

員榮醫院

常備藥品手冊



員榮醫院藥劑科編訂

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I. Antidotes in Poisoning

Acetylcysteine

Supply : Actein Effervescent® 愛克痰發泡錠 600mg/Cap (OACTEIN)
Flucil® 福喜顆粒 100mg/2.5g/pack (OFLUIM3)

Indications : Mucolytic, antidote of acetaminophen. (減少呼吸道粘膜分泌的粘稠性、蓄意或偶發之 ACETAMINOPHEN中毒之解毒劑。)

Usual dose : Acetaminophen overdose - Administer orally as a 5% solution, loading dose 140 mg/kg, then 70 mg/kg at 4 hrs intervals for a total of 17 doses. Mucolytic - 1 Cap qd-bid; or 1 pack tid.

Side effects : Vomiting, nausea, stomatitis, drowsiness, bronchospasm, irritation to the tracheal and bronchial tracts.

Pregnancy : Category B.

Note : Administer acetylcysteine immediately if ≤ 24 hrs have elapsed from the reported time of acetaminophen ingestion.

Atropine Sulfate

Supply : Atropine® 硫酸阿托品 1mg/ml/Amp (IATROPI)

Indications : Organophosphate poisoning, antispasmodic in GI disorders, bradyarrhythmia. (膽石症、幽門痙攣、胃酸過多、胃痙攣、有機磷化物、毛果芸香鹼中毒、診斷用散瞳、調節痙攣、乙醚等麻醉時之抑制支氣管分泌。)

Usual dose : Anticholinergic - 0.4-0.6mg IV, SC. Preanesthetic medication - 0.3-0.6mg, SC, IM or IV. Antidote of cholinesterase inhibitor - 2-4mg IV then 2mg, every 5-10min, IM, until muscarinic symptoms disappear or atropine toxicity appear.

Side effects : Tachycardia, increasing ocular tension, pupils dilatation, dry mouth, blurred vision, dysurea, headache, weakness, nausea, vomiting, restlessness, and rash.

Pregnancy : Category C.

Charcoal

Supply : Carbomix® 蓋抹滅 831mg/g 61.5g/Bot (OCARBOM)

Indications : Poisoning. (緊急治療藥物或化學品中毒之病人。)

Usual dose : PO 30-100g (1-2g/kg) then 0.5g/kg Q4H; when administered with sorbitol, the recommended dose is 4.3ml/kg of 70% sorbitol Q4H until charcoal stool is passed.

Children: Activated charcoal 1g/kg + 4.3ml/kg of 35% sorbitol

Side effects : Vomiting, constipation, diarrhea, stools will be black.

Flumazenil

Supply : Anexate® 安易醒 0.5mg/5ml/Amp (0.1 mg/ml) (IANEXAT)

Indications : Benzodiazepine overdose, reversal benzodiazepine sedation.

(用於麻醉及加護病房時回轉 Benzodiazepine 之中樞鎮靜作用。)

Usual dose : IV only. Benzodiazepine overdose – Initial 0.2 mg IV over 30 sec. A further dose of 0.3 mg over another 30 sec. Further doses of 0.5 mg over 30 sec. at 1 min intervals up to a cumulative dose of 3 mg. Reversal benzodiazepine sedation - Initial 0.2 mg administered over 15 sec. a further dose of 0.2 mg can be injected and repeated at 60 sec. intervals where necessary to a max. total dose of 1 mg.

Side effects : Dizziness, nausea, vomiting, headache, hyperventilation.

Pregnancy : Category C.

Leucovorin (Folinate)

Supply : Folina® 芙琳亞 15 mg/Tab (OFOLIN)

Indications : Cellular rescue from the adverse effects of high-dose methotrexate therapy. (超量使用葉酸拮抗劑時，消滅其毒性及抵消其作用、治療因斯潑盧營養缺乏、妊娠及其幼齡等引起之巨初紅血球性貧血。)

Usual dose : High-dose methotrexate-rescue dose: Initial: Oral, I.M., I.V.: 10- 15 mg/m²; start 24 hrs after beginning methotrexate infusion; continue every 6 hrs for 10 doses, until methotrexate level is <0.05 micromole/L. Do not administer orally in the presence of nausea or vomiting. Doses >25 mg should be administered parenterally.

Side effects : Occasional allergic reactions.

Pregnancy : Category C.

Naloxone

Supply : Narcan® 解麻 0.4mg/ml/Amp (INALOX)

Indications : Narcotic overdose. (麻醉藥品過量之解毒劑。)

Usual dose : Adults: IV, IM or SC 0.4-2 mg, may repeat IV at 2-3 minute intervals. Children: IV 0.01 mg/kg, give a subsequent dose 0.1 mg/kg if needed.

Side effects : Abrupt reversal of narcotic depression may result in nausea, vomiting, sweating, tachycardia, hypertension and tremulousness

Pregnancy : Category C.

Neostigmine

Supply : Vagostin® 安可健 0.5mg/ml/Amp (INEOSTI)

Indications : Antidote for nondepolarizing neuromuscular blockers, symptomatic control of myasthenia gravis. (腸管麻痺、筋無力症、血管痙攣性疾患、眼筋無力症。)

Usual dose : Antidote for nondepolarizing neuromuscular blockers

-Adults: 0.5-2 mg by slow IV injection, repeat as required; Children: 0.025-0.08 mg/kg/dose. Control of myasthenia gravis - IM or SC

0.5 mg, individualize subsequent doses. Children: 0.01-0.04 mg/kg/dose IM, IV or SC every 2-3 hrs as needed. Diagnosis of myasthenia gravis - Adults: IM 0.022 mg/kg; Children: IM 0.04 mg/kg.

Side effects : Bronchoconstriction, nausea, vomiting, salivation, stomach cramps, diarrhea, urge to urinate.

Pregnancy : Category C.

Pralidoxime Chloride

Supply : Pampara® 把母巴拉 500mg/25ml/Amp (25mg/ml) (IPAM)

Indications : Organophosphate poisoning, anticholinesterase drug overdose. (巴拉松 (parathion) 甲基巴拉松 (methyl parathion) 等有機磷劑、農藥中毒之解毒劑。)

Usual dose : Organophosphate poisoning - Adults: 1-2 g/dose IV, preferably in 100 ml of saline as a 15-30 mins infusion. After 1 hr, give a second dose of 1-2 g if muscle weakness is not relieved. Children: 25-50 mg/kg/dose. Anticholinesterase overdose - 1-2 g IV followed by increments of 250 mg every 5 minutes.

Side effects : Tachycardia, hypertension, dizziness, headache, rash, nausea.

Pregnancy : Category C.

Protamine Sulfate

Supply : 硫酸魚精蛋白 50mg/5ml/Amp (10 mg/ml) (IPROTA)

Indications : Heparin overdose. (中和過量的 heparin。)

Usual dose : Protamine 1mg neutralized 100 IU of heparin. In heparin overdose: it can be given as a loading of 25-50 mg by slow IV injection, with the rest of calculated dose over 8-16 hrs.

Side effects : Sudden fall in BP, bradycardia, dyspnea, nausea, vomiting.

Pregnancy : Category C.

II. Central Nervous System Drugs

1. Drugs Used for Relief of Pain

(1) Narcotic Analgesics

Fentanyl (管二)

Supply : 吩坦尼 0.1mg/2ml/Amp (0.05mg/ml) (IFENTA)

Indications : Pain, induction of anesthesia. (麻醉和麻醉前給藥、急性劇烈疼痛之緊急治療。)

Usual dose : Adult: Pre-medication for procedure: 50-100 mcg IM or slow IV over 1-2 min, 30-60 min prior to surgery. Adjunct to general anesthetic induction: 50-100 mcg slow IV, repeated at 2-3 min intervals until the desired effect is achieved. Adjunct to regional anesthesia: 50-100 mcg IM or slow IV 1-2 min. Post-OP pain: 50-100 mcg IM or slowly IV, may repeat in 1-2 hr as needed.

Side effects : SOB, troubled breathing, slow heartbeat, BP ↓, drowsiness.

Pregnancy : Category C (D if used for prolonged period or in high dose).

Lactation : Excreted in breast milk. (Usually compatible)

Storage : Injection - Protect from light.

Meperidine HCl (Demerol) (管二)

Supply : Pethidine® 鹽酸配西汀 50mg/ml/Amp (IPETHI)

Indications : Relief of moderate to severe pain, preoperative medication. (鎮痛。)

Usual dose : Pain relief - IM or SC. Adults: 50-150 mg q3-4h as necessary, Children: 1.1-1.75 mg/kg q3-4h as necessary. Preoperative medication – Adults: 50-100 mg IM or SC, 30-90 mins before beginning anesthesia. Children: 1.1-2.2 mg/kg IM or SC.

Side effects : Hypotension, tiredness, nausea, vomiting, constipation, dizziness, headache, nervousness, biliary spasm.

Pregnancy : Category B (D if used for prolonged period or in high dose).

Lactation : Excreted in breast milk. (Usually compatible)

Morphine HCl (管一)

Supply : 鹽酸嗎啡 10mg/ml/Amp (Morphine HCl) (IMORPHI)

Indications : Relief of moderate to severe pain. (鎮痛。)

Usual dose : Adults: SC: 5-15 mg Q 4hr; IV: 4-10 mg, dilute and inject slowly over a 2-3 min period. IV infusion 1-10 mg/hr, some patients with chronic pain may require a higher dosage. IM is painful and is not recommended. Children: PO: 0.3 mg/kg Q3-4 hr; IV: 0.05-0.2 mg/kg Q4hr; IV infusion 0.01-0.04 mg/kg/hr.

Side effects : Palpitation, hypotension, dizziness, nausea, vomiting,

constipation, dry mouth, weakness, respiratory depression.

Pregnancy : Category C (D if used for prolonged period or in high dose).

Lactation : Excreted in breast milk. (Usually compatible)

(2) Non-Narcotic Antipyretics and Analgesics

Acetaminophen

Supply : Paran® 理冒伯樂止痛錠 500mg/Tab (OACET03)

Anti-Phen® Syrup 安佳熱糖漿 24 mg/ml 60ml/Bot (OANTIPH)

Indications : Mild to moderate pain and fever. (退燒,止痛, 緩解頭痛,牙痛, 咽喉痛,關節痛,神經痛,肌肉酸痛,月經痛。)

Usual dose : Adults: 325-650 mg q4-6h, Max. 4 g/day;

Children: 10-15 mg/kg/dose q4h, do not exceed 5 doses in 24 hrs.

Side effects : Hemolytic anemia, neutropenia, leukopenia, rash, jaundice.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Usually compatible)

Propacetamol

Supply : Acetamol® 舒疼消熱 1g/Vial (IACETA)

Indications : Severe pains and fever. (在無法使用口服投藥方式時,用於疼痛或發燒之症狀治療。)

Usual dose : The usual dose is 1-2 g (equivalent to 0.5-1 gm acetaminophen) every 4-6 hours by intravenous infusion over 15 minutes. The maximum daily dose should not exceed 8 g. Pediatrics (neonates and children): 20 to 30 mg/kg up to 4 times daily, not exceeding a maximum daily dose of 120 mg/kg propacetamol (equivalent to a daily dose of 60 mg/kg of paracetamol).

Side effects : Dizziness (most common), rash

Pregnancy : Category B.

Note : 開瓶後應一次使用完畢,不得分次注射;調配後必須於30分中內使用;不可和其他藥物混合。

Sumakin® 舒麻肌 (OSUMAKI)

Supply : each Tab contains

Acetaminophen-----250mg

Chlorzoxazone-----150mg

Caffein-----25mg

Thiamine disulfide-----7.7mg

Indications : Pain, skeletal muscle spasm. (關節痛、肌肉痛、顏面神經痙攣、神經痛、關節周圍炎、捻挫打撲及其他有肌肉之痙攣、強直及疼痛等之諸症。)

Usual dose : 1 Tab tid.

Side effects : Skin rash, hypersensitivity.

Ultracet® 及通安 (管四) (OULTR)

Supply : each Tab contains

Tramadol-----37.5mg

Acetaminophen-----325mg

Indications : Moderate to severe pain. (使用非鴉片類止痛劑無效的中度至嚴重性疼痛。)

Usual dose : 1-2 Tab q4-6h, Max. 8Tab/day. ClCr < 30ml/min : increase the interval to every 12 hour, Max. 4 tablets per day.

Side effects : Dizziness, nausea, constipation, headache, somnolence.

Pregnancy : Category C.

(3) Nonsteroidal Anti-inflammatory Agents

Aceclofenac

Supply : Tonec® 痛停錠 100mg/Tab (OACECLO)

Indications : Relief of pain and inflammation in osteoarthritis, rheumatoid arthritis and ankylosing spondylitis. (治療退化性關節炎、類風濕性關節炎、僵直性脊椎炎所引起之疼痛及發炎症狀。)

Usual dose : PO 100mg bid.

Side effects : Most adverse events are mild and reversible and primarily involve the GI system.

Acemetacin

Supply : Aceo® 艾斯美特 60 mg/Cap (OACEMET)

Indications : Rheumatoid arthritis, osteoarthritis, ankylosing spondylitis. (風濕性關節炎、退化性關節炎(骨關節炎)、僵直性脊椎炎、痛風、肌肉炎、韌鞘炎、滑囊炎。)

Usual dose : 60-120 mg qd-tid.

Side effects : GI disturbance, rash, dizziness, headache.

Celecoxib

Supply : Celebrex® 希樂葆 200 mg/Cap (OCELEB2)

Indications : Osteoarthritis(OA), rheumatoid arthritis(RA), familial adenomatous polyposis(FAP), acute pain, primary dysmenorrhea. (緩解骨關節炎之症狀與徵兆，緩解成人類風濕性關節炎之症狀與徵兆，緩解成人急性疼痛及治療原發性經痛，緩解僵直性脊椎炎之症狀與徵兆。)

Usual dose : OA - 200 mg/day, qd-bid. RA - 100-200 mg bid.

FAP - 400 mg bid, take with food. acute pain, primary dysmenorrhea - 400 mg initially, then 200 mg bid.

Side effects : Headache, dyspepsia, abdominal cramps/pain, diarrhea, nausea.

Pregnancy : Category C.

Diclofenac

Supply : Cataflam® 克他服寧 25 mg/Tab (OCATAFL)
Valtafen® 抑疼炎栓劑 12.5 mg/Supp (EVOLTA)

Indications : Pain, rheumatoid arthritis, osteoarthritis. (緩解發炎及因發炎反應引起之疼痛。)

Usual dose : PO - 100-200 mg/day in divided doses.
Rectal - 0.5-2 mg/kg/day bid-tid.

Side effects : Epigastric pain, nausea, vomiting, diarrhea, dizziness, rash.

Pregnancy : Category B.

Lactation : Excreted in breast milk.

Etodolac

Supply : Etodolac® 炎立舒泰 200 mg/Cap (OLONIN)

Indications : Arthritis, analgesia. (類風濕性關節炎，骨關節炎，止痛。)

Usual dose : Arthritis - 300 mg bid-tid or 400-500 mg bid.

Analgesia - 200-400 mg q6-8h. Do not exceed 1200 mg/day.

Side effects : Dyspepsia, nausea, diarrhea, abd. distress/cramps, flatulence.

Pregnancy : Category C.

Ibuprofen

Supply : Purfen® 普服芬 400mg/Tab (OMOTRI)

Idofen® 舒抑痛 Oral Susp. 20 mg/ml 60ml/BT (OSCONIN)

Indications : Fever, pain, inflammatory diseases. (一般疼痛之緩解及解熱、關節炎輕度疼痛之緩解。)

Usual dose : Adults: 400mg PO Q4-6H; maximum recommended dose: 3200 mg daily; Children (6 months-12 yrs): 5-10 mg/kg/dose Q6-8H; maximum recommend dose 40 mg/kg/day.

Side effects : Nausea, dyspepsia, diarrhea, constipation, abdominal pain.

Pregnancy : Category C (Risk factor D if used in 3rd trimester).

Lactation : Excreted in breast milk. (Usually compatible)

Indomethacin

Supply : Indoy® 炎達益 25mg/Cap (OINDO)

Indications : 肌肉骨骼系統之炎症、疼痛、牙科手術後之腫脹。

Usual dose : 1 Cap bid-tid.

Side effects : Dizziness, rash, abdominal cramps, heartburn, indigestion.

Ketoprofen

Supply : Ketoprofen® 可多普洛菲 50mg/2ml/Amp (IKETOPR)

Indications : Mild-moderate pain, rheumatoid arthritis, osteoarthritis. (消炎、解熱、鎮痛，風濕性關節炎、骨關節炎、強硬性脊椎炎及痛風、腰酸背痛以及手術外傷後之疼痛。)

Usual dose : IM 50-100mg qd-bid.

Side effects : Shock, nausea, vomiting, Lyell syndrome, pain at injection site.

Ketorolac

Supply : Paindocine® 痛得息 30 mg/ml/Amp (IKETO00)

Indications : Moderately severe, acute pain. (短期(≤5天)使用於緩解無法口服病人之中重度急性疼痛，通常使用於手術後。)

Usual dose : Adults: PO: 10 mg Q4-6 hr PRN, to a maximum of 40 mg/day for 5 days (including IM/IV). IM or IV 30 mg or 60 mg (IM only) once, then 15-30 mg Q6 hr; Children: aged 1-18 years 1 mg/kg as a loading dose followed by 0.5 mg/kg Q6H for 48-72 hr.

Side effects : Headache, dizziness, drowsiness, nausea, diarrhea, dyspepsia, epigastric/GI pain, edema.

Pregnancy : Category C.

Lactation : Enters breast milk/ contraindicated.

Note : Ketorolac therapy is not to exceed 5 days.

Lysine acetylsalicylate

Supply : Lyacety® 解你疼 1g/Vial (含 Aspirin 500mg) (IASPEGI)

Indications : 對不能口服NSAID之成年病人強烈疼痛之短期治療、成人發燒症狀之緩解。

Usual dose : IV or IM 1-2 vial.

Side effects : Headache, rash, abdominal cramps, heartburn, indigestion.

Mefenamic Acid

Supply : Johnstal® 祥疏痛 500mg/Tab (OPONS)

Indications : Pain (≥14y/o), dysmenorrhea. (神經痛、肌肉痛、頭痛、齒痛、月經痛、分娩後之疼痛、手術後之疼痛。)

Usual dose : 500 mg, then 250 mg q6h, usually not to exceed 1 week.

Side effects : Abdominal cramps, dizziness, rash, hemolytic anemia.

Pregnancy : Category C (D if used for prolonged periods, or near term.)

Lactation : Excreted in breast milk. (Usually compatible)

Meloxicam

Supply : Mobic® 骨敏捷 7.5 mg/Tab (OMOBIC)

Indications : Rheumatoid arthritis, osteoarthritis, ankylosing spondylitis.
(類風濕性關節炎、骨關節炎及僵直性脊椎炎之症狀治療。)

Usual dose : 7.5 mg orally once a day, Max. 15 mg orally once a day.

Side effects : GI disturbances, pruritus, skin rash, headache, edema, anemia.

Pregnancy : Category C.

(4) Agents for Gout

Allopurinol

Supply : Urinol® 威寧疼 100 mg/Tab (OALLOP)

Indications : Gout, hyperuricemia associated with malignancy. (痛風症、痛風性關節炎、尿酸結石、癌症或經化學治療產生之高尿酸血症。)

Usual dose : Mild gout - 200-300 mg/day. Moderately severe gout - 400-600 mg/day. Divide doses that are > 300 mg. Max. 800 mg/day.

Renal impairment :	Ccr (ml/min)	Dose
	60	200 mg/day
	40	150 mg/day
	20	100 mg/day
	10	100 mg on alternate days
	<10	100 mg 3 times/week

Side effects : Rash, Stevens-Johnson syndrome, drowsiness, nausea, vomiting, diarrhea, chills, fever, ↑ alkaline phosphatase.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Note : 1. May increase the effects of Immuran, 6-MP.

2. Maintaining a high fluid intake and a neutral or alkaline urine are recommended.

Benzbromarone

Supply : Nogout® 杏定痛 100 mg/Tab (ONARCAR)

Indications : Hyperuricemia associated with chronic gout. (痛風、高尿酸血症。)

Usual dose : Oral: Initial: 25 to 50 mg once daily; maintenance dose: 50 mg 1 to 3 times. Drink plenty of water (at least 1.5 to 2 liters daily at therapy initiation).

Side effects : Diarrhea, skin rash, ↑ SGOT, ↑ SGTP.

Note : Should not be used to treat acute gouty attacks.

Colchicine

Supply : 秋水仙鹼片 0.5 mg/Tab (OCOLC02)

Indications : Gout. (痛風。)

Usual dose : Flare treatment: Initial: 1.2 mg at the first sign of flare,

followed in 1 hour with a single dose of 0.6 mg (maximum: 1.8 mg within 1 hour); Gout prophylaxis: 0.6 mg orally once or twice daily, MAX 1.2 mg/day; Familial Mediterranean fever: 1.2 to 2.4 mg orally daily; increase or decrease in increments of 0.3 mg/day.

Side effects : GI disturbance, nausea, vomiting, diarrhea, alopecia, anorexia, bone marrow suppression, hepatotoxicity, rash.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Febuxostat

Supply : Feburic® 福避痛 80mg/Tab (OFEBU00)

Indications : Chronic management of hyperuricemia in patients with gout. (治療慢性痛風患者的高尿酸血症，不建議用於無症狀的高尿酸血症者。)

Usual dose : Orally, start at 40mg once daily; may be increased to 80 mg once daily if serum uric acid levels of less than 6 mg/dL are not achieved after 2 weeks.

Side effects : Liver function abnormalities (5% to 7%), nausea, arthralgia and rash.

(5) Agents for Migraine

Ergoton® 易克痛 (OCAFER)

Supply : each Tab contains

Ergotamine-----1 mg

Caffeine-----100 mg

Indications : Migraine. (血管性頭痛、如偏頭痛、組織胺性頭痛。)

Usual dose : 1 Tab at the start of the attack, repeated after 30-60 minutes if necessary. Max. 6 Tab/24hrs or 10 Tab/week.

Side effects : Nausea, vomiting, numbness and tingling of fingers, tachycardia or bradycardia.

Pregnancy : Category X.

Lactation : Excreted in breast milk. (Contraindicated)

Sumatriptan

Supply : Imigran® 英明格速溶錠 50mg/Tab (OIMIGRA)

Indications : 有先兆或無先兆偏頭痛發作之急性緩解。本藥僅適用於有明確診斷之偏頭痛。

Usual dose : 1-2 Tab daily.

Pregnancy : Category C.

Side effects : Paresthesia, dizziness, warm/hot sensation, chest discomfort/pressure/tightness, jaw or neck tightness.

2. Psychopharmacologic Drugs

(1) Anxiolytics, Sedatives and Hypnotics

(a) Benzodiazepines

Side effects : Somnolence, dizziness, headache, dyspepsia, constipation, diarrhea, urticaria, respiratory depression, tachycardia, bradycardia.

Alprazolam (管四)

Supply : Alpraline® 安柏寧 0.5 mg/Tab (OALPRAZ)

Indications : Anxiety, panic disorder. (焦慮狀態。)

Usual dose : Anxiety disorder - initial 0.25-0.5 mg tid, Max. 4 mg/day.

Panic disorder - 0.5 mg tid, Max. dose 10 mg/day.

Pregnancy : Category D.

Lactation : Excreted in breast milk. (May be of concern)

Note : Reduce gradually when terminating or decreasing daily dose.

Bromazepam (管四)

Supply : Lexotan® 立舒定 1.5mg/Tab (OLEXOTA)

Indications : Symptomatic treatment of anxiety. (焦慮狀態。)

Usual dose : 1.5-3 mg TID for outpatient therapy; 6-12 mg BID to TID for severe cases.

Brotizolam (管四)

Supply : Lendormin® 戀多眠 0.25 mg/Tab (OLENDOR)

Indications : Insomnia (short-term treatment). (失眠症的治療。)

Usual dose : Adults: Oral: 0.25 mg at bedtime. The suggested dose for elderly and debilitated patients is 0.125 mg.

Pregnancy : Not recommended.

Lactation : Not recommended.

Diazepam (管四)

Supply : Diazepam® 煩靜 2 mg/Tab (ODIAZ)

Dianlin® 得安寧 10 mg/2ml/Amp (5 mg/ml) (IDIAZEP)

Indications : Anxiety, convulsive disorders, muscle spasm, insomnia. (焦慮狀態、失眠、肌肉痙攣、癲癇重積狀態。)

Usual dose : Antianxiety - PO: 2-10 mg bid-qid; IM or IV: 2-10 mg, repeat in 3-4 hrs if necessary. Acute alcohol withdrawal - PO: 10 mg tid-qid during the first 24 hrs, reduce to 5 mg tid-qid; IM or IV: 10 mg initially, followed by 5-10 mg in 3-4 hrs. Anticonvulsant - PO: 2-10 mg bid-qid; IM or IV: 5-10 mg initially, repeated as needed, Max. dose 30 mg. Muscle spasm - PO: 2-10 mg tid-qid; IM or IV: 5-10 mg initially, then 5-10 mg in 3-4 hrs.

Side effects : Hypotension, drowsiness, ataxia, rash, change in libido, phlebitis, apnea, bradycardia.

Pregnancy : Category D.

Lactation : Excreted in breast milk. (May be of concern)

Estazolam (管四)

Supply : Eszo® 艾斯樂錠 2 mg/Tab (OESZO)

Indications : Insomnia. (失眠。)

Usual dose : Insomnia: 1-4mg at bedtime. Premedication: Preoperative night: a single dose of 1-2mg at bedtime. Preoperation: a single dose of 2-4mg. Smaller or older, debilitated patients: 0.5mg initially.

Pregnancy : Category X.

Fludiazepam (管四)

Supply : Era® 易舒 0.25 mg/Tab (OFLUDIA)

Indications : Psychosomatic disorders, autonomic imbalance. (焦慮狀態、失眠、肌肉痙攣。)

Usual dose : 1 Tab tid.

Flunitrazepam (管三)

Supply : Modipanol® 美得眠 2 mg/Tab (OFM2)

Indications : Insomnia. (失眠。)

Usual dose : Insomnia - 0.5-2 mg hs.

Pregnancy : Category D.

Lactation : Excreted in breast milk.

Lorazepam (管四)

Supply : Lorazin® 樂力靜 0.5 mg/Tab (OLORAZE)

Anxicam® 安心平 2 mg/ml/Amp (IANXIC)

Indications : Anxiety, insomnia. (焦慮狀態。)

Usual dose : Anxiety - Initial: 2-3 mg/day bid-tid. Insomnia - 2-4 mg hs. IM - 0.05 mg/kg up to a maximum of 4 mg. IV - initial 2 mg or 0.044 mg/kg, as high as 0.05 mg/kg up to a total of 4 mg may be given.

Pregnancy : Category D.

Lactation : Excreted in breast milk. (May be of concern)

Oxazolam (管四)

Supply : Secorin® 益可寧 10 mg/Tab (OSEREN)

Indications : Anxiety. (焦慮狀態。)

Usual dose : 10-20 mg tid.

(b) Miscellaneous

Buspirone

Supply : Sepirone® 怡必隆 5 mg/Tab (OBUSPIR)

Indications : Anxiety. (焦慮狀態。)

Usual dose : PO 5 mg tid, increase the dosage 5 mg/day at intervals of 2-3 days as needed. Max. 60 mg/day.

Side effects : Dizziness, drowsiness, nausea, headache, nervousness.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (May be of concern)

Zolpidem (管四)

Supply : Stilnox® 使蒂諾斯 10 mg/Tab (OSTILNO)

Indications : Insomnia. (失眠症。)

Usual dose : 5-10 mg at bedtime.

Side effects : Daytime drowsiness, dizziness, headache, nausea, diarrhea, irritability, muscle tremor, dyspepsia.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Usually compatible)

Zopiclone (管四)

Supply : Zolon® 樂比克 7.5 mg/Tab (OZOPIC)

Indications : Insomnia. (失眠症。)

Usual dose : Sedative/hypnotic - 7.5 mg at bedtime.

Side effects : Dry mouth, bitter taste, residual sedation, psychomotor impairment.

(2) Antipsychotics

Aripiprazole

Supply : Abimay® 安怡美 20 mg/Tab (OARIPI)

Indications : Schizophrenia, Acute manic and mixed episodes associated with Bipolar I disorder. (成人和青少年(13至17歲)的思覺失調症。)

Usual dose : 10-15 mg orally once daily without regard to meals; may be increased to a maximum of 30 mg once daily. Dosage titration should not be more frequent than every 2 weeks.

Side effects : Headache, agitation, insomnia, anxiety, lightheadedness, weight gain, nausea, dyspepsia, constipation, vomiting, blurred vision.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Contraindicated)

Clotiapine

Supply : Etumine® 意妥明錠 40mg/Tab (OCLOTI)

Indications : Acute schizophrenia or exacerbations of chronic schizophrenia; Manic-depressive psychosis, endogeneous and reactive manic phase of manic-depressive illness; sleep disorders. (精神病狀態。)

Usual dose : Psychosis: 120-200 mg (initial), 20-160 mg QD or TID (maintenance). Neurosis: 20-120 mg QD or TID. Sleep disorders: 20-40 mg before retiring.

Side effects : Common adverse effects include fatigue, drowsiness, tremor, constipation, tardive dyskinesia, extrapyramidal effects and neuroleptic malignant syndrome.

Haloperidol

Supply : Halosten® 豁樂舒靜 1 mg/Tab (OHALOS)

Halin® 哈寧 5mg/Tab (OHALIN)

Binin-U® 易寧優 5 mg/ml/Amp (IHALDO)

Haldomin® 煩樂平 2mg/ml 15ml/Bot (OHALDOM)

Indications : Agitation, psychosis, aggressive and agitated behavior. (躁病、精神病狀態、嘔吐、噁心、攻擊性與破壞性之行為障礙、舞蹈病。)

Usual dose : PO - 0.5-5 mg bid-tid initially, Max.100 mg/day.

IM - 2-5 mg for prompt control of the acutely agitated patients.

Side effects : Extrapyramidal effects, akathisia, dementia, leukopenia, torsades de pointes, weight gain, constipation, neuroleptic malignant syndrome.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (May be of concern)

Jexit® 欣解 (ODEANX2)

Supply : each Tab contains

Flupentixol-----0.5mg

Melitracen-----10mg

Indications : 焦慮症、憂鬱症。

Usual dose : 1 Tab bid.

Side effects : Insomnia.

Lithium Carbonate

Supply : Ligilin® 鋰齊寧 300 mg/Cap (OLITHIU)

Indications : Mania. (躁病、預防躁鬱病。)

Usual dose : Acute mania - 600 mg tid, serum level range 1-1.5 mEq/L.

Long-term use - 300 mg tid-qid, the desirable serum levels are 0.6-1.2 mEq/L.

Side effects : Polydipsia, polyuria, tremor, rash, arrhythmia, drowsiness.

Pregnancy : Category D.

Lactation : Excreted in breast milk. (Contraindicated)

Quetiapine

Supply : Limus® 輔思妥 25mg/Tab (OSERO25)

Calm-EZ® 康緒舒 100 mg/Tab (OQUETI)

Indications : Psychotic disorders. (思覺失調症，雙極性疾患之躁症發作。)

Usual dose : Initial 25 mg bid, with increases in increments of 25-50 mg bid-tid on the second and third day, a target dose 300-400 mg daily divided in 2 or 3 doses. Max. 800 mg/day.

Side effects : Postural hypotension, somnolence, dyspepsia, dizziness, tachycardia, constipation, weight gain.

Pregnancy : Category C.

Risperidone

Supply : Risperidone® 瑞波 2 mg/Tab (ORISPER)

Indications : Schizophrenia or other psychotic disorders. (思覺失調症之相關症狀、雙極性疾患之躁症發作、治療失智症病人具嚴重攻擊性、躁動或精神病症狀、行為障礙和其他破壞性行為障礙、兒童及青少年自閉症之躁動症狀。)

Usual dose : Initial 1 mg bid, with increase in increments of 1 mg twice daily on the second and third day, as tolerated, to a target dose of 3 mg bid. Dose above 6 mg/day are not recommended.

Side effects : Insomnia, agitation, anxiety, extrapyramidal symptoms, headache, tachycardia, sedation, weight gain, constipation.

Pregnancy : Category C.

Sulpiride

Supply : Sulmatyl® 思邁蒂 50 mg/Tab (OSULPIR)

Indications : Schizophrenia, anti-gastrin secretion. (精神病狀態、消化性潰瘍。)

Usual dose : Schizophrenia - 200-400 mg bid, Max. 3200 mg/day.

Antidepressant - 200-1000 mg/day. Duodenal ulcer - 50-100 mg tid.

Side effects : Parkinsonism, dry mouth, nausea, constipation, galactorrhea.

(3) Antidepressants

Citalopram (selective serotonin reuptake inhibitor)

Supply : Sitalo® 賽達樂 20 mg/Tab (OCITALO)

Indications : Depression. (鬱症之治療及預防復發、恐慌症。)

Usual dose : Initial - 20 mg once daily, dose may up to 40 mg/day.

Side effects : Insomnia, somnolence, nausea, dry mouth

Pregnancy : Category C.

Note : Not be used in combination with an MAOI or within 14 days of discontinuing treatment with an MAOI.

Duloxetine (serotonin and norepinephrine reuptake inhibitor)

Supply : Lexinping® 樂心平 30mg/Cap (OLEXINP)

Indications : For the treatment of Major depressive disorder, Diabetic peripheral neuropathy – Pain, Generalized anxiety disorder, fibromyalgia. (用於治療重鬱症、糖尿病週邊神經痛、廣泛性焦慮症、纖維肌痛。)

Usual dose : Initial: 40-60 mg/day; dose may be divided, maintenance: 60 mg once daily.

Side effects : Nausea, dry mouth, constipation, diarrhea, appetite decreased, dizziness, somnolence, headache, insomnia.

Pregnancy : Category C.

Note : Capsule should be swallowed whole; do not break open or crush.

Escitalopram (selective serotonin reuptake inhibitor)

Supply : Lepax® 得緒安 10mg/Tab (OLEPAX)

Indications : Major depression, Generalized anxiety disorder, Panic disorder with or without agoraphobia, Social anxiety disorder, Obsessive compulsive disorder. (鬱症之治療及預防復發，恐慌症、社交焦慮症、泛焦慮症及強迫症之治療。)

Usual dose : Usual dose 10 mg once daily, with or without food. Maximum dose 20 mg/day. In the elderly (>65 years), in panic disorder patients and in patients with reduced hepatic function an initial dose of 5 mg/day is recommended.

Side effects : Headache, somnolence, insomnia, nausea, ejaculation disorder, diarrhea, sweating increased, constipation, xerostomia.

Pregnancy : Category C.

Imipramine (tricyclic antidepressant)

Supply : Fronil® 福樂你 25 mg/Tab (OTOFAN)

Indications : Depression, childhood enuresis. (慮鬱病、夜尿。)

Usual dose : Depression-hospitalized pt's: Initially 100-200 mg/day in divided doses, may be increases to 250-300 mg/day; outpatients: initially 75-150 mg/day, do not exceed 200 mg/day maintenance 50-150 mg/day. Childhood enuresis(≥ 6 years) - Initially 25 mg/day 1 hr before bedtime, may increase up to 50 mg/night (< 12 y/o), 75 mg/night (> 12 y/o), do not exceed 2.5 mg/kg/day.

Side effects : Dizziness, drowsiness, dry mouth, headache, nausea, increased appetite, unpleasant taste, postural hypotension.

Pregnancy : Category D.

Lactation : Excreted in breast milk.(May be of concern)

Mirtazapine (tetracyclic antidepressant)**Supply** : Remeron® 樂活優口溶錠 30 mg/Tab (OREME3)**Indications** : Depression. (鬱症。)**Usual dose** : Starting dose - 15 mg/day, max. 45 mg/day. Do not change dose at intervals of <1 or 2 weeks.**Side effects** : Somnolence, dry mouth, constipation, increased appetite, weight gain, drowsiness, asthenia.**Pregnancy** : Category C.**Note** : MAOI should be discontinued at least 14 days before initiating mirtazapine therapy.**Paroxetine** (selective serotonin reuptake inhibitor)**Supply** : Setine® 除憂定 20 mg/Tab (OSETIN)**Indications** : Depression, obsessive compulsive disorder, OCD, panic disorder. (各種類型鬱症及鬱症伴隨焦慮症之症狀治療及預防復發、強迫症之症狀治療、恐慌症之症狀治療及預防復發、社交恐懼症(社交焦慮症)之治療、泛焦慮症之症狀治療及預防復發(GAD)、創傷後壓力症候群之治療(PTSD)。)**Usual dose** : Major depression: 20-50 mg PO QD; initial doses of 10 mg, with a daily maximum of 40 mg are recommended in severe renal insufficiency, liver disease, and in the elderly or debilitated.Obsessive compulsive disorder or panic disorder: 40 mg once daily.**Side effects** : Headache, asthenia, somnolence, dizziness, dry mouth, insomnia, nausea.**Pregnancy** : Category C.**Lactation** : Excreted in breast milk. (May be of concern)**Sertraline** (selective serotonin reuptake inhibitor)**Supply** : Kinloft® 抗憂服 50 mg/Tab (OSERTRA)

Purtraline® 克憂寧 50mg/Tab (OSERTR2)

Indications : Depression, obsessive compulsive disorder, panic disorder. (鬱症、強迫症、恐慌症、創傷後壓力症候群、社交恐懼症。)**Usual dose** : Initial 50 mg qd, Max. 200 mg/day.**Side effects** : Headache, insomnia, somnolence, fatigue, nausea, diarrhea, rash, dizziness.**Pregnancy** : Category C.**Lactation** : Excreted in breast milk. (May be of concern)**Note** : Do not use in combination with MAOI or within 14 days of discontinuing treatment.**Trazodone****Supply** : Mesyrel® 美舒鬱 25 mg/Tab (OMESYRE)**Indications** : Depression. (治療各種型態之抑鬱症。)**Usual dose** : Initial 150 mg/day, may be increased by 50 mg/day q3-4 day. For outpatients - Max. 400 mg/day, for inpatients - Max. 600

mg/day.

Side effects : Hypotension, dizziness, drowsiness, palpitation, blurred vision, dry mouth.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (May be of concern)

Venlafaxine HCl

Supply : Calmdown® 康緒平 37.5mg/Cap (OVENLAF)

Indications : Depression, anxiety. (鬱症、泛焦慮症、社交焦慮症、恐慌症。)

Usual dose : PO, 75-225 mg/day bid-tid, titrate at 4 day intervals. Max. 225 mg/day.

Side effects : Headache, insomnia, dizziness, dry mouth, nausea, constipation.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (May be of concern)

(4) Cholinesterase Inhibitors

Donepezil

Supply : Aricept® 愛憶欣 5 mg/Tab (OARICE5)

Aricept® 愛憶欣 10 mg/Tab (OARICE)

Indications : Mild to moderate dementia of the Alzheimer's disease. (阿滋海默症。)

Usual dose : initial 5 mg once daily, may increase to 10 mg/day.

Side effects : Headache, insomnia, dizziness, pain, nausea, diarrhea

Pregnancy : Category C.

Rivastigmine

Supply : Exelon® 憶思能 1.5 mg/Cap (OEXELON)

Exelon® 憶思能 4.5 mg/Cap (OEXELO4)

Exelon® 憶思能穿皮貼片 4.6 mg/24hr/Patch (EEXELON)

Rivast® 理曼提 2mg/ml 120ml/Bot (ORIVAST)

Indications : Mild to moderate dementia of the Alzheimer's disease. (輕度至中度阿滋海默氏病之癡呆(失智)症。)

Usual dose : PO: Initially 1.5mg BID then titrated to 6-12mg daily; do not exceed 12 mg/day. Patch: Initial: 4.6 mg/24 hours; if well tolerated, may be increased (after at least 4 weeks) to 9.5 mg/24 hours. Apply transdermal patch to upper or lower back (alternatively, may apply to upper arm or chest).

Side effects : Headache, insomnia, dizziness, nausea, vomiting, diarrhea, abdominal pain, anorexia

Pregnancy : Category B.

(5) Central Nervous Systemic Stimulants

Methylphenidate (管三)

Supply : Apo-Methylphenidate® 安保美喜 10 mg/Tab (OAPOMPH)

Indications : Attention deficit disorders, narcolepsy. (過動兒症候群，發作性嗜睡症。)

Usual dose : Attention deficit disorders - Children \geq 6years: 5 mg bid, increments 5-10 mg weekly, Max. 60 mg/day. Narcolepsy - individualize dosage, 10-30 mg/day in 2-3 divided doses, Max. 60 mg/day.

Side effects : Dizziness, anorexia, insomnia, restlessness, vertigo, behavior disturbances, growth suppression, rash.

Pregnancy : Category C.

Lactation : Excreted in breast milk.

Note : Take the last dose before 6pm.

(6) Miscellaneous

Dihydroergotoxine Mesylate

Supply : Hodrin® 好如臨 1.5 mg/Tab (OSCAMIN)

Indications : Aged-related mental capacity decline. (老人痴呆之輔助治療。)

Usual dose : 1 mg tid, may be up to 12 mg/day.

Side effects : Ergotism, bradycardia, porphyria, nausea, nasal stuffiness.

Flunarizine HCl

Supply : Sufuni® 賜福您 5 mg/Cap (OSIBELI)

Indications : Migraine headache, peripheral vascular disease, vertigo. (噁心、眩暈、迷路障礙、暈動病、末梢血管循環障礙。)

Usual dose : Migraine headache prophylaxis, peripheral vascular disease - 5-10 mg/day. Vertigo - 20 mg tid.

Side effects : Sedation, drowsiness, extrapyramidal reactions, weight gain.

Memantine

Supply : Witgen® 威智錠 10mg/Tab (OWITGEN)

Indications : Alzheimer's disease (Moderate to Severe). (治療中重度及重度阿滋海默症。)

Usual dose : Initial, 5 mg orally once daily; increase dose at minimum 1 week intervals in 5 mg increments to 10 mg/day (5 mg twice daily), 15 mg/day (5 mg and 10 mg in separate doses), and 20 mg/day (10 mg twice daily); The maximum daily dose is 20 mg daily.

Side effects : Dizziness (most common), headache, confusion, somnolence, constipation, vomiting, cough

Pregnancy : Category B.

Nicotine

Supply : Smokfree Nicotine TDDS No.15® 淨菸經皮吸收戒菸貼片
31.2 mg/15cm²/patch 7patches/Box (ESMOK3)

Indications : Adjunct to smoking cessation. (幫助戒菸。)

Usual dose : First 2-8 weeks: 15 cm²/day. Next 2-4 weeks: 10 cm²/day.

Side effects : Erythema, pruritus, burning at the application site.

Pregnancy : Category D.

Piracetam

Supply : Rofew® 諾復智 200 mg/ml 60ml/Bot (IPIRAC)

Piracetam® 派卡登 200 mg/ml 200ml/Bot (OPIRACE)

Nootropil® 腦寶 1200 mg/Tab (ONOOPOL)

Indications : Cerebrovascular insufficiencies, age-associated intelligence disturbance, cortical myoclonus. (對腦血管障礙及老化引起之智力障礙可能有效，治療皮質性陣發性抽搐。)

Usual dose : Orally, age-associated cognitive impairment: 1.2~2.4 g daily.

Cortical myoclonus: 7.2 g daily in 2 or 3 divided doses, increasing by 4.8 g daily every 3 or 4 days up to a maximum of 24 g daily.

ClCr 50 ~ 79 ml/min: 正常劑量的2/3，每日分二到三次服用；

ClCr 30~ 49 ml/min: 正常劑量的1/3，每日分二次服用；

ClCr 20-30 ml/min: 正常劑量的1/6，每日一次；

ClCr<20 ml/min: 禁用。

Side effects : Insomnia, somnolence, weight gain, hyperkinesia, nervousness, and depression.

3. Neurologic Drugs

(1) Anticonvulsants

Acetazolamide

Supply : 乙醯胺基硫唑啞 250 mg/Tab (OACET01)

Indications : Epilepsy, glaucoma, edema. (青光眼及下列疾患之輔助治療：水腫、癲癇。)

Usual dose : Antiglaucoma: 0.25-1.5g/day in divided doses.

Anticonvulsion: 8-30 mg/kg/day in divided doses; maximum daily

dose: 1.5 g. Prophylaxis of mountain sickness: 250mg BID-TID prior

to ascent. Diuresis: 250-375 mg QD. Rapid tolerance to acetazolamide diuresis develops when used on daily basis. To obtain maximal diuretic effect, an alternate day dosing is recommended.

In renal impairment: ClCr (ml/min)>50 Q6H;10-50 Q12H;<10 Not recommended.

Pediatric Dosage: antiglaucoma: 8-30 mg/kg/day, anticonvulsion: as adults dose.

Side effects: Nausea, vomiting, abdominal pain, diarrhea or constipation,

thirst, dizziness, hyperkalemia.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Carbamazepine

Supply : Tegretol® CR 癲通長效 200 mg/Tab (OTEGCR)

Indications : Epilepsy, trigeminal neuralgia, bipolar disorder. (癲癇症、三叉神經痛、腎原性尿崩症、雙極性疾患、原發性舌咽神經痛。)

Usual dose : Epilepsy: initial dose 100-200 mg, 1-2 times daily, gradually increased of 200 mg/day to a usual maintenance dose of 0.8 to 1.2 g daily in 2-4 divided doses up to 1.6 g/day. Trigeminal neuralgia: initial dose 100 mg BID, increased by 200 mg daily up to 1.2 g daily, usual maintenance dose 400-800 mg daily in 2-4 divided doses. Tegretol controlled release Tab can be divided into two parts but could not be crushed. For shifting from conventional tablet to controlled release form, increasing of 10-20% dose is recommended.

Side effects : Dizziness, ataxia, drowsiness, nausea, vomiting, agitation, tremor.

Pregnancy : Category D.

Lactation : Excreted in breast milk. (Usually compatible)

Note : The effects may be ↑ by INAH, Danazol, Verapamil, Macrolides.

Clonazepam (管四)

Supply : Clonopam® 克癲平 0.5 mg/Tab (OCLON05)

Clonopam® 克癲平 2 mg/Tab (OCLONA2)

Indications : Petit mal variant, akinetic and myoclonic seizures. (癲癇。)

Usual dose : Adults: initial dose 1.5 mg/day divided into 3 doses, followed by increased of 0.5-1.0 mg/day every 3 day until seizures control is achieved, maintenance dosage should not exceed 20 mg daily, maximum dose: 20 mg/day.

Children: initial dose 0.05 mg/kg/day divided into 2-3 doses, may be increased of 0.5 mg every 3 day, maintenance dosage should not exceeded 0.2 mg/kg/day

Side effects : Drowsiness, fatigue, headache, rash, tachycardia, dry mouth, dysarthria, blurred vision.

Pregnancy : Category D.

Lactation : Excreted in breast milk. (May be of concern)

Diazepam see page 11

Gabapentin

Supply : Neurontin® 鎮頑癲 100 mg/Cap (ONEURO)

Indications : Epilepsy, chronic pain. (治療成人及三歲以上兒童局部癲癇發作之輔助療法，帶狀疱疹後神經痛。)

Usual dose : 900-3600 mg/day in 3 divided doses. Post-herpetic neuralgia: 300mg on Day 1, 300mg BID on Day2, 300mg TID on Day 3; may increase to 1800 mg/day (divided into 3 doses).

Dosage adjustment in renal impairment:

ClCr > 60ml/min : 400 mg TID;

ClCr 30-59ml/min : 300 mg BID;

ClCr 15-29ml/min : 300 mg QD;

ClCr < 15 : 300mg Q2D;

hemodialysis : 200-300 mg after dialysis.

Side effects : Peripheral edema, myalgia, somnolence, fatigue, dizziness, ataxia, nystagmus, weight gain, skin rash, blurred vision, diplopia, mood changes, tremor, hyperactive behavior, No interactions with other anticonvulsants have been reported.

Pregnancy : Category C.

L.A.® 樂安 (OLA)

Supply : each Tab contains

Phenytoin-----50mg

Phenobarbital-----20 mg

Indications : Seizures. (真性癲癇 (尤其是癲癇大發作)、症候性癲癇、乍克森氏癲癇、精神分裂的發作、其他痙攣性之發作。)

Usual dose : 1 Tab tid.

Side effects : Same as phenytoin and phenobarbital.

Lamotrigine

Supply : Lamictal® 樂命達 50 mg/Tab (OLAMICT)

Indications : Adjunctive therapy in partial/secondary generalized seizures.

(癲癇(泛發性強直陣攣性發作及簡單性或複雜性局部發作)成人與12歲

以上兒童之單獨用藥治療；成人與2歲以上兒童之輔助性治療；

LENNOX-GASTAUT SYNDROME徵候群之治療。處於明顯鬱期之雙極性疾患情感症狀之治療，有明顯鬱期或鬱，躁期循環之雙極性疾患之情感症狀之預防。)

Usual dose : Adults and children (>16 yrs) receiving 200-500 mg/day in two divided doses, up to 700 mg/day have been used in some cases. 100-150 mg/day are used with concomitant valproic acid.

Side effects : Dizziness, diplopia, somnolence, headache, ataxia, nausea, blurred vision, rhinitis, pharyngitis, rash.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (May be of concern)

Note: The drug is not approved for use in patients below 16 of age, due to higher incidence of severe life-threatening skin rash than in adult.

Levetiracetam

Supply : Nobelin® 意必寧 500mg/Tab (OKEPP)

Indications : Adjunctive therapy in the treatment of partial seizures. (十六歲以上病患之局部癲癇發作(併有或不併有次發性全身發作)之單獨治療。四歲以上孩童或成人病患之局部癲癇發作(併有或不併有次發性全身發作)，十二歲以上青少年與成人病患之肌抽躍性癲癇發作，以及十六歲以上青少年與成人患有體質性泛發性癲癇的原發性泛發性強直陣攣發作之輔助治療。)

Usual dose : Pediatrics, 4-15 years: 10 mg/kg/dose twice daily, may increase every 2 weeks by 10 mg/kg/dose to a maximum of 30 mg/kg/dose twice daily. Not FDA approved in patients below the age of 4 years. Adults: initial, 500 mg twice daily, MAX 1500 mg twice daily.

Side effects : Somnolence, headache, asthenia, dizziness, depression, vomiting, anorexia.

Pregnancy : Category C.

Oxcarbazepine

Supply : Trileptal® 除癲達 300mg/Tab (OTRILE)

Indications : As monotherapy or adjunctive therapy in the treatment of partial seizure in adults and child with epilepsy. (成人局部癲癇發作之單一或輔助治療，大於一個月孩童癲癇局部發作之輔助治療。)

Usual dose : Children>3 yrs: Initiated dose 8~10mg/kg/ day given in 2 divided doses, increased by 10mg/kg/ day at weekly interval. Adult: 600mg as initiated dose given in 2 divided doses, increased by 600mg/ day at weekly interval.

Side effects : Dizziness, headache, somnolence, nausea, vomiting, fatigue (very common, >10%), hyponatremia (common, >1%)

Pregnancy : Category C.

Lactation : Avoided.

Phenytoin

Supply : Dilantin® 癲能停 100 mg/Cap (ODILANT)

Phenytoin® 苯乙內醯 100 mg/Tab (ODILAN)

Aleviatin® 阿雷彼阿慶 250mg/5ml/Amp (IALEVI)

Indications : Status epilepticus of grand mal type, prevention of seizures following head trauma/neurosurgery, ventricular arrhythmias. (大發作及局部發作形癲癇，預防及治療神經外科手術所引起之癲癇發作。)

Usual dose : Grand mal and psychomotor seizure: Adults: PO, initial dose 100mg TID, increase dosage to a maximum of 600 mg/day, usual maintenance dose: 300-400 mg daily; IV loading dose: 15-20 mg/kg, given at a rate not exceeding 50 mg/min. Children: PO, initial dose 5 mg/kg/day in 2-3 divided dose, maintenance dose 4-8 mg/kg/day; IV, may be given 15-20 mg/kg, at a rate not exceeding 1-3 mg/kg/min. Cardiac arrhythmias: IV, usual dose 3.5-5 mg/kg, given at

a rate not more than 50 mg/min, electrocardiographic monitoring is recommended.

Side effects : Nystagmus, ataxia, drug fever, GI discomfort, gingival hyperplasia, rash, hepatotoxicity.

Pregnancy : Category D.

Lactation : Excreted in breast milk. (Usually compatible)

Pregabalin

Supply : Lyrica® 利瑞卡 75mg/Cap (OLYRICA)

Indications : Management of postherpetic neuralgia, Adjunctive therapy for adult patients with partial onset seizures, Management of fibromyalgia, Management of neuropathic pain associated with diabetic peripheral neuropathy. (帶狀泡疹後神經痛。成人局部癲癇的輔助治療。纖維肌痛(fibromyalgia)。糖尿病周邊神經病變引起的神經性疼痛。脊髓損傷所引起的神經性疼痛。)

Usual dose : 1. Neuropathic pain associated with diabetic peripheral neuropathy: Begin dosing at 75 mg two times a day or 50 mg three times a day (150mg/day); MAX dose : 300 mg/day, in patients with CrCl \geq 60mL/min.
2. Postherpetic neuralgia: Begin dosing at 75 mg two times a day, or 50 mg three times a day (150 mg/day). The dose may be increased to 300 mg/day within 1 week based on efficacy and tolerability in patients with CrCl \geq 60mL/min.
3. Adjunctive therapy for adult patients with partial onset seizures: started on a total daily dose no greater than 150 mg/day (75 mg two times a day, or 50 mg three times a day). MAX dose: 600 mg/day, in patients with CrCl \geq 60mL/min.
4. Management of Fibromyalgia: Begin dosing at 75 mg two times a day (150 mg/day), MAX dose: 450 mg/day, in patients with CrCl \geq 60mL/min.

Side effects : Dizziness, Somnolence, Peripheral edema, Weight gain, Dry mouth.

Pregnancy : Category C.

Topiramate

Supply : Epilramate® 克癲膜衣錠 25 mg/Tab (OTOPI25)

Epilramate® 克癲膜衣錠 100 mg/Tab (OTOPIR1)

Indications : Partial onset seizures, tonic-clonic seizures, seizures associated with Lennox-Gastaut syndrome. (用於成人及兩歲以上兒童局部癲癇或併有LENNOX-GASTAUT症候群之癲癇及原發性全身性強直陣攣癲癇的輔助治療, 用於PARTIAL ONSET SEIZURE病患之單一藥物治療、預防偏頭痛。)

Usual dose : Adults: partial seizures or generalized tonic-clonic seizures: 400 mg/day PO BID. Children: the initial dose is topiramate 25 mg or less (1 to 3 mg/kg/day) nightly for 1 week. The dosage should then be

increased by increments of 1-3 mg/kg/day administered in 2 divided doses at 1- to 2-week intervals.

Side effects : Cognitive dysfunction, paresthesias, sedation, dizziness, fatigue, weight loss, diarrhea, and urolithiasis.

Pregnancy : Category D.

Note : Avoid abrupt withdrawal.

Valproate Sodium

Supply : Dipachro® 帝帕克 500 mg/Tab (ODEPA01)

Depakine Chrono® 帝拔癲 500 mg/Tab (ODEPAKI)

Hecalis® Solution 息癲適液 200 mg/ml 40 ml/BT (OHECA01)

Depavent® 癲立平 100mg/ml/Amp (IVALPRO)

Indications : Epilepsy. (癲癇之大發作、小發作、混合性及顛葉癲癇、躁病。)

Usual dose : Adult: Initial dose: 10-15mg/kg/day, increased by 5-10mg/kg daily weekly intervals until seizures are controlled. MAX: 60mg/kg/day.

Children ≥10 years: Refer to adult dosing. IV for epilepsy same as oral dosage.

Side effects : Abdominal pain, nausea, somnolence, tremor, dizziness, headache, weight gain.

Pregnancy : X (migraine prophylaxis)/Category D (all other indications).

Lactation : Excreted in breast milk. (Usually compatible)

Note: IV formulation for use only in patients who temporarily cannot use oral form; use for more than 14 days has not been studied; switch to oral valproic acid as soon as clinically feasible.

(2) Drugs Used in Parkinsonism

(a) Centrally Active Anticholinergic Drugs

Biperiden

Supply : Akin® 愛達寧 2 mg/Tab (OBIPERI)

Bipiden® 美必定 5 mg/ml/Amp (IAKINE)

Indications : Parkinsonism, Drug-induced extrapyramidal disorders. (帕金森氏症。)

Usual dose : Parkinsonism - PO 2 mg tid-qid, Max. 16 mg/day.

Drug-induced extrapyramidal disorders - PO 2 mg qd-tid. IM or IV - 2 mg repeat every half-hour until symptoms are resolved, but do not give more than 4 consecutive doses per 24 hours.

Side effects : Blurred vision, constipation, dry mouth, urinary retention, rash, drowsiness.

Pregnancy : Category C.

(b) Dopaminergic Agents

Apomorphine

Supply : APO-go® Pen 帕特捷 10mg/ml 3ml/Pen (IAPOGO)

Indications : Treatment of the on-off fluctuations associated with late-stage Parkinson's disease. (改善巴金森氏病後期藥效波動現象，如：LEVODOPA 或其他 DOPAMINE 作用劑 (BROMOCRIPTINE、LISURIDE、PERGOLIDE) 製劑無法適當地控制病患之運動不能、暫時性肌麻痺等症狀。)

Usual dose : Apomorphine injection is indicated for subcutaneous administration only. Starting at 0.2 ml (2mg) and up to a MAX dose of 0.6 ml (6 mg). The dose must be titrated on the basis of effectiveness and tolerance. Patient should be on domperidone 20 mg three times daily for at least two days prior to initiation of apomorphine.

Side effects : Nausea, vomiting, somnolence, hallucination, postural hypotension, dyskinesias, injection site reaction, yawning.

Pregnancy : Category C.

Bromocriptine

Supply : Volbro® 歐普酪 2.5 mg/Cap (OPARLOD)

Indications : Parkinson's disease, hyperprolactinemia, acromegaly. (原發性腫瘤及藥物引起之乳漏症。限用於因不得已之醫學理由須預防或抑制產後生理性泌乳之情形，例如：死胎、新生兒死亡或HIV 感染之母親...等。本品不建議用於常規性抑制泌乳或緩解產後乳房疼痛及腫脹之症狀，此類症狀以非藥物方式(例如：支撐乳房、冰敷)及/或簡單之止痛藥即可充分緩解。催乳素引起之月經失調及不孕症、催乳素引起之月經前症狀、催乳素有關之男性機能減退、陽萎及精子過少引起之不育症、催乳素分泌腺瘤、肢端肥大症、原發性及腦炎後的帕金森氏病。)

Usual dose : Hyperprolactinemia: Oral: Initial: 1.25 to 2.5 mg daily; may be increased by 2.5 mg daily as tolerated every 2 to 7 days until optimal response (range: 2.5 to 15 mg/day).

Parkinsonism: Oral: 1.25 mg twice daily, increased by 2.5 mg daily in 2- to 4-week intervals as needed (MAX: 100 mg/day).

Acromegaly: Oral: Initial: 1.25 to 2.5 mg daily increasing by 1.25 to 2.5 mg daily as necessary every 3 to 7 days; usual dose: 20 to 30 mg daily (MAX: 100 mg/day)

Side effects : Dizziness, fatigue, headache; constipation, nausea; Weakness; Rhinitis. Postural hypotension, syncope.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Contraindicated)

Entacapone [Catechol-O-methyltransferase (COMT) inhibitor]

Supply : Comtan® 諾康停 200 mg/Tab (OCOMTA)

Indications : Adjunct to levodopa/carbidopa to treat patients with parkinsonism. (併用 Levodopa/Benserazide 或者 Levodopa/Carbidopa 兩類藥品治療帕金森氏症病人。)

Usual dose : 200mg has been given with each dose of levodopa, Max. 1600mg/day.

Side effects : Dyskinesia/hyperkinesia, nausea, urine discoloration, diarrhea, abdominal pain, orthostatic hypotension.

Pregnancy : Category C.

Note : Do not concomitant with non-selective monoamine oxidase inhibitors

Madopar® & Madopar HBS®

Supply :

	Madopar HBS® 美道普錠 (OMADHBS)	Madopar® 美道普錠 (OMAD250)
Each Tab/Cap contains		
Levodopa	100 mg	200 mg
Benserazide	25 mg	50 mg

Indications : Parkinson's disease. (帕金森氏症。)

Usual dose : Initial dose: 125mg TID then increased by 125mg weekly until the individual therapeutic dosage is reached up to 1000 mg/day QID.

Side effects : Anorexia, nausea, and vomiting, psychic disturbance.

Note : 1. Hypertension occur with levodopa and MAOI coadministration.
2. Do not crush or open capsule Madopar HBS

Pramipexole

Supply : Mirapex® 樂伯克錠 0.25 mg/Tab (OMIRA02)

Mirapex® 樂伯克錠 1 mg/Tab (OMIRA01)

Indications : Parkinson's disease, primary restless legs syndrome. (治療自發性帕金森氏症及原發性腳部躁動症。)

Usual dose : 0.125 mg PO q8h initially; gradually titrated upward at weekly intervals to target range of 1.5-4.5 mg/day PO divided q8h.

Side effects : Somnolence, dyskinesia, hallucinations, insomnia, dizziness, postural hypotension, nausea, constipation.

Ropinirole HCl

Supply : Requip® 力必平 0.25 mg/Tab (OREQU2)

Indications : Parkinson's disease, primary restless legs syndrome. (治療自發性帕金森氏症及原發性腳部躁動症。)

Usual dose : Parkinson's disease: initial, 0.25 mg orally 3 times daily. It should be titrated weekly to therapeutic response; ascending dose schedule: week 1, 0.25 mg 3 times daily; week 2, 0.5 mg 3 times daily;

week 3, 0.75 mg 3 times daily; week 4, 1 mg 3 times daily; after week 4, if necessary, may increase daily dosage by 1.5 mg/day on weekly basis up to 9 mg/day, then by up to 3 mg/day weekly to total dose of 24 mg/day. Restless legs syndrome: Dose titration (all doses are once daily 1 to 3 hours before bedtime), 0.25 mg for days 1 and 2; 0.5 mg for days 3-7; 1 mg for week 2; 1.5 mg for week 3; 2 mg for week 4; 2.5 mg for week 5; 3 mg for week 6; 4 mg for week 7.

Side effects : Common: nausea, vomiting, dizziness, fatigue, headache, edema of leg, and increased sweating. Serious: Orthostatic hypotension, syncope, dyskinesia, sleep attack, somnolence, and hallucinations.

Pregnancy : Category C.

Rotigotine

Supply : Neupro® 紐普洛穿皮貼片劑 6mg/24hr/Patch (ENEUPRO)

Indications : Parkinson's disease. (原發性帕金森氏症。)

Usual dose : Early-stage: Initial: Apply 2 mg/24 hours patch once daily; may increase by 2 mg/24 hours weekly, based on clinical response and tolerability; the maximal dose is 8 mg/24 hours.

Advanced-stage: Initial: Apply 4 mg/24 hours patch once daily; may increase by 2 mg/24 hours weekly, based on clinical response and tolerability; up to a maximal dose of 16 mg/24 hours.

Side effects : Somnolence, dizziness, headache, Nausea, vomiting, Application and instillation site reactions.

Pregnancy : Category C.

Stalevo® 始立膜衣錠 (OSTALEV)

Supply : each Tab contains

Levodopa -----100mg

Carbidopa -----25mg

Entacapone -----200mg

Indications : Parkinson's disease. (表現藥效終期運動功能波動現象，以左多巴/多巴脫羧基酶抑制劑無法達到穩定治療效果之巴金森氏症病人。)

Usual dose : Maintenance: Titrate as necessary. Carbidopa should be 70-100 mg/day; not to exceed 200 mg/day. Entacapone should not to exceed 2000 mg/day.

Side effects : Dyskinesia, nausea, diarrhea, hyperkinesia, urine discoloration.

(c) Miscellaneous

Amantadine

Supply : Amanda® 安滿達 100 mg/Tab (OAMANTA)

Indications : Parkinson's disease/syndrome and drug-induced EPS, Influenza A virus respiratory tract illness. (巴金森病, 預防及治療 A 型流行性感冒症狀。)

Usual dose : Adults: Extrapyramidal Reactions: 200-300 mg/day in divided doses for controlling drug-induced extrapyramidal reactions.

Influenza A: 200 mg PO QD. Children: 1 to 9 years: 4.4 to 8.8 mg/kg/day to a maximum of 150 mg/day QD or BID. 10 years and older: 100 mg BID; however, for children weighing less than 40 kg, prescribing 5 milligrams/kilogram/day, regardless of age, is advisable.

Side effects : Orthostatic hypotension, peripheral edema, ataxia, depression, anorexia,

Pregnancy : Category C.

(3) Skeletal Muscle Relaxants

Baclofen

Supply : Bafen® 痛獲平 5 mg/Tab (OBAFEN)

Indications : Alleviation of sign and symptom of spasticity. (限於脊髓和大腦疾病或損傷引起的肌肉痙攣。)

Usual dose : 5 mg tid initially, then increased by increments of 5 mg per dose every 3 days, Max. 80 mg/day.

Side effects : Hypotension, sedation, dizziness, drowsiness, headache, depression, paresthesia, constipation, nausea, vomiting, Urinary retention,

Symptoms of overdose: Blurred or double vision, convulsions (seizures), muscle weakness (severe), shortness of breath or unusually slow or troubled breathing.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Cyclobenzaprine

Supply : Musgud® 瑪舒可 10mg/Tab (OMUSGUD)

Indications : Alleviation of sign and symptom of spasticity. (緩解急性骨骼肌肌肉之痙攣。)

Usual dose : 5-10mg tid.

Side effects : Drowsiness (most common), dry mouth, headache, fatigue.

Pregnancy : Category B.

Note : Safety and effectiveness in pediatric patients below 15 years of age have not been established.

Mephenoxalone

Supply : Mephenoxalone® 美飛舒肌 200mg/Tab (ODORSI)

Indications : Treatment of muscle spasm, anxiety or headache caused by tension. (緩解由脊髓或肌肉痙攣引起的疼痛。)

Usual dose : Initial dosage in adults: 200 mg PO TID, up to 1500~2000 mg/day in divided doses; use the lowest effective dose in patients with renal or hepatic impairment; not recommended for children under age 6

Side effects : Asthenia, Ataxia, dizziness, EEG abnormality, excitement, paradoxical, headache, paresthesia, slurred speech, somnolence, vertigo, diarrhea, nausea, vomiting.

Pregnancy : Category D.

Sumakin® see page 5

(4) Drugs Used in Myasthenia Gravis

Neostigmine see page 3

Pyridostigmine Bromide

Supply : Mestinon® 美定隆 60 mg/Tab (OMESTI)

Indications : Myasthenia gravis. (重症肌無力。)

Usual dose : Myasthenia gravis: 60-80 mg BID-QID.

Intestinal atony, atonic constipation: 60 mg as required (Q4H)

Side effects : Nausea, vomiting, abdominal cramps, miosis, increase salivation and bronchial secretion, bradycardia, hypotension.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

(5) Antiemetic/Antivertigo Agents

Betahistine

Supply : Nilasen® 寧耳眩 24mg/Tab (ONILA02)

Indications : Vertigo cause by Ménière's disease. (梅尼爾氏症候群所引起之暈眩、聽力障礙。前庭性暈眩的症狀治療。)

Usual dose : *Adults*: 24 mg twice daily.

Side effects : Headache (5%), Nausea (2%), dyspepsia, Pruritus, Skin rash.

Diphenidol HCl

Supply : Sinphadol® 杏化樂 25 mg/Tab (OCEPHAO)

Indications : Vertigo due to labyrinthine dysfunction, Meniere's disease, nausea, vomiting. (因內耳障害引起之眩暈。)

Usual dose : 25-50 mg PO Q4H, diphenidol should Not be used in children weighing less than 23 kg.

Side effects : Hallucinations, disorientation, confusion, headache, drowsiness, dry mouth, rash.

Pregnancy : Safety for use has not been established.

Prochlorperazine

Supply : Novamin® 諾安命 5 mg/Tab (ONOVAM)

Novamin® 諾安命 5mg/ml/Amp (INOVAMI)

Indications : Severe nausea and vomiting, psychosis. (精神病狀態、噁心、嘔吐。)

Usual dose : Severe nausea and vomiting - Adults: PO 5-10 mg tid-qid, IM-5-10 mg, Max.40mg/day; Children: 2.5 mg 1-3 times daily, IM 0.132 mg/kg. Adults surgery - IM 5-10 mg 1-2hr before induction of anesthesia, IV 5-10 mg 15-30 min before induction of anesthesia. Psychosis - Adults: 5-10 mg tid-qid. Increase dosage gradually, some patients respond to 50-75 mg/day.

Side effects : Extrapyramidal reactions, sedation, drowsiness, hypotension, dry mouth, constipation, urinary retention, nasal congestion.

Pregnancy : Category C.

Lactation : Excretion into breast milk should be expected.

(6) Miscellaneous

Botulinum Toxin Type A

Supply : Botox® 保妥適 100 U/Vial (IBOTOX)

Indications : Strabismus and blepharospasm associated with dystonia, hemifacial spasms, spasmodic torticollis. (眼瞼痙攣、半面痙攣、局部肌肉痙攣症、斜視、痙攣性斜頸、小兒腦性癱瘓引起之肌肉痙攣。上臉部皺紋(皺眉紋、抬頭紋、魚尾紋)、原發性腋窩多汗症。成人中風後之手臂痙攣。因脊髓病變所引起的逼尿肌過動而導致尿失禁之成人病患，且經抗膽鹼類藥物治療無效或無法耐受者。治療有尿失禁、尿急與頻尿等膀胱過動症的成人病患，經抗膽鹼類藥物治療反應不佳或無法耐受必須停藥，且如有需要時，願意及能夠於治療後進行乾淨間歇性導尿(Clean intermittent catheterization) 者。BOTOX 適用於慢性偏頭痛 (至少有 3 個月時間，每個月 ≥ 15 天，每次持續 4 小時以上，且其中至少有一半的頭痛是偏頭痛) 成人病患的頭痛預防性治療。[重要限制：BOTOX 對陣發性頭痛(每月頭痛天數 ≤ 14 天)之安全性及有效性尚無證據證明。])

Usual dose : Adult spasticity of the arm post-stroke: 1000 units distributed among the following five muscles: flexor digitorum profundus(FDP) 150 units, flexor digitorum superficialis(FDS) 150-250 units, flexor carpi ulnaris(FCU) 150 units, flexor carpi radialis(FCR) 150 units and biceps brachii(BB) 300-400 units. Paediatric cerebral palsy spasticity: initial dose, 20 units/kg body weight given as a divided dose between both calf muscles. If only one calf is affected, a dose of 10 units/kg bodyweight should be used. MAX dose: 1000 nits/patient.

Spasmodic torticollis: initial dose, 500 units per patient given as a divided dose and administered to the two or three most active neck muscles. Blepharospasm and hemifacial spasm: initial dose, 120 units per eye. In cases of unilateral blepharospasm the injections should be confined to affected eye. Patients with hemifacial spasm should be treated as for unilateral blepharospasm.

Axillary hyperhidrosis: initial dose, 100 units per axilla. If the desired effect is not attained, up to 200 units per axilla can be administered for subsequent injections. Moderate to severe glabellar lines: 50 units of disport to be divided into 5 injection sites.

Side effects : Itching, generalized weakness, fatigue, flu-like syndrome and pain/bruising at injection site, dysphagia, diarrhoea, muscle weakness, urinary incontinence, ptosis, diplopia, dry eyes, tearing, eyelid oedema, headache, compensatory sweating...etc.

Pregnancy : Category C.

4. Agents Used in Anesthesia

(1) Local Anesthetics

Lidocaine HCl

Supply : Lignocaine® 里格卡因 2% 20 ml/Vial (ILIDO20)

Lidocaine® 利都卡因 2% 2ml/Amp (ILIDOCA)

Indications : Local anesthesia. (局部麻醉。)

Side effects : Sedation, vomiting, rash, hypotension, respiratory depression.

Pregnancy : Category B.

(2) General Anesthetics

Ketamine HCl (管三)

Supply : Ketalar® 500 mg/10ml/Vial (50 mg/ml) (IKETALA)

Indications : Induction of anesthesia. (麻醉劑。)

Usual dose : Induction - IV 1-4.5 mg/kg, IM 6.5-13 mg/kg.

Maintenance - increments of one-half to the full induction dose.

Side effects : Hypertension, tachycardia, emergence from anesthesia, psychiatric sign or symptom.

Pregnancy : Since the safe use in pregnancy has not been established, such use is not recommended.

Midazolam (管四)

Supply : Dormicum® 導眠靜 5 mg/5ml/Amp (IDORMIC)

Indications : Preoperative sedation, sedation, anxiolysis and amnesia.
(知覺鎮靜、急救加護病房鎮靜、麻醉誘導及維持、手術前給藥。)

Usual dose : For anesthesia: 0.15 to 0.3 mg/kg IV; doses of 0.1 mg/kg IM have been effective for anesthetic premedication.

For conscious sedation: 0.05-0.1 mg/kg IV, maintenance of sedation in increment of 25% of initial dose may be given by slow titration; 1 mg/ml is recommended for titration, no more than 2.5 mg should be given over at least 2 minutes.

Side effects : Respiratory rate↓, apnea, headache, hiccoughs.

Pregnancy : Category D.

Lactation : Excreted in breast milk. (May be of concern)

Propofol

Supply : Provide® 普麻敏 200 mg/20ml/Amp (10 mg/ml) (IPROPO)

Indications : Anesthesia, ICU sedation. (靜脈注射麻醉劑。已住在加護病房中使用人工呼吸器之成人病人作為鎮靜之用。手術及侵襲性檢查時鎮靜用。)

Usual dose : General anesthesia: induction, 40 mg IV every 10 seconds until induction onset (2 to 2.5 mg/kg); maintenance, 6 to 12 mg/kg/hr IV infusion ;

Sedation for a mechanically ventilated patient.

Intensive care unit: 0.3 mg/kg/hr IV infusion for 5 min then titrate in 0.3 to 0.6 mg/kg/hr increments to achieve desired level of sedation; usual maintenance rates 0.3 to 3 mg/kg/hr or higher.

Side effects : Pain on injection, apnea, hypotension.

Pregnancy : Category B.

Lactation : Excretion into breast milk in low concentrations.

Thiamylal (管四)

Supply : Citosol® 治得舒 300mg/Amp (ICITOSO)

Indications : 靜脈麻醉、全身麻醉之誘導。

Side effects : 呼吸停止、呼吸抑制、舌根沈下、喉頭痙攣引起咳、打嗝、血壓下降、引起不整脈。

(3) Neuromuscular Blocking Agents

Atracurium

Supply : Genso® 健舒 25mg/2.5ml/Amp (ITRACRI)

Indications : To relax skeletal muscle atracurium is used as an adjunct to general anesthesia, to facilitate endotracheal intubation, and to provide skeletal muscle relaxation during surgery or mechanical ventilation. (本藥乃一高選擇性及競爭性的非去極化神經肌肉阻斷劑。可作為手術全身麻醉或加護病房鎮靜的輔助劑、以鬆弛骨骼肌、幫助氣管插管與人工吸器的協調。)

Usual dose : IV 0.3-0.6 mg/kg.

Side effects : Hypersensitivity to atracurium or benzoyl alcohol; due to excessive tissue irritation, do not give atracurium intramuscularly.

Pregnancy : Category C.

Storage : 2-8°C

III. Cardiovascular Drugs

1. Cardiac Glycosides

Digoxin

Supply : Lanoxin® 隆我心 0.25 mg/Tab (ODIGOXI)
Cardiacin® Elixir 地高新醑劑 0.05 mg/ml (ODIGOXE)
Lanoxin® 隆我心 0.5 mg/2ml/Amp (IDIGOX)

Indications : CHF, atrial fibrillation, atrial flutter, PSVT. (心臟衰竭、心房撲動、心房纖維顫動、陣發性心室性心搏過速。)

Usual dose : Adults: Oral: rapid digitalization: 0.75-1.5mg, maintenance dose: 0.125-0.25mg; IV: rapid digitalization: 0.75mg initially, 0.25mg Q2-4H, maximum dose: 1.0-1.5mg. Infants and Children: 10-20ug/kg/day by mouth or by injection.

Side effects : Anorexia, nausea, vomiting, diarrhea, headache, weakness, confusion, blurred, yellow vision, ventricular tachycardia, PVCs.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Note : 1.The effects of digoxin may be increased by Amiodarone, Erythromycin, Tetracyclines, Verapamil, Cyclosporin.
2.The effects of digoxin may be decreased by Rifampin, Phenytoin, Neomycin, Metoclopramide.
3.In case of impaired renal function, dosage adjustment is needed.

2. Antiarrhythmics

(1) Class IB

Lidocaine

Supply : Xylocaine® 2% 5 ml/Amp (ILIDOC5)

Indications : Ventricular arrhythmias. (心室性不整律之急性治療。)

Usual dose : Ventricular arrhythmias - Initial, IV bolus 50-100 mg given at a rate of 25-50 mg/min, repeat after 5 min as needed, Max. 200-300 mg/hr. Maintenance infusion 1-4 mg/min (20-50 mcg/kg/min).

Side effects : Less tolerant to local anesthetics, excitation of the CNS, arrhythmias and cardiac arrest may occur.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Usually compatible)

Note : The effects may be increased by Propranolol.

Phenytoin see page 23

(2) Class IC

Propafenone

Supply : Rytmonorm® 心利正 150 mg/Tab (ORYTMON)

Indications : Ventricular arrhythmias, supraventricular tachycardias, Wolff-Parkinson-White syndrome. (心室性心搏過速、上室性心搏過速、W-P-W症候群。)

Usual dose : Initiate with 150 mg q8h, dosage may be increased at a minimum of 3-4 day intervals to 225 mg q8h, Max. 300 mg q8h.

Side effects : Unusual taste, dizziness, headache, palpitation, AV block.

Pregnancy : Category C.

Note: Because of the proarrhythmic effects, reserve its use for patients in whom the benefits of treatment outweigh the risks.

(3) Class II

Propranolol HCl

Supply : Propranolol® 心律 10 mg/Tab (OINDER)

Indications : Hypertension, angina, tachyarrhythmias, migraine, myocardial infarction. (狹心症、不整律(上室性不整律、心室性心搏過速)原發性及腎性高血壓、偏頭痛、控制原發性震顫、控制焦慮性心搏過速、甲狀腺毒症的輔助劑、親鉻細胞瘤。)

Usual dose : Angina - 80-320 mg/day, bid-qid. Max. 320 mg/day. Arrhythmias - 10-30 mg tid-qid. Hypertension - 40 mg bid, Max. 640 mg/day. MI - 180-240 mg/day, Max. 240 mg. Migraine - 80 -240 mg/day.

Side effects : Mental depression, unusual slow heartbeat, broncospasm.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Note : 1. When used with adrenaline may cause hypertensive episode followed by bradycardia.

2. May increase the effects of Lidocaine, Theophylline.

(4) Class III

Amiodarone

Supply : Adarone® 艾達絡 200 mg/Tab (OAMIORO)

Cordarone® 臟得樂 150mg/3ml/Amp (ICORDAR)

Indications : Ventricular arrhythmias, ventricular fibrillation.

(WOLFF-PARKINSON-WHITE氏症候群、上室性及心室性心搏過速、心房撲動、心房纖維顫動、心室纖維顫動。)

Usual dose : Prevention of recurrent life-threatening ventricular arrhythmias: PO 800 to 1600 mg daily in 1 to 2 doses for 1 to 3 weeks, then when adequate arrhythmia control is achieved, decrease to 600 to 800 mg daily in 1 to 2 doses for 1 month; maintenance: 400 mg daily. Atrial fibrillation: PO 600 to 800 mg daily in divided doses

until 10 g total, then 200 mg daily as maintenance. Although not supported by clinical evidence, a maintenance dose of 100 mg daily is commonly used especially for the elderly or patients with low body mass. IV loading dose: 150 mg at rate of 15 mg/min over 10 min, then 360 mg at rate of 1mg/min (over next 6 hrs). IV maintenance dose: 540 mg at rate of 0.5 mg/min (over next 18 hrs), after first 24 hrs the maintenance infusion rate of 0.5 mg/min (720 mg over 24 hrs) should be continued.

Side effects : Pulmonary toxicity, symptomatic bradycardia, CHF, photosensitivity, hepatotoxicity, thyroid abnormalities, neurologic problems, GI complaints.

Pregnancy : Category D.

Lactation : Excreted in breast milk. (May be of concern)

Note : May increase the effects of Warfarin, Digoxin, Phenytoin.

(5) Class IV

Verapamil HCl

Supply : Isomil® 依索蜜 40 mg/Tab (ISOPTI)

Verpamil® 衛汝心 2.5 mg/ml/amp (ISOPTIN)

Indications : Angina, Supraventricular tachyarrhythmias, atrial flutter or fibrillation, essential hypertension

Usual dose : Angina at rest and chronic stable angina - PO 80-120 mg tid. Arrhythmias - PO 240-320 mg/day 3-4 times daily.

Essential hypertension - PO initial 80 mg tid. Max. 480 mg/day.

Supraventricular tachyarrhythmias - IV. Initially 5-10 mg as an IV bolus over 2 min, if necessary, 10 mg 30 min. after the first dose.

Side effects : Constipation, flushing, dizziness, headache, allergic reaction.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Note : May increased effects of Carbamazepine, Digoxin.

(6) Miscellaneous

Adenosine

Supply : Adenozer® 緩心樂 6 mg/2ml/Vial (IADENOC)

Indications : Paroxysmal supraventricular tachycardia, adjunct to thallium-201 myocardial perfusion scintigraphy. (治療陣發性上室心搏過速。)

Usual dose : Adult: IV bolus initial dose: 3 mg given as a rapid intravenous bolus (administered over a 1 to 2 second period). Repeat administration: If the first dose does not result in elimination of the supraventricular tachycardia within 1 to 2 minutes, 6 mg should be given as a rapid intravenous bolus. This 12 mg dose may be

repeated a second time if required. Additional or higher doses are not recommended. *Pediatric*: 0.05-0.1mg/kg increased in increments of 0.05mg/kg q2min prn, to a maximum of 0.25mg/kg.

Side effects : Facial flushing, SOB/dyspnea, angina-like chest pain, headache.

Pregnancy : Category C.

Atropine Sulfate see page 1

3. Nitrates derivatives

Side effects : Headache (up to 50%), restlessness, weakness, vertigo, nausea, vomiting, tachycardia, hypotension, cutaneous vasodilation with flushing, dysuria, arthralgia.

Pregnancy : Category C.

Isosorbide Dinitrate

Supply : Angidil® 怡心通 10mg/10ml/Vial (1 mg/ml) (IANGIDI)

Indications : Angina pectoris. (治療狹心症發作。)

Usual dose : Intravenous doses of 2 to 8 mg/hr have been used in the management of heart failure, or in combination with thrombolytic therapy in acute myocardial infarction.

Isosorbide Mononitrate

Supply : Isormol® 愛速脈 20 mg/Tab (OISORMO)
Imdur® 寬心 60mg/Tab (OIMDUR)

Indications : Angina pectoris. (預防狹心症之發作。)

Usual dose : 20 mg bid, with the two doses given 7hr apart.

Nicorandil

Supply : Nirandil® 利可心 5 mg/Tab (OSILV00)

Indications : Angina pectoris. (狹心症。)

Usual dose : Stable angina - 10-40 mg bid, unstable angina - 5-10 mg qid.

Side effects : Headache, sedation, dizziness, dry mouth, fatigue, nausea.

Nitroglycerin

Supply : Nitrostat® 耐絞寧 0.6 mg/Tab 25 Tabs/Bot (ONITROG)
Nitroderm TTS® 護心貼片 25mg/Piece 10Pieces/Box (ENITRO)

Indications : Perioperative hypertension, congestive heart failure associated with acute myocardial infarction, angina pectoris. (狹心症之治療及預防。)

Usual dose : Sublingual – 1 Tab at first sign of an acute anginal attack,

repeated at 5 min. intervals as needed, take no more than 3 Tab in 15 min. Transdermal - Apply once daily to a skin site free of hair.

Side effects : Sublingual tablets may cause a local burning or tingling sensation in the oral cavity at the point of dissolution.

4. Angiotensin Converting Enzyme Inhibitors

Side effects : Cough, dyspnea, insomnia, headache, dizziness, malaise, GI disturbance, rash, pruritus, hypotension.

Pregnancy : Category C (first trimester);
Category D (second and third trimester).

Entresto 200® 健安心 (OENTRES)

Supply : each Tab contains

Sacubitril-----97mg

Valsartan-----103mg

Indications : Chronic heart failure (NYHA Class II-IV). (治療慢性心臟衰竭(紐約心臟學會[NYHA]第二級至第四級)且心室射出分率降低的患者，減少心血管死亡和心臟衰竭住院風險。說明：ENTRESTO 可以和其他心臟衰竭療法併用，用於取代血管收縮素轉化酶抑制劑(ACEI)或血管收縮素受體阻斷劑(ARB)。)

Usual dose : Not currently taking ACEI or ARB: Initial: Sacubitril 24 mg/valsartan 26 mg twice daily. Switching from an ACEI or ARB at a standard dosage: Initial: Sacubitril 49 mg/valsartan 51 mg twice daily. If switching from an ACE inhibitor, allow a 36-hour washout period before initiating sacubitril/valsartan. Maintenance: Double the dose every 2-4 weeks to a target dosage sacubitril 97 mg/valsartan 103 mg twice daily.

Side effects : Hypotension, hyperkalemia, dizziness, Increased serum creatinine, angioedema.

Imidapril

Supply : Tanatril® 田納滋 10mg/Tab (OTANAT)

Indications : Anti-Hypertension. (高血壓。)

Usual dose : Oral: Initial: 5 mg once daily; after at least 3 weeks, may increase dosage to 10 mg once daily if needed. Consider addition of diuretic prior to further dosage increases to achieve optimum blood pressure control (maximum dosage: 20 mg daily).

Side effects : Hyperkalemia, cough, dizziness, drowsiness, fatigue, headache.

Pregnancy : Contraindication (second and third trimesters of pregnancy).

5. Angiotensin II Receptor Antagonists

Azilsartan

Supply : Edarbi® 易得平 40 mg/Tab (OAZILSA)

Indications : Treatment of hypertension. (治療高血壓。)

Usual dose : 20-40 mg orally once daily. Max. 80mg/day.

Side effects : Dizziness, diarrhea, peripheral edema.

Pregnancy : Category D.

Co-Diovan® 可得安穩 (OCODIOV)

Supply : each Tab contains

Valsartan-----80mg

Hydrochlorothiazide-----12.5mg

Indications : Hypertension. (單一療法無法控制的高血壓，做為第二線用藥。)

Usual dose : 1-2 Tab qd.

Side effects : Same as valsartan and hydrochlorothiazide.

Exforge® 易安穩 (OEXFOR)

Supply : each Tab contains

Valsartan-----80mg

Amlodipine-----5mg

Indications : Hypertension. (治療高血壓,此複方藥品不適用於起始治療。)

Usual dose : 1-2 Tab qd.

Side effects : Same as valsartan and amlodipine.

Exforge HCT® 力安穩 (OEXFOHC)

Supply : each Tab contains

Valsartan-----160mg

Amlodipine-----5mg

Hydrochlorothiazide-----12.5mg

Indications : Hypertension. (治療高血壓。本品適用於以 amlodipine, valsartan, hydrochlorothiazide 其中兩種成分合併治療，仍無法有效控制血壓的高血壓患者。)

Usual dose : 1 Tab qd.

Side effects : Dizziness, peripheral edema, headache, dyspepsia, fatigue, muscle spasm.

Irbesartan

Supply : Aprovel® 安普諾維 300 mg/Tab (OAPROV3)

Indications : Hypertension, diabetic nephropathy. (本態性高血壓。治療併有高血壓及第二型糖尿病患者的血壓及糖尿病性腎病變。)

Usual dose : 150-300 mg daily.

Side effects : Headache, musculoskeletal trauma, fatigue, diarrhea, URI,

cough.

Pregnancy : Category C (1st trimester), Category D (2nd, 3th trimester).

Losartan

Supply : Coxco® 可舒壓 50 mg/Tab (OCOZA5)

Indications : Hypertension, diabetic nephropathy. (高血壓, 治療第II型糖尿病腎病變。)

Usual dose : 25-100 mg/day 1-2 times daily.

Side effects : Fatigue, dizziness, headache, edema, swelling, chest pain, abdominal pain, nausea, URI, cough.

Pregnancy : Category C (1st trimester), Category D (2nd, 3th trimester).

Olmesartan

Supply : Olmetec® 雅脈 20mg/Tab (OLMETE)

Indications : Hypertension. (高血壓。)

Usual dose : 20 mg orally once daily; after 2 weeks of therapy, the dose may be increased to 40 mg. Doses above 40 mg do not appear to have greater effect.

Side effects : Dizziness(3%), headache, hyperglycemia and hypertriglyceridemia (each reported approximately 1%), back pain, CPK increased, influenza-like symptoms.

Pregnancy : Category C (1st trimester), Category D (2nd, 3th trimester).

Sevikar® 舒脈康 (OSEVI00)

Supply : each Tab contains

Olmesartan-----20mg
Amlodipine-----5mg

Indications : Hypertension. (治療高血壓,此複方藥品不適用於起始治療。)

Usual dose : 1 Tab qd.

Side effects : Edema peripheral、Headache、Fatigue、Nasopharyngitis、Muscle spasms.

Telmisartan

Supply : Micardis® 必康平 80 mg/Tab (OMICAR8)

Indications : Hypertension. (原發性高血壓。降低心血管風險。)

Usual dose : Initial, 40 mg ORALLY once daily; usual maintenance dose range: 20-80 mg/day. Patients with volume depletion should be initiated on the lower dosage with close supervision. May take with or without food.

Side effects : Hypotension, anemia, dizziness, headache, fatigue, cough, upper respiratory infection, angioedema.

Pregnancy : Category C (1st trimester), Category D (2nd, 3th trimester).

Valsartan

Supply : Diovan® 得安穩 80 mg/Tab (ODIOVA)

Diovan® 得安穩 160 mg/Tab (ODIOV16)

Indications : Hypertension, congestive heart failure. (治療成人和6-18 歲的兒童或青少年高血壓、心衰竭(NYHA 二到四級)、心肌梗塞後左心室功能異常。)

Usual dose : Initial 80-160 mg qd, a dose range 80-320 mg.

Side effects : Headache, dizziness, URI, cough, diarrhea, nausea.

Pregnancy : Category C (1st trimester), Category D (2nd, 3th trimester).

6. α adrenergic Blockers

Doxazosin

Supply : Doxaben® 可迅持續性藥效錠 4mg/Tab (ODOXAZ)

Indications : Hypertension, benign prostatic hyperplasia. (高血壓、良性前列腺肥大。)

Usual dose : Hypertension - Initial 1 mg qd, maintenance 2-16 mg daily.

Benign prostatic hyperplasia - Initial 1mg qd, maintenance 2-8mg daily.

Side effects : Orthostatic hypotension, dizziness, headache, vertigo.

Pregnancy : Category C.

Minoxidil

Supply : Loniten® 洛寧 10 mg/Tab (OLONIT1)

Indications : Severe hypertension

Usual dose : Adults and children $\geq 12y/o$ – Initial 5 mg qd, effective range 10-40 mg/day. Max. 100 mg/day. Children – Initial 0.2 mg/kg/day, effective range 0.25-1 mg/kg/day. Max. 50 mg/day.

Terazosin

Supply : Conmy® 服脈 2mg/Tab (OHYTRI2)

Indications : Hypertension, benign prostatic hypertrophy, and heart failure. (高血壓、良性攝護腺肥大症。)

Usual dose : Adults: Initial dose 1mg PO HS, then titrate to 5mg PO QD; some patients may require 10-20mg PO QD.

Side effects : The first-dose syncope and postural hypotension frequently occur. Other adverse effects include dizziness, faintness, fatigue and headache; tachycardia has also been observed.

Pregnancy : Category C.

7. β adrenergic Blockers

Side effects : Bradycardia, dizziness, vertigo, headache, mental depression, GI disturbance, rash, bronchospasm, dyspnea, nasal stuffiness.

Bisoprolol

Supply : Concor® 康肯 1.25 mg/Tab (OCONC03)

Concor® 康肯 5 mg/Tab (OCONCOR)

Indications : Hypertension, angina pectoris. (高血壓，狹心症，穩定型慢性中度至重度 (NYHA class III、IV) 心衰竭。)

Usual dose : Angina pectoris, chronic: 5-20 mg PO once daily.

Congestive heart failure: initial, 1.25 mg once daily, titrate to maximum dose of 10 mg once daily. Hypertension: initial, 2.5-5 mg once daily, maximum dose, 40 mg once daily.

Side effects : Fatigue, lethargy, dizziness, cold extremities, abnormal dream, GI disturbance, hypotension, bradycardia.

Pregnancy : Category C.

Note : Do not discontinue abruptly.

Propranolol see page 36

8. α/β adrenergic Blockers

Carvedilol

Supply : Carlatrend® 卡心平 6.25mg/Tab (OCARLAT)

Syntrend® 心全 25 mg/Tab (ODILAT1)

Indications : Hypertension, congestive heart failure. (高血壓、鬱血性心臟衰竭。)

Usual dose : Adults: Hypertension- 6.25 mg PO BID may be increase to 12.5-25 mg BID. CHF- 3.125 mg PO BID may be doubled every 2 weeks up to a maximum dose of 25-50 mg BID. dose reductions are suggested in liver disease

Side effects : Dizziness, bradycardia, postural hypotension, headache, bronchospasm, skin rash.

Pregnancy : Category C.

Labetalol HCl

Supply : Latol® 速立妥 200mg/Tab (OLATOL)

Chenday® 壓泰定 25mg/5ml/Amp (5mg/ml) (ICHENDA)

Indications : Hypertension. (高血壓。)

Usual dose : PO : 200-400mg BID. IV : initial dose 50mg , if necessary, doses of 50mg may be repeated at 5 minutes interval until a satisfactory response occurs.

Side effects : Hypotension, dizziness, nausea, ventricular arrhythmias, hypoesthesia, pruritus, flushing.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

9. Calcium Channel Blockers

Amlodipine

Supply : Amlobin® 鎮脈 5mg/Tab (ONORVA1)

Norvasc® 脈優 5mg/Tab (ONORVAS)

Indications : Hypertension, angina pectoris. (高血壓、心絞痛。)

Usual dose : Hypertension - 2.5-5 mg qd, Max. dose 10 mg qd.

Angina - 5-10 mg qd.

Side effects : Peripheral edema, headache, dizziness, flushing, rash, gingival hyperplasia.

Pregnancy : Category C

Caduet® 脂脈優 (OCADUE)

Supply : each Tab contains

Amlodipine-----5mg

Atorvastatin -----10mg

Indications : Hyperlipidemia – Hypertension. (治療高血壓和血脂異常，不建議使用本品為高血壓及血脂異常之起始治療。)

Usual dose : Initial therapy: Amlodipine 5 mg and atorvastatin 10 once daily; dose may be titrated after 1-2 weeks (amlodipine component) and after 2-4 weeks (atorvastatin component) to a maximum daily dose.

Side effects : See individual agents.

Diltiazem

Supply : Cartil® 卡迪爾 30 mg/Tab (OHERBE3)

Cardizem Retard® 凱帝心 90 mg/Cap (OCARD)

Indications : Angina, mild to moderate essential hypertension. (狹心症、高血壓。)

Usual dose : 30 mg 3-4 times daily, Cardizem Retard® -1 Tab qd-bid. Max. 360 mg/day.

Side effects : Headache, dizziness, peripheral edema, AV block, bradycardia, flushing, rash, gingival hyperplasia.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Exforge® see page 40

Exforge HCT® see page 40

Lercanidipine

Supply : Micapine® 名佳平 10mg/Tab (OZANIDI)

Zanidip® 利壓 10mg/Tab (OLERCAN)

Indications : Hypertension. (高血壓。)

Usual dose : Oral: Initial: 10 mg once daily; may increase to 20 mg once daily if needed. Administer at least 15 minutes before meals.

Side effects : Headache ($\leq 4\%$), Flushing ($\leq 3\%$), cardiac arrhythmia ($\leq 2\%$; palpitations, tachycardia).

Pregnancy : Contraindicated.

Nifedipine

Supply : Nifepine® 保心律 10 mg/Cap (ONIFEDI)

Adalat® OROS 冠達悅歐樂 30 mg/Tab (ONIFE30)

Indications : Chronic stable angina, hypertension. (狹心症、高血壓。)

Usual dose : 10-20 mg PO TID or 30-60 mg extended release PO QD; doses above 180 mg/day regular release or 90-120 mg extended release are not recommended.

Side effects : Peripheral edema, dizziness, headache, nausea, MI, CHF, flushing, rash, gingival hyperplasia.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Note : Adalat® OROS – Do not chew, divide or crush.

Sevikar® see page 41

10. Centrally Acting Antiadrenergic Agents

Methyldopa

Supply : Methyldopa® 脈得保 250 mg/Tab (OMETHYL)

Indications : Hypertension. (高血壓。)

Usual dose : Initial 250 mg bid-tid for 2 days, maintenance 500 mg-2 g daily bid-qid. Max. 2-3 g/day.

Side effects : Postural hypotension, headache, fever, bradycardia, sedation, rash, GI disturbance, hepatitis, jaundice.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Usually compatible)

Note : Rebound hypertension may occur in up to 13% after abrupt withdrawal.

11. Diuretics

(1) Thiazides and related diuretics

Benzyhydrochlorothiazide

Supply : Behyd® 泌排特 4mg/Tab (OBEHYDE)

Indications : Edema, hypertension. (利尿、高血壓。)

Usual dose : PO 1-2 Tab BID.

Co-Diovan® see page 40

Exforge HCT® see page 40

Slosat® 賜樂泄 (OALDACT)

Supply : each Tab contains

Hydrochlorothiazide-----25mg

Spirolactone-----25mg

Indications : Edema, hypertension. (利尿、高血壓。)

Usual dose : Edema-1-8 Tabs daily in several times. Hypertension-2-4 Tabs daily in several times.

Side effects : Same as individual drug.

(2) Loop Diuretics

Furosemide

Supply : Furide® 舒利諾 40 mg/Tab (OFURO01)

Fumide® 福滿內服液劑 10mg/ml 120ml/Bot (OFUROS)

Furosemide® 扶如泄民 20mg/2ml/Amp (IFURSEM)

Indications : Edema, hypertension. (利尿、高血壓。)

Usual dose : PO for edema- Pediatrics: Initial: 2 mg/kg/dose increased in increments of 1-2 mg/kg/dose with each succeeding dose at intervals of 6-8 hours, maximum dose: 6 mg/kg/dose. Adults: 20- 80 mg as a single dose initially, double successive doses at intervals of 6-8 hours until response is obtained (Max: 600mg/day). IM or IV for edema- Pediatrics: Initial: 1 mg/kg/dose; may increase dose in increments of 1 mg/kg/dose and administer not sooner than 2 hours after previous dose; maximum dose: 6 mg/kg/dose. Adults: 20-40 mg initially given as a single dose. The dose may be raised by 20 mg and given not sooner than 2 hrs after the previous dose. Continuous IV infusion: Initial: IV bolus dose 40 to 100 mg over 1 to 2 minutes, followed by continuous IV infusion rate of 10 to 40 mg/hour; repeat loading dose before increasing infusion rate.

Side effects : Fluid or electrolyte disturbances, hypotension, hyperglycemia, hyperuricemia, anorexia, vertigo, dizziness, headache,

leukopenia, rash, photosensitivity.

Pregnancy : Category C.

Lactation : Excreted in breast milk.

Note : Ototoxicity may be increased when used with aminoglycosides.

(3) Potassium Sparing Diuretics

Slosat® see page 46

Spironolactone

Supply : Aldactin® 愛達信 25 mg/Tab (OALDAC)

Indications : Edema, hypertension. (利尿、高血壓、原發性醛類脂醇過多症。)

Usual dose : Edema - Adults: 25-200 mg/day; Children: 3.3 mg/kg/day.

Hypertension - Adults: Initial 50-100 mg/day; Children: 1-2 mg/kg bid.

Side effects : Cramping, diarrhea, drowsiness, headache, rash, hirsutism, hyperkalemia.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Note : When used with Potassium salt may increase potassium retention.

(4) Carbonic Anhydrase Inhibitors

Acetazolamide see page 20

(5) Osmotic Diuretics

Glycerol® 固利壓 (IGLYC04)

Supply : 250ml/BT, each ml contains

Glycerin -----100mg

Fructose-----50mg

Sodium Chloride-----9mg

Indications : Reduce intracranial pressure, cerebral edema. (降低顱內壓、腦水腫。)

Usual dose : Usual adult dose: 200-500ml QD or Q12H IV infusion for 2-3 hours, duration of administration: 1-2 weeks.

Side effects : Occult blood in urine, hemoglobinuria, headache.

Pregnancy : Category C.

Mannitol

Supply : Maniton® 滿乃通 20% 500 ml/BT (IMANITO)

Indications : Diuresis, treatment of cerebral edema, reduction of intraocular pressure. (利尿、降顱內壓、腦水腫、促進毒物之尿中排除、腎小球過濾速率之測定 (診斷用)。)

Usual dose : IV infusion. Reduction of intracranial pressure - 7.5-10

ml/kg infused over 30-60 min. Reduction of intraocular pressure - 7.5-10 ml/kg over a period as short as 30 min.

Side effects : Hypotension, nausea, vomiting, angina-like chest pains, headache, dehydration, allergic reactions.

Pregnancy : Category C.

12. Antihyperlipidemic Agents

(1) Fibric Acid Derivatives

Fenofibrate

Supply : Fendown® 悅脂益 160 mg/Tab (OLIPANT)

Indications : Hypercholesterolemia, hypertriglyceridemia. (高膽固醇血症、高三酸甘油酯血症、混合型高血脂症(TYPE IIa、IIb、III、IV、V))

Usual dose : 160 mg once daily. Administer with meals.

Side effects : Diarrhea, flatulence, muscle pain, nausea, vomiting, rash, rhinitis.

Pregnancy : Category C.

(2) HMG-CoA Reductase Inhibitors

Atorvastatin

Supply : Atorin® 降脂妥 10 mg/Tab (OLIPIT1)

Indications : Hypercholesterolemia, hypertriglyceridemia, dysbetalipoproteinemia. (高膽固醇血症、高三酸甘油酯血症。)

Usual dose : Initial – 10 mg/day, dose range 10-80 mg/day.

Side effects : Headache, diarrhea, constipation, abdominal pain, myalgia, arthritis, sinusitis, mild elevations in liver enzymes.

Pregnancy : Category X.

Note : The risk of myopathy and rhabdomyolysis is increased when atorvastatin is taken concomitantly with cyclosporine, gemfibrozil, niacin, erythromycin, or azole antifungals.

Caduet® see page 44

Fluvastatin

Supply : Lescol XL® 益脂可 80 mg/Tab (OLES80)

Indications : Hypercholesterolemia, atherosclerosis. (原發性高膽固醇血症、原發性混和型血脂異常。)

Usual dose : PO 40-80mg qd.

Side effects : Headache, dyspepsia, back pain, diarrhea, abdominal pain, myalgia, nausea, vomiting.

Pregnancy : Category X.

Lactation : Not recommended.

Note : When use with Cyclosporine, Gemfibrozil, Erythromycin may cause severe myopathy or rhabdomyolysis.

Pitavastatin

Supply : Livalo® 力清之 2mg/Tab (OLIVAL)

Indications : Primary hyperlipidemia or mixed dyslipidemia. (原發性高膽固醇血症及混合型血脂異常。)

Usual dose : Initial, 2 mg ORALLY daily; MAX 4 mg daily; dosage range 1 to 4 mg daily; assess lipid levels 4 weeks after dose initiation or titration. Moderate to severe renal impairment: Starting dose of 1 mg once daily and maximum dose of 2 mg once daily.

Side effects : Myalgia, back pain, diarrhea, constipation and pain in extremity.

Pregnancy : Category X.

Lactation : Contraindication.

Rosuvastatin

Supply : Crestor® 冠脂妥 10mg/Tab (OCREST)

Indications : Primary hypercholesterolaemia, mixed dyslipidaemia (typella and lib), homozygous familial hypercholesterolaemia and hypertriglyceridemia. (高膽固醇血症、高三酸甘油酯血症。)

Usual dose : Initial, 5-10 mg orally once daily; MAX dose 40mg once daily. Concomitant gemfibrozil: do NOT exceed 10 mg/day; ClCr < 30ml/min non-dialysis: initial 5 mg QD, maintenance not exceed 10 mg /day .

Side effects : Common: headache, dizziness, constipation, nausea, abdominal pain, myalgia. Rare: myopathy and rhabdomyolysis.

Pregnancy : Category X.

Note : if taken with antacids, the antacids should be taken at least 2 hours after Crestor administration.

Vytorin® 維妥力錠 (OVYTO02)

Supply : each Tab contains

Simvastatin -----20mg

Ezetimibe -----10mg

Indications : Homozygous familial hypercholesterolemia; Primary hyperlipidemia; Mixed hyperlipidemia. (適用於同型接合子家族性高膽固醇血症 (HoFH); 原發性 (異型接合子家族性及非家族性) 高膽固醇血症或混合性高血脂症病患。)

Usual dose : Orally, Vytorin should be taken as a single daily dose in the evening.

Side effects : Headache, myalgia, diarrhea, abdominal pain, liver enzyme abnormalities; serious adverse reactions: rhabdomyolysis and myopathy.

Pregnancy : Category X.

13. Vasopressors Used in Shock

Dobutamine HCl

Supply : Gendobu® 健多博 250 mg/20ml/Vial (12.5 mg/ml) (IDOBUT)

Indications: Decompensation of chronic low-output cardiac failure, acute myocardial failure. (增強心肌收縮力而適用於短期治療器質性心臟病、心臟外科手術引起心肌收縮力抑制而導致之心臟代償機能衰竭。)

Usual dose : IV infusion 2.5-15 mcg/kg/min, up to 40 mcg/kg/min. Concentrations up to 250 mg/50ml have been administered.

Side effects : ↑ heart rate, ↑ blood pressure, ↑ ventricular ectopic activity, arrhythmias.

Pregnancy : Category B.

Note : Incompatible with alkaline solutions, ceftazidime, penicillin, heparin.

Dopamine HCl

Supply : Dopamin® 得保命 200 mg/5ml/Amp (40 mg/ml) (IDOPA02)
Gipamine® 吉利命 3mg/ml 200ml/Bag (IGIPAM)

Indications: Hemodynamic imbalances in shock syndrome. (休克症候群及心臟衰竭。)

Usual dose : Initial: 1-5mcg/kg/min .Titrate: Increase gradually using 5-10mcg/kg/min increments up to 20mcg/kg/min. Administer as a continuous infusion with the use of an infusion pump.

Side effects : Ectopic beats, tachycardia, anginal pain, palpitation.

Pregnancy : Category C.

Note : Do not add to alkaline IV solution.

Ephedrine

Supply : Ephedrine® 鹽酸麻黃素 40 mg/ml/Amp (IEPHEDR)

Indications : Hypotensive states, especially those associated with spinal anesthesia. (支氣管性氣喘、血管運動神經性鼻炎、過敏性鼻炎、脊椎麻醉導致之急性低血壓。)

Usual dose : Adults - IM or SC 25-50 mg , slow IV push 10-25 mg, additional doses may be given at 5-10 min intervals not to exceed 150 mg in 24hrs.

Pediatric - SC 3 mg/kg/day or 25-100 mg/m²/day q4-6h. IV or IM 0.2-0.3 mg/kg q4-6hrs.

Side effects : Palpitation, tachycardia, headache, vesical sphincter spasm, hypertension, psychosis, urinary retention.

Pregnancy : Category C.

Lactation : Excreted in breast milk.

Epinephrine HCl

Supply : Adrenaline® 安得理那寧 1 mg/ml/Amp (IBOSMI)

Indications : Hypersensitivity reactions, cardiac arrest, bronchospasm.

(過敏反應引起之休克，呼吸道痙攣或喉頭水腫，心跳停止之急救，支氣管性氣喘。)

Usual dose : Hypersensitivity reactions - Adults: IV 0.1-0.25 mg injected slowly; Neonates: 0.01 mg/kg; Infants: 0.05 mg. Repeat at 20 - 30 min interval. Cardiac arrest - A dose of 0.5-1 mg may be diluted to 10 ml with NaCl injection, during a resuscitation effort, IV 0.5-1 mg every 5 min.

Side effects : Tachycardia, pounding heartbeat, cerebral hemorrhage, hemiplegia, anginal pain, tremor, dizziness, pallor.

Pregnancy : Category C.

Note : Epinephrine is unstable in alkaline solution.

Storage : Protect from light.

Norepinephrine

Supply : Norepine® 心復壓 4 mg/4ml/Amp (1 mg/ml) (INOREPI)

Indications : Acute hypotensive states, cardiac arrest. (急性低血壓、心跳停止。)

Usual dose : IV infusion. Initial 8-12 mcg/min, maintenance dose 2-4 mcg/min.

Side effects : Bradycardia, anxiety, transient headache, ischemic injury.

Pregnancy : Category C.

Storage : Protect from light.

14. Peripheral Vasodilators

Nicametate Citrate

Supply : Euclidan® 優庫利暖 50 mg/Tab (OEUCL12)

Indications : Cerebrovascular or peripheral vascular diseases. (末梢血管循環障礙。)

Usual dose : 50-100 mg tid.

Side effects : Headache, dizziness, GI complaints, jaundice, flushing.

Nicergoline

Supply : Acerine® 抑血凝 5mg/Tab (OACERI)

Indications : 末梢血管循環障礙。

Usual dose : 5-10 mg tid.

Side effects : Hypotension, dizziness, GI complaints, flushing.

Pentoxifylline

Supply : Pentop SR® 循妥斯 400 mg/Tab (OPENT01)

Indications : Cerebrovascular or peripheral vascular diseases, intermittent claudication. (末稍血管循環障礙。)

Usual dose : PO - 400 mg tid, if GI and CNS side effect occur, decrease to 400 mg bid.

Side effects : Dyspepsia, dizziness, nausea, vomiting, headache.

Pregnancy : Category C.

Lactation : Excreted in breast milk.

15. Miscellaneous

Midodrine

Supply : Midorine® 邁妥林 2.5mg/Tab (OMIDO)

Indications : Symptomatic orthostatic hypotension. (體質性血壓過低、直立性循環系統失調，病後、手術後及產後之血壓過低。)

Usual dose : 2.5mg PO BID-TID, MAX dose: 40 mg/day.

Side effects : Common: Hypertension, piloerection, pruritus, shivering, paresthesia, dysuria, urinary retention, urinary frequency.

Pregnancy : Category C.

Note : Do not administer after evening meal or less than 4 hours before bedtime.

Sildenafil

Supply : Revatio® 瑞肺得 20mg/Tab (OSILD20)

Indications : Pulmonary arterial hypertension (WHO Group I) to improve exercise ability. (成人肺動脈高血壓(WHO Group I)之治療以改善運動能力。)

Usual dose: Pulmonary hypertension: 20 mg ORALLY 3 times daily; give doses approximately 4 to 6 hr apart, with or without food. In the clinical trial no greater efficacy was achieved with the use of higher doses. Treatment with doses higher than 20 mg t.i.d. is not recommended.

Side effects : Flushing, rash, dizziness, headache, nasal congestion. Adverse effects such as flushing, diarrhea, myalgia, and visual disturbances may be increased with doses >100 mg/24 hours.

IV. Hematologic Drugs

1. Iron Products

Ferric-hydroxide-sucrose complex

Supply : Fe-Back® 鐵補 5ml/Vial (IFEBA01)

Indications : 急、慢性失血、貧血、手術後鐵質缺乏症。

Usual dose : IV infusion, dilute in 0.9% NaCl

Amount of Fe-Back	Volume of dilution	IV drip time
2.5 ml	Max. 100ml	> 15 min
5 ml	Max. 100ml	> 15 min
10 ml	Max. 250ml	> 30 min

Side effects : Allergy, pruritus.

Iron (Hydroxide polymaltose complex)

Supply : HOTE® 好鐵咀嚼錠 100mg/Tab (OIRON)

Indications : Iron deficiencies of all origins, iron deficiency anemia. (預防及治療鐵質缺乏症、缺鐵性貧血症。)

Usual dose : 1 tab, qd. May increase to 1 tab, bid.

Wanse® 旺血 (OFEG)

Supply : each Tab contains

Ferrous fumarate-----100mg

Cyanocobalamin (VIT B12)-----4mcg

Folic acid-----2mg

Indications : 一般貧血。

Usual dose : 1-2 Tab TID.

Side effects : Nausea, vomiting, constipation, diarrhea.

2. Recombinant Human Erythropoietin

Darbepoetin alfa

Supply : NESP® 耐血比 20mcg/0.5ml/Syringe (INESP)

Indications : Treatment of anemia associated with chronic renal failure (CRF), including patients on dialysis (ESRD) and patients not on dialysis; anemia associated with chemotherapy for nonmyeloid malignancies. (治療與慢性腎臟功能失調有關的貧血症狀或因此而需要輸血的患者，治療與癌症化學治療有關的症狀性貧血。)

Usual dose : Initial: 0.45 mcg/kg once weekly, titration to response; some patients may respond to doses given once every 2 weeks.

Side effects : Hypertension, hypotension, edema, seizure, fever, omiting, abdominal pain, nausea, dyspnea, thrombosis, rash, pruritus.

Pregnancy : Category C.

Storage : Store at 2-8°C, Do not freeze or shake.

3. Anticoagulants

Dabigatran

Supply : Pradaxa® 普栓達 110 mg/Cap (ODABIG1)

Pradaxa® 普栓達 150 mg/Cap (ODABIGA)

Indications : Prevention of stroke and systemic embolism in patients with non-valvular atrial fibrillation. (預防非瓣膜性心房纖維顫動病患發生中風與全身性栓塞。)

Usual dose : 110-150 mg taken orally, twice daily. For patients with a higher risk of bleeding, e.g. age ≥ 75 years, CHADS 2 score of ≥ 3 , body weight < 50 kg, previous gastro-intestinal bleed or moderate renal impairment (CrCL:30-50 ml/min): 110 mg PO BID.

Side effects : Most common adverse reactions are gastritis-like symptoms and bleeding (8% to 33%; major: $\leq 6\%$).

Pregnancy : Category C.

Note : Do not break, chew, or open capsules, as this will lead to 75% increase in absorption and potentially serious adverse reactions.

Edoxaban

Supply : Lixiana® 里先安 60 mg/Tab (OEDOXA)

Indications : 1. Nonvalvular atrial fibrillation: To reduce the risk of stroke and systemic embolism (SE) in patients with nonvalvular atrial fibrillation (NVAF). 2. Deep vein thrombosis and pulmonary

embolism: treatment of deep vein thrombosis (DVT) and pulmonary embolism (PE) following 5 to 10 days of initial therapy with a parenteral anticoagulant. (1.預防非瓣膜性心房纖維顫動合併以下至少一項危險因子之病患發生中風及全身性栓塞。危險因子包括：鬱血性心臟衰竭、高血壓、年齡 ≥ 75 歲、糖尿病、先前曾發生中風或暫時性腦缺血(TIA)。2.在初始5到10日的非經腸道抗凝血藥物治療後，Lixiana可用於治療靜脈栓塞(VTE)。包括深層靜脈栓塞(DVT)及肺栓塞(PE)。)

Usual dose : Nonvalvular atrial fibrillation (NVAF): Oral: 60 mg once daily. Administer without regard to food. Deep vein thrombosis and pulmonary embolism: Oral: 60 mg once daily after 5 to 10 days of initial therapy with a parenteral anticoagulant. Patient weight ≤ 60 kg: 30 mg once daily. Concomitant P-glycoprotein (P-gp) inhibitors in DVT or pulmonary embolism: 30 mg orally once daily; P-gp inhibitors include quinidine, verapamil, azithromycin, clarithromycin, erythromycin, itraconazole, and ketoconazole; reinstate 60 mg once daily if P-gp inhibitor discontinued and no other indication for reduced dose exists.

Side effects : Hemorrhage, anemia, abnormal hepatic function tests, epistaxis, rash.

Pregnancy : Category C.

Enoxaparin

Supply : Clexane® 克立生 6000 Anti-Xa IU/0.6ml/syringe (ICLEX05)

Indications : Deep vein thrombosis(DVT), pulmonary embolism, unstable angina/Non-Q-wave MI. (治療深部靜脈血栓、與 A S P I R I N 併用以治療不穩定狹心症及非 Q 波之急性心肌梗塞。適用於年齡 75 歲以下，腎功能 (Ccr) 大於 60 ml/min，ST-波段升高的急性心肌梗塞的病患，不論患者隨後是否接受冠狀動脈血管成形術，皆可與血栓溶解劑併用。)

Usual dose : Unstable angina or non-ST-elevation MI (NSTEMI): SC 1 mg/kg every 12 hours in conjunction with oral aspirin therapy; continue for the duration of hospitalization (a minimum of at least 2 days) or up to 8 days. Prevention of DVT and PE after hip replacement surgery: SC 30 mg bid for 7-10 days started 12-24h post-OP or 40 mg once daily starting 12 h pre-OP. Prevention of DVT and PE after knee replacement surgery: SC 30 mg bid for 7-10 days started 12-24h post-OP. Prevention of DVT and PE after abdominal surgery: SC 40 mg once daily for 7-10 days started 2h before surgery. Active DVT treatment with and without PE: 1 mg/kg q12 h or 1.5 mg/kg daily initiated with warfarin therapy; continue for at least 5 days.

Side effects : Hemorrhagic complications, anemia.

Pregnancy : Category B.

Heparin

Supply : Heparin® 海派 25000U/5ml/Vial (5000 U/ml) (IHEPAC)

Indications : Prophylaxis and treatment of thrombo-embolism, anticoagulation. (血栓性栓塞症及其預防、抗凝血。)

Usual dose : Adults - SC: Initial 10000-20000 U, then 8000-10000 U q8h or 15000-20000 U q12h; Intermittent IV: initial 10000 U, then 5000-10000 U q4-6h; IV infusion: 20000-40000 U/day. Children - initial 50 U/kg IV bolus, maintenance 100 U/kg/dose IV drip q4h or 20000 U/m²/24h continuous IV infusion.

Side effects : Hemorrhage, chills, urticaria, thrombocytopenia, local irritation.

Pregnancy : Category C.

Lactation : Not excreted into breast milk.

Note : The most common test used to monitor heparin's effect is APTT.

Tinzaparin

Supply : Innohep® “理奧” 低肝脂鈉 10000IU/ml 20ml/Vial (INNOHEP)

Indications : (1) 治療深層靜脈栓塞。(2) 預防一般手術和骨科手術後產生深層靜脈栓塞。(3) 預防體外循環和血液透析時留置靜脈導管產生血塊。

Usual dose : Deep venous thrombosis : 175 international units anti-Xa/kg SC once daily.

Side effects : Erythema, local pain, local Irritation, urinary tract infection,

pulmonary embolism, chest pain.

Pregnancy : Category B.

Rivaroxaban

Supply : Xarelto® 拜瑞妥 10 mg/Tab (OXARE10)

Xarelto® 拜瑞妥 15 mg/Tab (OXARE15)

Indications : Prevention of venous thromboembolism (VTE) in patients with high risk of VTE, having the history of symptomatic VTE, undergoing major orthopedic surgery of the lower limbs. (1.用於非瓣膜性心房顫動(non-valvular atrial fibrillation)且有下列至少一項危險因子者成人病患,預防中風及全身性栓塞(systemic embolism)。危險因子例如:心衰竭、高血壓、年齡大於等於75歲、糖尿病、曾發生腦中風或短暫性腦缺血發作(transient ischemic attack)。2. Rivaroxaban 10mg用於靜脈血栓高危險群(曾發生有症狀之靜脈血栓症)病患,以預防其於接受下肢重大骨科手術後之靜脈血栓栓塞症(VTE)。)

Usual dose: Orally, 10 mg once daily, initial dose should be administered within 6-10 hours after completion of surgery and establishment of hemostasis. It may be taken with or without food. After major hip surgery patients should be treated for 5 weeks. After major knee surgery patients should be treated for 2 weeks.

Side effects : Bleeding: Major: (<1% to 2%, includes surgical site bleeding events with decreased hemoglobin or transfusion); Non major: (4% to 7%), anemia (1%), increased GGT(1%), increase in transaminases(2%; ALT >3 X upper limit of normal : 2% to 6%), nausea(1%).

Pregnancy : Category X.

Warfarin Sodium

Supply : Mafarin® 脈化寧 5 mg/Tab (OWARFA)

Indications : Prophylaxis and treatment of thrombo-embolism, anticoagulation. (預防及/或治療靜脈栓塞症及其相關疾病,以及肺栓塞;預防或治療因心房纖維顫動及/或更換心臟瓣膜引起之血栓性栓塞症。)

Usual dose : Initial, 2 to 5 mg PO once a day; Peak PT effect is in 36-72 hr; at least 4-6 days of warfarin therapy are required before full therapeutic effect is achieved.

Side effects : Hemorrhage, pyrexia, dermatitis, urticaria, alopecia.

Pregnancy : Category X.

Lactation : Excreted in breast milk. (Usually compatible)

Note : 1. May cause a red-orange discoloration of urine.

2. The effects may be reduced by Barbiturates, Rifampin.

3. The effects may be increased by Amiodarone, Erythromycin, Baktar, Metronidazole, Salicylates, Vitamin E.

4. Regular monitoring of INR should be performed on all treated patients.

4. Antiplatelet Agents

Aggrenox® 腦康平 (OAGGRE)

Supply : each Tab contains

Aspirin -----25mg

Dipyridamole -----200mg

Indications : Prophylaxis for cerebrovascular accident in patients with history of stroke or transient ischemia of the brain. (用於曾因血栓引起腦部短暫缺血或完全缺血中風病人、減少中風之再復發。)

Usual dose : One Cap twice daily, in the morning and evening.

Side effects : Headache (38%), abdominal pain (18%), dyspepsia, nausea (16%), diarrhoea (13%), vomiting (8%), arthralgia (6%), and fatigue (6%).

Pregnancy : Category D.

Note : 1.膠囊整顆吞服，可打開膠囊，但不可咬碎或磨碎顆粒。

2. Aggrenox膠囊內含白色Aspirin錠劑一粒及黃色Dipyridamole緩釋小微粒，遇管灌病人時，可將白色錠劑磨粉溶於10ml水中管灌，其他黃色微粒同樣以10ml水配成懸浮液管灌，之後再立即以20ml水沖管路確保所有藥物皆進入胃中。

Aspirin

Supply : Bokey® 伯基 100 mg/Cap (OBOKEY1)

Indications : Platelet aggregation inhibitor. (預防心肌梗塞，預防血栓性栓塞症，短暫性缺血性發作。)

Usual dose : Platelet aggregation inhibitor – 1 Cap qd.

Side effects : Nausea, vomiting, heartburn, ↑ bleeding time, allergy.

Pregnancy : Category C (D if full-dose aspirin used in 3rd trimester).

Lactation : Excreted in breast milk. (Caution)

Note : 1. May increase the effects of Warfarin, Heparin.

2. 整粒吞服或打開膠囊但不可咬碎或磨碎顆粒

Cilostazol

Supply : Pletaal® 普達錠 100 mg/Tab (OCILOS)

Citazol® 健立達錠 50 mg/Tab (OPLETA)

Indications : Intermittent claudication. (使用於無休息時疼痛及周邊組織壞死之間歇性跛行病人(周邊動脈疾病Fontaine stage II)，用於增加最大及無痛行走距離及經生活模式改變(包含戒菸及運動計畫)及其他治療後，仍無法充分改善間歇性跛行症狀病人之二線治療。無法耐受aspirin且屬非心因性堵塞之腦梗塞患者，以預防腦梗塞之再復發。)

Usual dose : 100 mg bid. Dosage should be reduced to 50 mg twice daily during concurrent therapy with inhibitors of CYP3A4 or CYP2C19 (e.g., diltiazem, ketoconazole, itraconazole, erythromycin, omeprazole).

Side effects : Headache, dizziness, palpitation, diarrhea, infection,

abdominal stool, rhinitis.

Pregnancy : Category C.

Note : Patients receiving cilostazol should avoid consuming grapefruit juice.

Clopidogrel

Supply : Clopidogrel Sandoz® 舒栓寧 75 mg/Tab (OPLAVI)

Plavix® 保栓通 75 mg/Tab (OPLAV00)

Plavix® 保栓通 300 mg/Tab (OPLA300)

Indications : Atherosclerotic events. (降低近期發生中風、心肌梗塞或周邊動脈血管疾病的粥狀動脈硬化病人之粥狀動脈栓塞事件(如：心肌梗塞、中風或其他因血管病變引起的死亡)的發生。與 ASPIRIN 併用降低非 ST 段上升之急性冠心症(不穩定性心絞痛和非 Q 波型心肌梗塞)病人(包括經皮冠狀動脈介入性治療後放置支架的患者)之粥狀動脈栓塞事件。與 ASPIRIN 併用可用於以內科治療的 ST 段上升之急性心肌梗塞病人。)

Usual dose : 75 mg qd. Acute coronary syndrome (unstable angina/non-Q-wave MI): Initiate a single 300 mg loading dose, then 75 mg qd.

Side effects : Headache, dizziness, skin/appendage disorders, GI-disturbances, hemorrhage, arthralgia, upper respiratory tract infection

Pregnancy : Category B.

Dipyridamole

Supply : Anginar® 立達脈 25 mg/Tab (ODIPYRI)

Sancin® 暢心 50 mg/Tab (OSANCIN)

Indications : Thromboembolic complications, in combination with aspirin to prevent myocardial reinfarction. (對於慢性狹心症之治療可能有效。)

Usual dose : Adjunctive use in prophylaxis of thromboembolism - PO 75-100 mg qid.

Side effects : Dizziness, headache, diarrhea, vomiting, flushing, rash.

Pregnancy : Category B.

Lactation : Excreted into breast milk in low concentrations.

Ticagrelor

Supply : Brilinta® 百無凝 90 mg/Tab (OTICA00)

Indications : Used in conjunction with aspirin for secondary prevention of thrombotic events in patients with unstable angina (UA), non-ST-elevation myocardial infarction (NSTEMI), or ST-elevation myocardial infarction (STEMI) managed medically or with percutaneous coronary intervention (PCI) and/or coronary artery bypass graft (CABG). (Brilinta 與 Aspirin 併用，可減少急性冠心症(包括不穩定型心絞痛、非 ST 段上升型心肌梗塞或 ST 段上升型心肌梗塞)患者之栓塞性心血管事件的發生率。)

Usual dose : Ticagrelor loading dose is 180 mg orally once plus aspirin (usually 325 mg), followed by a maintenance dose of ticagrelor 90 mg

twice daily with aspirin 75 to 100 mg once daily.

Side effects : Dyspnea (13.8%); Major and minor bleeding (8.7%); serum creatinine increased (7%; mechanism undetermined).

Pregnancy : Category C.

Ticlopidine HCl

Supply : Menchuan® 免栓 100 mg/Tab (OMENC00)

Indications : Thrombo-embolic disorders. (適用於曾發生完成性栓塞型中風及有中風前兆且不適於使用 aspirin 之患者。不能忍受 aspirin 的慢性阻塞性動脈疾病。)

Usual dose : 100 mg bid-tid.

Side effects : Neutropenia, thrombocytopenia, leukopenia, agranulocytosis, pancytopenia, thrombocytopenic purpura, hemorrhage, dizziness, nausea, vomiting, abdominal cramps, dyspepsia, flatulence, anorexia, liver damage, rash, urticaria.

Pregnancy : Category B.

5. Thrombolytic Agents

Tissue Plasminogen Activator (t-PA, Recombinated)

Supply : Actilyse® 栓體舒 50 mg/Vial (IACTIL)

Indications : Acute myocardial infarction, acute ischemic stroke, pulmonary embolism. (急性冠狀動脈阻塞之血栓溶解、急性大片肺栓塞、急性缺血性中風之血栓溶解。)

Usual dose : IV infusion for post myocardial infarction clot lysis: 15 mg as a bolus, followed by 0.75 mg/kg(up to 50 mg) over 30 min, then 0.5 mg/kg(up to 35 mg) over the next 60 min.

Side effects : Bleeding complications, reperfusion arrhythmias and reinfarction are the primary concerns of therapy; systemic fibrinolysis is less than that seen with streptokinase.

Pregnancy : Category C.

Note: 1. 不可以使用含抑菌劑的注射用水稀釋，配製後 8 hr 內用完。

2. 溶液不可用力搖，以免起泡。

Urokinase

Supply : 血栓溶素 60000 IU/Vial (IUOKI)

Indications : Pulmonary embolism, coronary artery thrombosis. (急性冠狀動脈阻塞、清潔靜脈導管、急性肺栓塞。末梢動脈、靜脈栓塞症。)

Usual dose : *Pulmonary embolism* - 4400 IU/kg as an admixture of urokinase with 0.9% N/S or 5% dextrose at a rate of 90 ml/hr over 10 min. Follow by continuous infusion of 4400 IU/kg/hr at a rate of 15 ml/hr for 12 hrs.

Side effects : Hypotension, bleeding tendency, allergic reactions.

Pregnancy : Category B.

6. Blood Derivatives

Albumin

Supply : Albuminar-20® 愛默人體血清白蛋白 20% 50 ml/BT (IALBU2)

Indications : Hypoalbuminemia, burns, plasma volume expansion, shock.
(低蛋白血症、休克、燒傷。)

Usual dose : Burns: 20 % or 25% solution IV, to achieve plasma albumin level of about 2.5 gm/dl. Hypovolemic Shock: 100-200 ml of 20% or 25% solution IV, may repeat in 15-30 min.

Side effects : Allergic reactions, chills, fever, hypotension, hypertension.

Pregnancy : Category C.

7. Blood Substituents

Dextran® 低分子血賜多朗 (IDEXTRA)

Supply : 500 ml/BT, each BT contains

Dextran 40-----	50 g
Glucose-----	25 g

Indications : Adjunct for plasma volume expansion in shock. (出血時之血漿增量劑。)

Usual dose : IV only, 10-20 ml/kg/day.

Side effects : Mild cutaneous eruptions, hypotension, nausea, vomiting, dyspnea, headache, hypersensitivity reactions.

Pregnancy : Category C.

Gelofusine® 佳樂施 (IGELOF)

Supply : 500 ml/BT, each 1000ml contains)

Succinylated gelatin -----	40g
Sodium Chloride-----	7.01g
Sodium hydroxide-----	1.36g

Indications : Treatment and prevention of hypovolemia including absolute hypovolemia hemorrhage. It is also employed as a plasma volume expander. (急性出血、手術或外傷所引起之休克。)

Usual dose : The first 20-30 ml should be infused slowly, Max. 20 ml/kg/day.

8. Hemostatics

Phytonadione (Vitamin K₁)

Supply : 維他命K1 10 mg/1ml/Amp (IVITAK1)

Indications : Coagulation disorders caused by faulty formation of factors II, VII, IX and X when caused by vitamin K deficiency or interference with vitamin K activity, hemorrhagic disease of the newborn. (子宮腔部出血、產褥子宮出血、不正常子宮出血、月經過多、肝臟及胃腸障礙傳染性疾病所致出血及出血傾向等疾病、新生兒出血性素質及出血症未成兒早產兒、異常分娩兒、人工營養兒的出血性傾向、新生兒手術時的出血、藥物所引起低凝血酶元血症的出血等。)

Usual dose : SC or IM. Anticoagulant-induced prothrombin deficiency in adults - 2.5-10 mg up to 25 mg. Hemorrhagic disease of the newborn - prophylaxis: single IM dose of 0.5-1mg within 1 hr after birth; treatment: 1 mg SC or IM.

Side effects : Anaphylactoid reactions, pain, swelling and tenderness at the injection site.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Storage : Protect from light.

Note : 1. Benzyl alcohol contained products have been associated with toxicity in newborns.

2. Severe reactions have occurred during and immediately after IV injection.

Tranexamic Acid

Supply : Trand® 血迅 250mg/Cap (OTRANS)

Transamin® 川斯敏 250 mg/5ml/Amp (50 mg/ml) (ITRAN03)

Indications : Hemorrhage. (全身及局部出血或出血性疾病。)

Usual dose : PO 1-1.5gm BID-TID, dosage reduced in renal failure.

IV, usual dose is 0.5 to 1g (10 to 15mg/kg) given 2 to 3 times daily, starting immediately after surgery; and after a few days, 1 to 1.5g orally 3 to 4 times daily.

Side effects : Diarrhea, headache, hypotension, heartburn, dizziness, pruritus, erythema, skin rash, nausea, nasal stuffiness, diuresis, muscle pain, weakness, intrarenal obstruction.

Pregnancy : Category B.

Lactation : Excreted in breast milk.

Note : Hypotension has been observed when IV injection is too rapid, injection rate not more than 1 ml/min.

V. Metabolic and Nutrient Agents

1. Vitamins

All-right Ca® 優乳鈣 (OALLRCA)

Supply : 180ml/Bot, each ml contains

Calcium phosphate tribasic-----103mg

Vitamin A-----1600IU

Vitamin D3-----160IU

Indications : 鈣及維生素A、D缺乏症之治療。

Usual dose : 10-15ml daily.

Calcitriol

Supply : U-CA® 活維D 0.5mcg/Cap (OHICAL)

Indications : For the management of hypocalcemia in patients undergoing chronic hemodialysis for renal failure, Renal osteodystrophy, and osteomalacia secondary to vitamin D deficiency due to intestinal malabsorption. (慢性腎衰竭引起之低血鈣、佝僂症、軟骨症、維他命D缺乏症。)

Usual dose : Chronic renal failure: oral, 0.25mcg/day (may require 0.5-1 mcg/day). Hypoparathyroidism: 0.5-2 mcg/day PO. Vitamin D-dependent rickets: 1 mcg/day.

Side effects : Hypercalcemia; oral form may cause hypersensitivity reactions (pruritus, rash, urticaria, erythema multiforme).

Dailycare actibest® 沛多活杏必 (OBCOM01)

Supply : Each Tab contains

Thiamine disulfide-----50mg

Riboflavin (=VIT B2)-----5mg

Pyridoxine-----5mg

Cyanocobalamin (Vitamin B₁₂)-----10mcg

Indications : 神經炎、多發性神經炎、末梢神經麻痺、營養障礙隨伴之神經疾患、腳氣、視神經炎、妊娠惡阻、貧血。

Usual dose : 1-3 Tab daily.

Folic Acid

Supply : 葉酸 5 mg/Tab (OFOLICA)

Indications : Megaloblastic anemia. (惡性貧血、妊孕性貧血、小兒巨大紅血球貧血及骨髓增生或衰退引起之貧血。)

Usual dose : Adults - 1 Tab qd. Children(<4years) - 0.3 mg/day.

Resistant cases may require larger doses.

Side effects : Irritability, abdominal distention, bitter taste, skin rash.

Pregnancy : Category A (<0.8 mg/day), Category D (>0.8 mg/day).

Lactation : Excreted in breast milk. (Usually compatible)

Hi-Beston® 愛-必賜康 (OHIBEST)**Supply :** Each Tab contains

Beston-----	50 mg
Riboflavin (Vitamin B ₂)-----	5mg
Pyridoxine HCl (Vitamin B ₆)-----	5mg
Cyanocobalamin (Vitamin B ₁₂)-----	5mcg

Indications : Treatment of vitamin B₁, B₂, B₆, B₁₂ deficiency. (神經炎、多發性神經炎、腳氣病、維他命 B₁ B₂ B₆ B₁₂ 缺乏症、妊娠所引起之維他命 B₁ 缺乏症。)**Usual dose :** 1Tab qd-tid.**Mecobalamin (Vitamin B₁₂ Substance)****Supply :** Mecomin® 美可敏 0.5mg/Cap (OMETHC)**Indications :** Peripheral neuralgia, antianemic agent. (末梢性神經障害。)**Usual dose :** PO - 250-500 mcg tid.**Side effects :** Severe optic nerve atrophy.**Phytonadione (Vitamin K₁)** see page 61**Pyricobamin® 倍利敏痛 (IBESTON)****Supply :** 10ml/Amp, Each Amp contains

Thiamine Disulfide-----	50mg
Pyridoxine HCl (Vitamin B ₆)-----	100mg
Hydroxocobalamin-----	1mg

Indications : 神經痛、神經炎、多發性神經炎、關節痛、末梢神經麻痺、營養性貧血。**Usual dose :** IV 10ml daily.**Pyridoxine HCl (Vitamin B₆)****Supply :** 維六素錠 50 mg/Tab (OB6)**Indications :** Vitamin B₆ deficiency, nausea and vomiting in pregnancy. (妊娠引起之噁心、嘔吐、皮膚炎、維他命 B₆ 缺乏症。)**Usual dose :** Deficiency: 5-25 mg/day PO for 3 weeks, followed by 1.5-2.5 mg/day in a multivitamin preparation QD. Drug-induced vitamin B₆ Deficiency: 100 mg/day for 3 weeks, followed by 30 mg/day for maintenance.**Side effects :** Sensory neuropathic syndromes, decreased sensation.**Pregnancy :** Category A. (C if more than RDA).**Lactation :** Excreted in breast milk. (Usually compatible)

2. Electrolytes and fluids

All-right Ca® see page 62

Calcium Carbonate

Supply : 碳酸鈣 500 mg/Tab (OCACO3)

Indications : Hypocalcemia, hyperphosphatemia, hyperacidity

Usual dose : 1-4 Tab, 3-4 times daily.

Side effects : Hypercalcemia

Pregnancy : Category C.

Calcium Gluconate

Supply : 葡萄糖鈣丁 500mg/Tab (OCALACT)

Indications : 鈣、磷質缺乏引起之軟骨症、皮膚病、妊婦、哺乳期鈣質之補給。

Usual dose : 1Tab, tid.

Glucose

Supply : Glucose® 5% 500 ml/BT (IGLU5%B)

Vitagen® 美達研 5% 250 ml/Bot (IGLU250)

Glucose® 10% 500 ml/BT (IGLU10%)

Vitagen® 美達研 50% 20 ml/Amp (IGLU50%)

Indications : Management of hypoglycemia, glucose supplement. (病中病後、嘔吐、胃腸障礙、失去知覺時之營養補給。)

Usual dose : The concentration and dose depend on the pt's age, weight and clinical condition.

Glucose in Sodium Chloride

Supply :

藥品名稱	成分含量	規格量	醫令
PU-I Replenisher no.1 益輸液1號	5% Glucose in 0.33% NaCl	500ml /BT	IGS0.33B
葡萄糖氯化鈉5%+0.9%	5% Glucose in 0.9% NaCl	500ml /BT	IGS0.9%

Indications : Management of hypoglycemia, glucose supplement. (水份電解質不能經口攝取時、嘔吐、腹瀉所引起之水份不足。)

Nako No. 2 (南光二號) (INAKO2)

Supply : 500 ml/BT

Nako No. 5 (南光五號) (INAKON5)

Supply : 500 ml/BT

單位 : meq/L

南光	葡萄糖 g/l	Ca ⁺⁺	Na ⁺	K ⁺	Mg ⁺⁺	Cl	P	Acetate
No2	33	-	40	12	-	26	6	20
No5	100	-	36	18	3	17	12	28

Potassium Chloride

Supply : 氯化鉀 15% 20 ml/Amp (IKCL15)

Indications : Hypokalemia. (治療鉀缺乏症。)

Usual dose : Prevention of hypokalemia: 20 mEq/day, Potassium depletion: 40-100mEq/day IV administration in peripheral vein(serum K⁺ > 2.5mEq/L) may be infused at 10-20 mEq/hr; do not exceed a maximum concentration of 40 mEq/L. IV administration in central vein(serum K⁺ < 2.5mEq/L) may be infused at 30-60 mEq/hr; do not exceed a maximum concentration of 80 mEq/L.

Side effects : Hyperkalemia, flaccid paralysis, mental confusion, cardiac depression, cardiac arrhythmias.

Pregnancy : Category C.

Note : Do not direct IV undiluted KCl.

Potassium Gluconate

Supply : Radi-K® 鉀順 595mg/Tab (K=2.54mEq/Tab) (OPOTASS)

Indications : Hypokalemia. (血鉀過低症 (因手術前後、使用藥物、瀉肚、心臟病引起之血鉀過低症。))

Usual dose : Prevention of hypokalemia (20mEq/day) or Potassium depletion (40-100mEq/day).

Side effects : Hyperkalemia, May cause GI upset (eg, nausea, vomiting, diarrhea, abdominal pain, discomfort) and lead to GI ulceration, bleeding, perforation and/or obstruction.

Ringer's Solution

Supply : 林格爾氏液 500 ml/BT, each ml contains (IRING2)

Sodium Chloride-----8.6 mg

Potassium Chloride-----0.3 mg

Calcium Chloride Dihydrate-----0.33 mg

Indications : Parenteral volume expansion. (手術時之出血、腹膜炎、火傷、胃腸潰瘍、傷寒、赤痢、大腸炎、敗血症及各種中毒時之營養及水份缺乏症。)

Usual dose : IV infusion, dose depends on patient's condition.

Sodium Bicarbonate

Supply : Sodium Bicarbonate® 碳酸氫鈉 300mg/tab (OSODBI)
碳酸氫鈉注射液 7% 20 ml/Amp (contains HCO₃16.67
mEq/Amp) (ISODI01)

Indications : Cardiac arrest, metabolic acidosis. (代謝性酸中毒之鹼化劑)

Usual dose : Antacid: PO, 0.3-2g QD up to QID, not exceed 16 gm per day. Urine alkalization: Children: 1-10 mEq (84-840 mg)/kg/day divided doses ; Adults: 48 mEq(4 gm) initially, then 12-24 mEq(1-2 gm) Q4H; MAX dose: 17 gm/day in patients <60 yrs and 8 gm in patients >60 yrs. Metabolic acidosis: Neonates: 1-3 mEq/kg/dose slowly(over 20-60 min) Older children and Adults : 2-5 mEq/kg/dose over 4-8 hours infusion

Side effects : Belching, gastric distension, flatulence, edema, metabolic alkalosis, hypernatremia, hypokalemia, hypocalcemia, edema, metabolic alkalosis, tissue necrosis when extravasated.

Pregnancy : Category C.

Note : 1.Avoid adding to parenteral solutions containing calcium.
2.Norepinephrine and dobutamine are incompatible.

Sodium Chloride (氯化鈉)

Supply : 0.45% 500 ml/BT (INS0.45)
0.9% 20 ml/Amp (INS045P)
0.9% 20 ml/Amp (INS20)
0.9% 250 ml/BT (INS250)
0.9% 250 ml/Bag 軟袋包 (INS250B)
0.9% 500 ml/BT (INS500B)
0.9% 1000 ml/Bag 軟袋包 (INS1000)
3% 500 ml/BT (INS3)

Vitalcal® 美達加祿 (IGLUCAL)

Supply : 20 ml/Amp, each ml contains
Calcium Chloride-----20 mg
Glucose-----100 mg

Indications : Treatment of acute symptomatic hypocalcemia; cardiac disturbances of hyperkalemia or hypocalcemia; emergent treatment of hypocalcemic tetany; treatment of severe hypermagnesemia. (低血鈣症狀之治療與改善。)

Usual dose : IV, 10-20 ml QD ; For I.V. administration only, avoid extravasation.

Side effects : Irritating to the veins, bradycardia, hypotension, syncope, vasodilation, hypercalcemia.

3. Parenteral Nutritions

Aminol-S® 胺美樂 (IAMINS)

Supply : 500 ml/BT

Indications : Amino acids supplement. (蛋白質、電解質及水分的補給。)

Usual dose : Depends on patient needs.

Amiyu® 安命優 (IAMiyu)

Supply : 200ml/Bot, each ml contains Nitrogen 9mg

Indications : Essential amino acids supplement in chronic renal failure.

(急、慢性腎不全時氨基酸之補給。)

Usual dose : Chronic renal insufficiency: 200 ml IV QD, at rate of 200 ml/2-3 hours (15-25 drop/min); Acute renal insufficiency: 200-400 ml slow IV.

Nepthrosteril® 腎福諾 (INEPHRO)

Supply : 250 ml/BT

Indications : Amino acids supplement. (不能攝取適當食物之患者之補助治療劑，蛋白質之消化吸收機能或合成利用障礙，嚴重創傷火傷骨折時蛋白質之補給，蛋白質攝取減少之營養失調症。)

Usual dose : Depends on patient needs.

	Aminol-S 500ml/BT	Amiyu 200ml/BT	Nepthrosteril 250ml/BT
Isoleucine(mg/100ml)	288	720	510
Leucine(mg/100ml)	327	1125	1030
Lysine(mg/100ml)	432	1155(Acetate)	1001(Acetate)
Methionine(mg/100ml)	288	1125	280
Phenylalanine(mg/100ml)	192	1125	380
Threonine(mg/100ml)	96	515	480
Tryptophan(mg/100ml)	—	255	190
Valine(mg/100ml)	288	820	620
Alanine(mg/100ml)	300	—	630
Arginine(mg/100ml)	—	—	490
Histidine(mg/100ml)	150	560	430
Proline(mg/100ml)	—	—	430
Serine(mg/100ml)	—	—	450
Cysteine(mg/100ml)	—	—	37
Glycine(mg/100ml)	447	—	—
Malic acid(mg/100ml)	—	—	150
Glacial acetic acid(mg/100ml)	—	—	138
Sorbital (mg/100ml)	5000	—	—

4. Miscellaneous

Calcium polystyrene sulfonate

Supply : Chalian® 鉀利安粉 9% 5g/Pack (OCHALIA)

Indications : Hyperkalemia. (急性及慢性腎不全隨伴之高血鉀症。)

Usual dose : PO: Adults 15-30 g daily divided in 2-3 times.

Side effects : Gastric irritation, anorexia, constipation, hypokalemia

VI. Hormones and Synthetic Substitutes

1. Glucocorticoids

Glucocorticoid	Approximate equivalent dose (mg)	Relative glucocorticoid potency	Relative mineralocorticoid potency
Short acting			
Hydrocortisone	20	1	2
Intermediate acting			
Prednisolone	5	4	1
Triamcinolone	4	5	0
Methylprednisolone	4	5	0
Long acting			
Dexamethasone	0.75	20-30	0

Indications : Treatment of inflammation, dermatologic, autoimmune, allergic, respiratory, hematologic, neoplastic diseases.

Side effects : Electrolyte disturbance, muscle weakness, convulsion, thromboembolism, arrhythmias, abdominal distension, amenorrhea, ↑ IOP, anaphylactoid reactions.

Dexamethasone

Supply : Methasone® 敏速平 5mg/ml/Amp (IDECA)

Usual dose : Cerebral edema: initial, 10 mg IV, followed by 4 mg IM or IV Q6H until symptoms of cerebral edema subside.

Chemotherapy-induced nausea and vomiting: prophylaxis: 20 mg IV before chemotherapy, 8 mg IV or oral twice a day for 3 days after chemotherapy.

Pediatrics: IM, or IV as an anti-inflammatory or immunosuppressive 0.03-0.15 mg/kg/day divided Q6-12H; IM, or IV for cerebral edema 1.5 mg/kg once, then 1.5 mg/kg/day divided Q4-6H for 5 days, then taper over the next 5 days and discontinue.

Pregnancy : Category C.

Note : Dexamethasone with D5W or NS (which is recommended as a diluent for intravenous infusions of dexamethasone); due to the absence of preservatives in this infusion, solution should be used within 24 hours.

Hydrocortisone Sodium Succinate

Supply : Hydrocortisone® 舒爾體爽 100 mg/Vial (IHYDROC)

Usual dose : IM or IV infusion, Initially 100-500 mg, may be repeated at 2, 4 or 6 hour intervals as clinical needs.

Pregnancy : Category D.

Prednisolone**Supply** : Prednisolone® 樂爾爽 5 mg/Tab (OPREDN5)**Usual dose** : *P.O.* - 5-60 mg/day.**Pregnancy** : Category B.**Lactation** : Excreted in breast milk. (Usually compatible)**Triamcinolone Acetonide****Supply** : Triamcinolone® 安西諾隆 10mg/ml 10ml/Vial (ITRIA10)**Usual dose** : *Intra-articular* - 2.5-40mg. *IM* - 40-60mg.**Pregnancy** : Category C.**2. Antidiabetic agents and glucose elevating agents****(1) Insulins**

Insulin preparations	Onset	Duration
Rapid acting		
Aspart	5 – 15 min	3 – 5 hrs
Lispro	5 – 15 min	3 – 5 hrs
Short acting		
Regular	30 min	6 – 8 hrs
Intermediate acting		
Isophane insulin suspension (NPH)	1 – 4 hrs	14 - 24 hrs
Long acting		
Detemir	2 hrs	> 24 hrs

Indications : Diabetes mellitus, hyperkalemia**Usual dose** : *Children and adults* - 0.5-1 U/kg/day.**Side effects** : Hypoglycemia, allergy, lipodystrophy, erythema, swelling, pruritus at injection site.**Pregnancy** : Category B.**Lactation** : Not pass into breast milk.**Storage** : 2-8°C.**Humalog Mix25® KwikPen 優泌樂筆混合型25 (IHUMA25)****Supply** : 100 IU/ml 3ml/Pen

Insulin lispro-----25%

Insulin lispro protamine-----75%

Humulin 70/30® 優泌林混合型 (IHUMU05)**Supply** : 10 ml/Vial (100 U/ml)

Human insulin-----30%

Isophane insulin-----70%

Insulin Detemir

Supply : Levemir® FlexPen® 瑞和密爾諾易筆
100 IU/ml 3ml/Pen (ILEVEM)

Isophane Insulin Suspension (NPH)

Supply : Humulin N® 優泌林中效型 100 U/ml 10ML/Vial (IHUMU24)

NovoMix® 30 FlexPen® 諾和密斯30諾易筆 (INOVOF)

Supply : 100 IU/ml 3ml/Pen

Insulin aspart-----30%

Insulin aspart protamine-----70%

NovoMix® 30 Penfill® 諾和密斯30諾芯管 (IMIX30)

Supply : 100U/ml 3ml/Pen

Insulin aspart-----30%

Insulin aspart protamine-----70%

Regular Insulin

Supply : Humulin R® 優泌林常規型 100 U/ml 10ML/Vial (IHUMU33)

(2) Sulfonylureas

Warning : The hypoglycemic effects may be increased by Salicylates, Sulfonamides.

Side effects : Hypoglycemia, skin allergy, GI disturbances, SIADH.

Amaryl M® 美爾胰 (OAMAR01)

Supply : each Tab contains

Glimepiride-----2mg

Metformin-----500mg

Indications : For the treatment of NIDDM (type 2) patients who are having inadequate glycemic control with metformin or sulfonylurea monotherapy. (治療以 glimepiride 或 metformin 單一藥物療法仍無法達到適當的血糖控制之第二型糖尿病患者，作為飲食和運動之外的輔助。不適合作第一線治療。)

Usual dose : Once or twice per day before or with the meals.

Side effects : Glimepiride: Hypoglycemia, Nausea, Asthenia, Dizziness, Headache, Cutaneous hypersensitivity (< 1%), Lichenoid drug eruption. Metformin: Cobalamin deficiency (7%), Diarrhea, Flatulence, Indigestion, Nausea, Vomiting, Asthenia, Lactic acidosis (rare).

Glimepiride

Supply : Glimepine® 胰美平 2mg/Tab (OAMAR1)

Indications : Type 2 diabetes mellitus. (非胰島素依賴型(第2型)糖尿病。)

Usual dose : Initial 1-2 mg qd, take with breakfast or the first main meal
maintenance 1-4 mg qd. Max. 8 mg qd.

Pregnancy : Category C.

Glucomet® 克糖美 (OGLUC02)

Supply : each Tab contains

Glyburide-----5mg

Metformin-----500mg

Indications : Type 2 Diabetes. (第二型糖尿病。)

Usual dose : Initial: 2.5 mg/500 mg or 5 mg/500 mg twice daily, maximum
daily dose: 20 mg/2000 mg.

Side effects : Hypoglycemia, gastrointestinal reactions, lactic acidosis
(less than 3 cases in every 100,000 cases).

(3) Biguanids

Actosmet® 愛妥蜜 (OACTO03)

Supply : each Tab contains

Pioglitazone -----15mg

Metformin-----850mg

Indications : Adjunct to diet and exercise to improve glycemic control in
patients with type 2 diabetes who are already treated with a
combination of pioglitazone and metformin or whose diabetes is not
adequately controlled with metformin alone. (適用於配合飲食和運動，
以改善下列第二型糖尿病患者血糖控制：已在接受 Pioglitazone 和
Metformin 合併治療者，或僅使用 metformin 但控制不佳者。)

Usual dose : Orally, Usual dosage 1~3 table with QD or BID. Maximum
daily dose: pioglitazone 45mg/metformin 2550 mg.

Side effects : Diarrhea, combined edema/peripheral edema, headache,
myalgia, osteopenia, respiratory tract infection, and pharyngitis.

Amaryl M® see page 71

Galvus Met® 高糖優美 (OGALMET)

Supply : each Tab contains

Vildagliptin -----50mg

Metformin-----500mg

Indications : For the treatment of type 2 diabetes mellitus. (第二型糖尿病
之治療。)

Usual dose : Galvuse Met may be initiated at the 50 mg/850 mg twice
daily, one tablet in the morning and the other in the evening.

Side effects : Hypoglycemia, tremor, headache, dizziness, fatigue

Glucomet® see page 72

Janumet® 捷糖穩 (OJANU02)

Supply : each Tab contains

Sitagliptin -----50mg
Metformin-----500mg

Indications : As an adjunct to diet and exercise to improve glycemic control in patients with type 2 diabetes mellitus who are not adequately controlled on metformin or sitagliptin alone or in patient already being treated with the combination of sitagliptin and metformin. (適用於配合飲食和運動，以改善下列第二型糖尿病患者的血糖控制：已在接受 sitagliptin 和 metformin 合併治療者；或僅使用 sitagliptin 和 metformin 但控制不佳者；或已使用 metformin 與 sulfonylurea 合併治療，但控制不佳者；或已使用 metformin 與 PPAR 促進劑合併治療，但控制不佳者；或已使用 metformin 與胰島素合併治療，但控制不佳者。)

Usual dose : Generally be given twice daily with meals.

Side effects : Nasopharyngitis, diarrhea, nausea/vomiting, flatulence, abdominal discomfort, indigestion, asthenia, and headache.

Metformin HCl

Supply : Loditon® 伏糖 500 mg/Tab (OGLUCO5)

Indications : Type 2 diabetes mellitus. (糖尿病。)

Usual dose : Initial 500 mg bid given with meal, make dosage increments of 500 mg/week, up to 2500 mg/day.

Side effects : G-I disturbance, lactic acidosis, metallic taste, subnormal serum vit B₁₂ levels.

Pregnancy : Category B.

Trajenta DUO® 糖倍平 (OTRAJDU)

Supply : each Tab contains

Linagliptin -----2.5mg
Metformin-----850mg

Indications : Type 2 diabetes mellitus. (第 2 型糖尿病。)

Usual dose : Oral: Initial doses should be based on current dose of linagliptin and metformin.

Side effects : Diarrhea (6%), decreased appetite, nausea, vomiting, pancreatitis; nasopharyngitis, cough; back pain, headache, pruritus, and hypersensitivity. <1%, postmarketing, and/or case reports: Severe arthralgia.

(4) α Glucosidase Inhibitors

Acarbose

Supply : Acarose® 降糖佳 50 mg/Tab (OGLUCOB)

Indications : Type 2 diabetes mellitus. (非胰島素依賴型糖尿病之治療。)

Usual dose : 25-50 mg tid, maximum dose: ≤ 60 kg 50 mg tid; > 60 kg 100 mg tid, take with meal.

Side effect : Flatulence, diarrhea, abdominal pain, \uparrow liver transaminases.

Pregnancy : Category B.

(5) Meglitinides

Repaglinide

Supply : Relinide® 糖立定 1 mg/Tab (ONOVO01)

Indications : Type 2 diabetes mellitus. (第二型糖尿病 (NIDDM)無法經由飲食控制、減重及加強運動等方法，達成良好控制者。)

Usual dose : 0.5 - 4 mg bid - qid, Max.16 mg/day, take with meal.

Side effects : Hypoglycemia, headache, URI, nausea, vomiting, diarrhea

Pregnancy : Category C.

(6) Thiazolidinediones

Actosmet® see page 72

Pioglitazone

Supply : Glitis® 泌特穩 30mg/Tab (OGLIT03)

Indications : Type II diabetes mellitus alone or in combination with sulfonylureas, metformin, or insulin. (第二型糖尿病患者。)

Usual dose : Initial dosage 15-30 mg PO qd without regard to meals; the maximum recommended dosage is 45 mg PO qd.

Side effects : Edema, hypoglycemia, upper respiratory infection, headache, heart failure, sinusitis.

Pregnancy : Category C.

(7) Glucagon-like Peptide-1 Agonists

Dulaglutide

Supply : Trulicity® 易週糖 1.5mg/0.5ml/Pen (ITRULI)

Indications : Type 2 diabetes mellitus. (第 2 型糖尿病)

Usual dose : SC: 0.75 mg once weekly; may increase to 1.5 mg once weekly if inadequate glycemic response; maximum: 1.5 mg once weekly. Inject subcutaneously into the upper arm, thigh, or abdomen; when administering within the same body region, use a different injection site each week.

Side effects : Nausea (most common), diarrhea, vomiting, abdominal pain,

decreased appetite, dyspepsia, fatigue.

Pregnancy : Category C.

Note : 忘記給藥時，若距離下次給藥時間 3 天以上，應立即補注射；若離下次注射時間很近未滿 3 天，則不可補注射錯過的劑量，請按照原來的下一劑時間注射正常劑量。如有需要，可以更動每週注射的時間，但前後兩劑的間隔必須 3 天以上。

(8) Dipeptidyl Peptidase IV Inhibitors

Galvus Met® see page 72

Janumet® see page 73

Linagliptin

Supply : Trajenta® 糖漸平 5mg/Tab (OTRAJE)

Indicationa : Type 2 diabetes mellitus. (第 2 型糖尿病。)

Usual dose : PO 5 mg once daily.

Side effects : Hypoglycemia (combined with metformin and/or sulfonylurea [15% to 23%]; monotherapy [$<1\%$ to 7%]; metformin [$<1\%$], pioglitazone [$<1\%$]); Nasopharyngitis, arthralgia, back pain, headache, and hypersensitivity.

Pregnancy : Category C.

Trajenta DUO® see page 73

Vildagliptin

Supply : Galvus® 高糖優適 50mg/Tab (OGALV00)

Indicationa : Type 2 diabetes mellitus. (第 2 型糖尿病。)

Usual dose : The recommended dose of vildagliptin is 50mg twice daily when administered in combination with metformin or a thiazolidinedione, and 50mg once daily when administered in combination with a sulfonylurea.

Side effects : Headache, dizziness, nasopharyngitis, URI, hypoglycemia, peripheral edema.

Pregnancy : Should not be used during pregnancy.

(9) Selective Sodium-Glucose Transporter-2 Inhibitors

Dapagliflozin

Supply : Forxiga® 福適佳 10mg/Tab (OFORXI)

Indicationa : Type 2 diabetes mellitus. (第 2 型糖尿病。)

Usual dose : Oral: Initial: 5 mg qd; may increase to 10 mg once daily.

Side effects : Genital mycotic infections, nasopharyngitis, urinary tract infections, back pain, increased urination.

Pregnancy : Category C.

Empagliflozin

Supply : Jardiance® 恩排糖 25mg/Tab (OEMPA25)

Indications : Type 2 diabetes mellitus. (第 2 型糖尿病。)

Usual dose : Oral: Initial: 10 mg once daily in the morning; may increase to 25 mg.

Side effects : Hypoglycemia (combination therapy with insulin: 28%, severe hypoglycemia: ≤1%; combination therapy with metformin and a sulfonylurea: 12% to 16%; combination therapy with metformin: 1% to 2%); UTI (includes bacteriuria [asymptomatic], cystitis: 9%; females: 18%; males: 4%), increased urine output (includes polyuria, pollakiuria, nocturia: 3%). Increased LDL cholesterol (5% to 7%), dyslipidemia (4%), increased thirst (including polydipsia: 2%).

Pregnancy : Category C.

3. Agents Used to Treat Thyroid Diseases

(1) Thyroid Hormones

Levothyroxine Sodium

Supply : Eltroxin® 昂特欣錠 50 mcg/Tab (OELTRO)

Indications : Hypothyroidism, thyrotoxicosis. (甲狀腺機能減退症。)

Usual dose : Hypothyroidism - initial 50 mcg, with increments of 25 mcg every 2-3 weeks, Max. maintenance dose 200 mcg/day.

Thyroid suppression therapy - 2.6 mcg/kg/day for 7-10 days.

Side effects : Palpitations, angina pectoris, arrhythmia, diarrhea, flushing, tremor, sweating.

Pregnancy : Category A.

(2) Antithyroid Agents

Methimazole

Supply : Methimazole® 甲硫嗎唑錠 5 mg/Tab (OTAPA01)

Indications : Hyperthyroidism. (甲狀腺機能亢進症。)

Usual dose : Adults - Initial dose: Mild - 15 mg/day, moderately severe – 30-40 mg/day, severe- 60 mg/day. Maintenance: 5-15 mg/day.

Children – Initial: 0.4-0.7 mg/kg/day in 3 divided doses, maintenance: one-half the initial dose.

Side effects : Fever, leukopenia, dizziness, abdominal taste, nausea, stomach pain, vomiting, agranulocytosis.

Pregnancy : Category D.

Lactation : Excreted in breast milk. (Usually compatible)

4. Agents Affecting Calcium Regulating Hormones

Denosumab

Supply : Prolia® 保骼麗 60mg/ml/Syringe (IPROLI)

Indications : Treatment of postmenopausal women with osteoporosis at high risk for fracture. (治療有骨折高風險性之停經後婦女骨質疏鬆症。)

Usual dose : 60 mg administered as a single subcutaneous injection once every 6 months. Inject in the upper arm, upper thigh, or abdomen.

Side effects : Common: back pain, pain in extremity, musculoskeletal pain, Diarrhea, Nausea, Vomiting, Headache, URI, hypercholesterolemia, and cystitis. Serious: Hypocalcemia (1.7% to 18%), Hypophosphatemia, Infectious disease, Aseptic necrosis of bone of jaw, Cancer.

Pregnancy : Category X.

Note : Store Prolia in a refrigerator at 2°C to 8°C.

Fosamax Plus® 福善美保骨錠 (OFOSAD)

Supply : each Tab contains

Alendronate-----70mg

Vitamin D3-----5600IU

Indications : Osteoporosis in postmenopausal women. (停經後婦女骨質疏鬆症之治療。治療男性骨質疏鬆症，以增加骨密度。)

Usual dose : 1 Tab weekly.

Side effects : Flatulence, headache, musculoskeletal pain, esophageal ulcer, abdominal distention.

Pregnancy : Category C.

Note : Taken ≥ 30 mins before first food, do not lie down for at least 30 mins after taking alendronate.

Teriparatide

Supply : Forteo® 骨穩 750mcg/3ml/Syringe (IFORTE)

Indications : Postmenopausal osteoporosis, Primary or hypogonadal osteoporosis. (停經後婦女骨質疏鬆症具高度骨折風險者。男性原發性或次發於性腺功能低下症之骨質疏鬆且具高度骨折風險者。女性及男性因糖化皮質類固醇治療引起之骨質疏鬆症且具高度骨折風險者。)

Usual dose : 20 mcg once a day; should be administered as a subcutaneous injection into the thigh or abdominal wall.

Side effects : Hypotension, syncope, asthenia, nausea, dizziness, rhinitis, hyperuricemia, injection site reactions (bleeding, bruising, erythema, pain, pruritus, swelling).

Pregnancy : C; Teriparatide is not indicated for use in pregnant or

premenopausal women.

Note : Store at 2-8°C at all times. Each teriparatide pen can be used for up to 28 days after the first injection.

5. Sex Hormones

(1) Estrogens

Conjugated Estrogen

Supply : Estromon® 伊使蒙 0.625 mg/Tab (OPREM1)

Indications : Hypogonadism, vasomotor symptoms associated with menopause, vaginal atrophy, prevention of osteoporosis. (與停經有關血管性症狀、萎縮性陰道炎、骨質疏鬆症、女陰乾皺、女性生殖腺官能不足、原發性卵巢衰竭、荷爾蒙不平衡官能異常性子宮出血。)

Usual dose : PO - Moderate to severe vasomotor symptoms - 0.625 - 1.25 mg/day, begin on day 5 of menstrual cycle. Female hypogonadism - 0.3 - 0.625 mg daily for 3 weeks. Osteoporosis - 0.625 mg qd.

Side effects : Abnormal uterine bleeding, premenstrual-like syndrome.

Pregnancy : Category X.

Conjugated Estrogen Concentrate

Supply : Premarin® vag. cream 普力馬林陰道乳膏 0.625mg/g 14g/Tube (EPREMA)

Indications : Treatment of atrophic vaginitis and kraurosis vulvae. (萎縮性陰道炎及更年期性外陰萎縮症。)

Usual dose : Atrophic vulva - Atrophy of vagina: initial, 0.5 g intravaginally daily for 21 days, off for 7 days; may increase to 2 g based on clinical response.

Side effects : Common: edema, weight gain, vasodilatation, bloating symptom, nausea, abdominal pain, diarrhea, headache, asthenia, breast tenderness, vaginitis.

Pregnancy : Category X.

Covina 康樂娜 (OCOVINA)

Supply : Each Tab contains

Estradiol-----2mg

Norethindrone acetate-----1mg

Indications : Estrogen deficiency.

Usual dose : 1Tab qd.

Side effects : Abnormal uterine bleeding, nausea, headache, edema.

Diane 黛麗安 (ODIANE)**Supply** : 21 Tab/Box, each Tab contains

Ethinylloestradiol-----0.035mg

Cyproterone acetate -----2mg

Indications : 用於生育年齡婦女治療中度至重度且對雄性素敏感(不論有/無皮脂溢出)的痤瘡和/或多毛症, 或限於前述情形之避孕用。用於痤瘡的治療, 應於局部治療或全身抗生素治療失敗時才可使用。本品也是一種荷爾蒙避孕藥, 該品雖具避孕之作用, 但不可單獨用於避孕之目的, 亦不應與其他荷爾蒙避孕藥併用。**Usual dose** : 1 Tab qd.**Havina 伴樂娜 (OHAVINA)****Supply** : Each Tab contains

Estradiol-----1mg

Norethindrone acetate-----0.5mg

Indications : Estrogen deficiency. (停經超過一年以上婦女之雌激素缺乏引起的症狀。)**Usual dose** : 1Tab qd.**Side effects** : Uterine bleeding, nausea, headache, edema, rash, insomnia.**Progyuton 普吉樂通 (OPROGYL)****Supply** : Each Tab contains

Estradiol 17-valerinate-----2mg

Norgestrel-----0.5mg

Indications : 調節月經週期障礙、荷爾蒙缺乏所致之不孕症**Usual dose** : 1Tab qd.**(2) Selective Estrogen Receptor Modulator****Raloxifene HCL****Supply** : Evista® 鈣穩 60 mg/Tab (OEVISTA)**Indication** : prevention of osteoporosis in postmenopausal woman. (預防及治療停經後婦女骨質疏鬆症。)**Usual dose** : 60mg qd.**Side effects** : Hot flushes, flu syndrome, sinusitis, arthralgia, nausea, leg cramps.**Pregnancy** : Category X.**Note** : 不宜磨粉; 致畸胎可能(teratogenic potential), 避免皮膚直接接觸。

(3) Progestins

Levonorgestrel

Supply : MIRENA® 蜜蕊娜子宮內投藥系統 20UG/24H IUS (EMIRENA)

Indications : 避孕、月經經血過多、預防雌激素補充治療引起的子宮內膜增生。

Usual dose : 子宮內投藥系統。

Medroxyprogesterone Acetate

Supply : Provera® 普維拉 5 mg/Tab (OPROVE5)

Indications : Secondary amenorrhea, hormonal imbalance in the absence of organic pathology. (續發性停經以及因非器質性病變(例如纖維肌瘤或子宮癌)的荷爾蒙失調所造成子宮異常出血。)

Usual dose : Secondary amenorrhea, Hormonal imbalance in the absence of organic pathology - 5-10 mg daily for 5-10 days.

Side effects : GI disturbances, fluid retention, menstrual disorders, weight gain.

Pregnancy : Category X.

Lactation : Excreted in breast milk. (Usually compatible)

Norethisterone Acetate

Supply : Norina® 諾莉娜 5 mg/Tab (ONORINA)

Indications : Amenorrhea and dysfunctional uterine bleeding, endometriosis. (須黃體荷爾蒙治療之婦科疾患, 機能不全性子宮出血及其復發之預防。)

Usual dose : Amenorrhea and dysfunctional uterine bleeding - 2.5-10 mg daily. Endometriosis - 5-15 mg daily for 2 weeks.

Side effects : Breakthrough bleeding, changes in menstrual flow, amenorrhea.

(4) Androgens and Anabolic Steroids

Testosterone Enanthate

Supply : Androgel® 昂斯妥凝膠 50mg/pack (ETESTO)

Sustanon® 長力大雄 250 mg/mL/amp (ITESTO)

Nebido® 耐必多 1000mg/4mL (INEBIDO)

Indications : Replacement therapy for male conditions associated with a deficiency or absence of endogenous testosterone. (男性激素缺乏症)

Usual dose : Androgel®- initial, 5 g (delivering 50 mg) applied once daily (preferably in the morning) to clean, dry, intact skin of the shoulders and upper arms and/or abdomen; do NOT apply to genitals; may increase dose to 7.5-10 g. Sustanon®- one injection of 250 mg (1ml) per 3 weeks, administered by deep intramuscular injection.

Nebido®- I.M. only! Nebido (1 ampoule corresponding to 1000 mg testosterone undecanoate) is injected every 10 to 12 weeks. The

injections must be administered very slowly.

Side effects : Androgel®-Application site reaction (4%), breast pain (1-3%), prostate disorder (18.8%). Sustanon®- Large prostate, raised prostate specific antigen, acne, nasopharyngitis, nasal discharge, epistaxis, sense of smell altered, headache, scab of skin, upper respiratory infection, bronchitis, gynecomastia. Nebido®- Common: Acne, injection site reactions (pain, pruritus, erythema, haematoma, irritation), increased haematocrit, RBC count increased, weight increased, hot flush, PSA increased, abnormal BPH; Uncommon: impaired glucose tolerance; Hypercholesterolaemia, headache, depression, irritability, and LFT abnormal.

Pregnancy : Category X.

(5) Androgen Hormone Inhibitor

Finasteride

Supply : Proleak® 威福錠 5mg/Tab (OPROS2)

Indications : Benign prostatic hyperplasia. (良性前列腺增生。)

Usual dose : 5 mg qd.

Side effects : Impotence, decreased libido, decreased volume of ejaculate.

Pregnancy : Category X.

Note : Crushed or broken tablets should not be handled by a woman who is pregnant or who may become pregnant.

(6) Gonadotropins

Choriogonadotropin

Supply : Ovidrel® 克得諾 250mcg/Vial (IOVIDR)

Indications : For the induction of final follicular maturation and early luteinisation after stimulation of follicular growth , and for induction of ovulation and luteinisation in anovulatory or oligoovulatory patients after stimulation of follicular growth. (1.實施人工生殖協助技術(ART), 如體外授精(IVF)的超誘導排卵: 投與OVIDREL可引起最終濾泡成熟與經刺激成長的濾泡黃體化。2.無排卵或排卵過少婦女的誘導排卵: 投與OVIDREL可引起經刺激濾泡成長的無排卵或排卵過少婦女的排卵及黃體化。)

Usual dose : For subcutaneous use ONLY! One vial of Ovidrel (250 micrograms) is administered 24 to 48 hours after the last administration of an FSH- or hMG preparation or after optimal stimulation of follicular growth is achieved.

Side effects : Local reaction/pain at injection site, headache, tiredness, vomiting/nausea, abdominal pain, mild or moderate ovarian hyperstimulation syndrome.

Pregnancy : Category X.

Note : May be stored refrigerated or at room temperature 2-25°C. Protect from light.

(7) Ovulation Stimulants

Clomiphene Citrate

Supply : Clomid® 快樂妊 50 mg/Tab (OCLOMI2)

Indications : Treatment of ovulatory failure. (排卵障礙引起的不孕症之誘發排卵。)

Usual dose : First course is 50 mg/day for 5 days. Second course of therapy 100 mg/day for 5 days, start this course as early as 30 days after the previous one.

Side effects : Hot flushes, abdominal discomfort, ovarian enlargement, blurred vision.

Pregnancy : Category X.

6. Pituitary Hormones

Argipressin (Arginine vasopressin)

Supply : Pitressin® 必壓生 20IU/ml/Amp (IPITRES)

Indications : Prophylaxis of postoperative abdominal distension; diabetes insipidus; variceal hemorrhage (unlabeled use). (食道靜脈曲張出血，尿崩症，手術後腹部膨脹，排除腹部氣影。)

Usual dose : 10 units (0.5ml) will usually elicit full physiologic response. In adult, pitressin should be given IM at 3 or 4 hours intervals as needed. Variceal hemorrhage (unlabeled use): Continuous I.V. infusion: Dilute in NS or D5W to 0.1-1 unit/mL.

Side effects : Tremor, sweating, vertigo, water intoxication, hyponatremia, metabolic acidosis, abdominal cramps, nausea, vomiting, urticaria, and anaphylaxis.

Pregnancy : Category C.

Desmopressin

Supply : Minirin® 迷你寧 0.1mg/Tab (OMINIRI)

Indications : Treatment of central (neurogenic) diabetes insipidus, temporary polyuria and polydipsia following pituitary surgery or head injury; Primary nocturnal enuresis; Maintenance of hemostasis and control of bleeding in hemophilia A or von Willebrand's disease Type I with factor VIII coagulant activity levels >5 %. (中樞尿崩症，原發性夜尿症 (限用於7歲以上病患)，成人因夜間多尿所導致之夜尿症。)

Usual dose : For diabetes insipidus: Orally, initial oral dose is 0.05 mg twice daily titrated to clinical response; the usual range is 0.1 to 0.8 mg daily. For Primary nocturnal enuresis: Adults and children (≥ 6

yr): initial, 0.2 mg orally at bedtime; dose may be titrated up to 0.6 mg if necessary.

Side effects : headache, water retention and hyponatremia, abdominal cramps, nasal congestion, rhinitis, local dermatologic effects following injection, and rash.

Pregnancy : Category B.

7. Oxytocin

Ergonovine (Ergometrine) Maleate

Supply : 縮水蘋果酸麥角新鹼 0.2 mg/Tab (OERGOME)

Indications : To minimize late postpartum hemorrhage. (促進分娩後子宮之復元、分娩時子宮弛緩性出血、流產、妊娠中絕等子宮出血之預防及治療。)

Usual dose : To minimize late postpartum hemorrhage- PO 0.2-0.4 mg q6-12hrs until the danger of uterine atony has passed.

Side effects : Blood pressure elevation, headache, ergotism, nausea, vomiting.

Pregnancy : Not recommended for routine use prior to the delivery of the placenta.

Lactation : Excreted in breast milk.

Methylergonovine Maleate

Supply : Methergin® 美脫琴 0.2 mg/ml/Amp (IMETHER)

Indications : Postpartum atony and hemorrhage, subinvolution. (促進子宮收縮及下列諸症狀之子宮出血預防及治療 (胎盤娩出後子宮恢復不全、流產。))

Usual dose : IM or IV. 0.1-0.2 mg, repeat as required at 2-4 hrs interval.

Side effects : Hypertension, seizure, headache, hypotension.

Pregnancy : Category C.

VII. Antihistamine Drugs

Side effects : Drowsiness, sedation, disturbed coordination, postural hypotension, dry mouth, peripheral and laryngeal edema, epigastric distress, thickening of bronchial secretions.

Cetirizine

Supply : Alltec® 永康敏 10mg/Tab (OALLTEC)

Cetirizine® 勝克敏 1mg/ml 30 ml/Bot (OCETIL)

Indications : Allergic rhinitis/urticaria. (季節性鼻炎、結膜炎、過敏性鼻炎、蕁麻疹、過敏性搔癢等過敏現象。)

Usual dose : Adults and children ≥6 years: 5-10 mg qd. Infants 6 to <12 months: 2.5 mg once daily. Children 12 months to <2 years: 2.5 mg once daily; a maximum dose of 2.5 mg every 12 hours if needed.

Children 2 to 5 years: Initial: 2.5 mg once daily; a maximum dose of 2.5 mg every 12 hours or 5 mg once daily.

Pregnancy : Category B.

Chlorpheniramine

Supply : Chlorpheniramine® 氣菲安明 5mg/ml/Amp (ICHLOPH)

Indications : Rhinitis, pruritus and urticaria, hay fever, contact dermatitis, drug sensitization. (蕁麻疹、皮膚搔癢症、過敏性氣喘、枯草熱、藥物過敏。)

Usual dose : Adults: Allergic reactions: IM, IV, SC: 10-20 mg as a single dose; Max. 40mg/24 hrs.

Pregnancy : Category B.

Cyproheptadine

Supply : Cytadine® Syrup 即舒敏 0.4mg/ml 60ml/Bot (OCYPRL)

Indications : Pruritus, eczema, urticaria, appetite stimulant, migraine headache. (皮膚疾患引起之搔癢(濕疹、皮膚炎、皮膚搔癢症、藥物過敏反應) 枯草熱、蕁麻疹、過敏性鼻炎、血管運動性鼻炎、感冒上氣管炎引起之咳嗽、鼻涕。)

Usual dose : Allergy: Adults: 4 mg TID (Max 0.5 mg/kg/day); Children: 2-6 yrs: 2 mg BID or TID (Max 12mg/day); 7-14 yrs: 4 mg BID or TID (Max. 16 mg/day)

Stimulation of appetite: Adults: 2-4 mg TID or QID, Children: 2-6 yrs: 2 mg BID or TID (Max. 8 mg/day)

Pregnancy : Category B.

Dimenhydrinate

Supply : Dimenhydrinate® 達姆明 50mg/Tab (ODIMEN)

Indications : Prevention of motion sickness. (預防或緩解動暈症 (暈車、暈船、暈機) 引起之頭暈、噁心、嘔吐、頭痛等症狀。)

Usual dose : **IV: 50 mg in 10 mL NS over 2 minutes.**

Pregnancy : Category B.

Fexofenadine

Supply : Fexodine® 樂抗敏 60mg/Tab (OFEXODI)

Indications : For management of Seasonal allergic rhinitis. (緩解成人及六歲以上兒童的季節性過敏性鼻炎及慢性自發性蕁麻疹相關症狀。)

Usual dose : Adults and children(>12 years) with normal function: 60 mg orally twice daily or 180 mg once daily with water. Children 2-11 years: 30 mg twice daily.

Pregnancy : Category C.

Note : Do not take concurrently or closely in time with aluminum and magnesium containing antacids.

LoraPseudo® 莫鼻卡 (OFINS02)

Supply : each Tab contains

Loratadine-----5 mg

Pseudoephedrine-----120 mg

Indications : Allergic rhinitis/urticaria. (緩解過敏性鼻炎及感冒的相關症狀，如鼻塞、打噴嚏、流鼻水、搔癢及流眼淚。)

Usual dose : Adults and children \geq 12 years: 1 Tab bid.

Side effects : Insomnia, dry mouth, headache, somnolence.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Usually compatible)

Cyproheptadine HCl

Supply : Cytadine® 喜達鎮 4 mg/Tab (OPERIA)

Indications : Hypersensitivity reactions: rhinitis/dermatitis, urticaria. (過敏症、搔癢症、氣喘症、組織胺性頭痛。)

Usual dose : Adults: Initial 4 mg tid, Max. 32 mg/day;

Children (7-14 years): 4 mg bid-tid, Max.16 mg/day;

Children (2-7 years): 2 mg bid-tid, Max.12 mg/day.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Contraindicated)

Meclizine HCl

Supply : Meclizine® 美克利靜 25 mg/Tab (OBONAM)

Indications : Motion sickness, vestibular system disease. (預防或緩解動暈症(暈車、暈船、暈機)引起之頭暈、噁心、嘔吐、頭痛等症狀。)

Usual dose : Antiemetic (for motion sickness) - 25-50 mg 1 hour before travel, repeated q24h as needed.

Antivertigo - 25-100 mg daily in divided doses.

Pregnancy : Category B.

Peace® 鼻福錠 (OPEACE)

Supply : each Tab contains

Triprolidine-----2.5 mg

Pseudoephedrine-----60 mg

Indications : Upper respiratory tract congestion. (緩解過敏性鼻炎、枯草熱所引起之相關症狀(鼻塞、流鼻水、打噴嚏、眼睛及喉部搔癢)。

Usual dose : PO 1Tab tid-qid.

Side effects : Drowsiness, CNS stimulation, tachycardia, rash, dry mouth.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Spiz® Syrup 舒鼻適 (OACT11)

Supply : 60ml/Bot, each ml contains

Triprolidine-----0.25 mg

Pseudoephedrine-----6 mg

Indications : 緩解過敏性鼻炎、枯草熱所引起之相關症狀(鼻塞、流鼻水、打噴嚏、眼睛及喉部搔癢)。

Usual dose: Adult and children > 12 yr: 10ml tid-qid; children 6-12 yr: 5ml tid-qid.

Side effects : Drowsiness, CNS stimulation, dry mouth.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

VIII. Respiratory Drugs

1. Bronchodilators

(1) Sympathomimetics

Anoro Ellipta® 安肺樂易利達 (EANORO)

Supply : 30doses/Bot, each dose contains

Vilanterol trifenate -----22mcg

Umeclidinium ----- 55mcg

Indications : Maintenance treatment of airflow obstruction in patients with COPD. (慢性阻塞性肺病(COPD)患者之氣道阻塞症狀的維持治療。)

Usual dose : 1 inhalation once daily by the orally inhaled route only.

Side effects : Pharyngitis, sinusitis, lower respiratory tract infection, constipation, diarrhea, pain in extremity, muscle spasms, neck pain, chest pain.

Pregnancy : Category C.

Bambuterol

Supply : Lungtec® 肺喘克 10 mg/Tab (OBAMBE)

Indications : Asthma, bronchospasm, chronic bronchitis and emphysema. (支氣管氣喘。)

Usual dose : 10 mg at bedtime, may increase to 20 mg daily.

Side effects : Tremor, palpitation, headache, uneasiness.

Berodual N® 備喘全定量噴霧 (ECOMBIV)

Supply : 200doses/Bot, each dose contains

Ipratropium-----20mcg

Formoterol----- 50mcg

Indications : 下列支氣管痙攣疾患之預防和治療:支氣管氣喘、阻塞性支氣管炎、慢性支氣管炎、氣腫和伴支氣管痙攣之肺支氣管障害。

Usual dose : 1-2 doses 3 times daily, Max. 8 doses/day.

Side effects : Same as ipratropium and formoterol.

Combivent® 冠喘衛 (ECOMBI)

Supply : UDV 2.5ml/Amp, each Amp contains

Ipratropium----- 0.5mg

Salbutamol -----2.5mg

Indications : Chronic obstructive pulmonary disease. (用於治療阻塞性呼吸道疾病併發的可逆性支氣管痙攣，需要一種以上支氣管擴張劑治療者。)

Usual dose : Adults: 1 unit-dose vial nebulization 4 times daily, MAX 6 doses/day.

Side effects : Headache, dizziness, nervousness, tachycardia, fine tremor

of skeletal muscles and palpitations, dryness of the mouth and dysphonia.

Pregnancy : Category C.

Ephedrine HCl see page 50

Epinephrine HCl see page 51

Fenoterol HCl

Supply : Fenoterol® 菲諾特洛 2.5 mg/Tab (OBERO)

Berotec® 備勞喘 100mcg/dose 10ml/200doses/BT (EBEROT)

Indications: Asthma, bronchospasm, chronic bronchitis and emphysema.

(下列支氣管痙攣疾患之治療與預防：支氣管氣喘、阻塞性支氣管炎、肺氣腫和伴有支氣管痙攣之肺支氣管障害。)

Usual dose : PO - Adults:1-2 Tab tid; Children(1-6 years): 0.5-1 Tab tid.

Inhalation - 1-2 doses 2-4 times daily, Max. 8 doses/day.

Side effects : Nervousness, palpitation, tachycardia, skeletal muscle tremor.

Pregnancy : Category B.

Foster® 肺舒坦 (EBECFO)

Supply : 120doses/Bot, each dose contains

Beclomethasone -----100mcg

Formoterol----- 6mcg

Indications : Asthma, COPD. (氣喘: Foster 適用於需規律使用吸入型皮質

類固醇與長效 beta 2 致效劑合併治療的氣喘病患。慢性阻塞性肺病

(COPD): 患有較嚴重之慢性阻塞性肺病(FEV1 少於預測值之 50%)及有反覆惡化病史, 已定期使用長效型支氣管擴張劑, 而仍有明顯症狀病患之治療。)

Usual dose : 1-2 dose twice daily.

Side effects : Headache, tremor, local candidiasis(oropharyngeal), hoarseness and throatirritation.

Methylephedrine HCl

Supply : 消旋鹽酸甲基麻黃鹼 30 mg/Tab (OMEPEH)

Indications : Cough. (咳嗽、氣喘。)

Usual dose : 1 Tab tid.

Side effects : Nervousness, headache, palpitation, nausea, anorexia, rash.

Procaterol HCl

Supply : Pocathma® 氣樂順 25 mcg/Tab (OPROCA)

Pocathma® 氣樂順液劑 5 mcg/ml 30ml/Bot (OPOCAL)

Indications: Asthma, bronchospasm, chronic bronchitis and emphysema.

(支氣管氣喘、慢性支氣管炎、肺氣腫諸疾患之氣道閉塞性障礙。)

Usual dose: Adult: 50-100ug PO BID. Children: >6 years old, 25ug PO QN or BID; <6 years old, 10-15ug PO QD.

Side effects : Nervousness, tremor, headache, palpitation, nausea, rash.

Salbutamol (Albuterol)

Supply : Ventolin Nebules® 泛得林 5 mg/2.5ml/Amp (IVENTOL)

Indications: Asthma, bronchospasm, chronic bronchitis and emphysema. (支氣管痙攣、急性嚴重性氣喘。)

Usual dose : Inhalation solution - Adults and children >12 years: 2.5 ml 3-4 times daily nebulization.

Side effects : Tachycardia, palpitation, tremor, nervousness, headache.

Pregnancy : Category C.

Seretide®

Supply : Inhalation powder

Each dose contains	Evohaler 125 使肺泰優氟吸入劑 (ESER25)	Accuhaler 250 使肺泰準納乾粉吸入劑 (ESERETI)
	120doses/Bot	60doses/Bot
Salmeterol xinafoate	25 mcg	50 mcg
Fluticasone propionate	125 mcg	250 mcg

Indications : Reversible obstructive airways disease, including asthma in children and adults, where use of a combination is appropriate. (適用於可逆性呼吸道阻塞疾病(ROAD)之常規治療,包括適合使用支氣管擴張劑及皮質類固醇組合療法之患有氣喘的兒童與成人。這可能包括:正在使用長效乙型作用劑(β -AGONIST)及吸入型皮質類固醇之有效維持劑量的患者。正在接受吸入型皮質類固醇療法,而仍有症狀之患者。接受支氣管擴張劑之常規治療,而需要吸入型皮質類固醇之患者。SERETIDE適用於嚴重慢性阻塞性肺部疾病($FEV_1 < 50\%$ 預期值, $FEV_1/FVC < 70\%$)之維持治療,包括慢性支氣管炎和肺氣腫。

Usual dose : 1-2 dose twice daily.

Side effects : Tachycardia, headache, tremor, local candidiasis(oropharyngeal), hoarseness and throatirritation,

Pregnancy : Category C.

Symbicort® Turbuhaler 吸必擴都保定量粉狀吸入劑 (ESYMBIC)

Supply : 120 doses/Bot, each dose contains

Budesonide -----160 mcg

Formoterol -----4.5 mcg

Indications : Bronchial asthma. (氣喘。適合使用類固醇及長效 BETA2 作用劑(BETA2-AGONIST)合併治療的支氣管氣喘(BRONCHIAL ASTHMA)。慢性阻塞性肺部疾病(COPD):患有較嚴重之慢性阻塞肺疾(FEV_1 少於預測值之 50%)及有反覆惡化病史,已定期使用長效型支氣

管擴張劑，而仍有嚴重症狀病患之治療。)

Usual dose : Adults and adolescents ≥ 12 y/o – 1-2 dose twice daily.

Side effects : Tachycardia, headache, tremor, local candidiasis(oropharyngeal), hoarseness and throatirritation.

Terbutaline Sulfate 撲咳喘

Supply : Bricanyl Turbuhaler® 0.5 mg/dose 200doses/BT (EBRICA1)
Bricanyl Nebulizing® 2.5 mg/ml 2ml/Amp (IBRICAN)

Indications : Asthma, bronchospasm, chronic bronchitis and emphysema.
(支氣管氣喘、支氣管炎及肺氣腫所伴隨之支氣管痙攣之緩解。)

Usual dose : Turbuhaler: Adults/ Children >12 years: 0.5mg prn,
Max.6mg/day; Children(3-12years): Max. 4mg/day. Nebulizing:
1Amp qid.

Side effects : Palpitation, tremor, nervousness, drowsiness, headache.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Usually compatible)

Ultibro® 昂帝博吸入膠囊 (EULTI00)

Supply : Each Cap contains

Glycopyrronium-----50 mcg

Indacaterol -----110 mcg

Indications : Maintenance treatment in patients with chronic obstructive pulmonary disease (COPD). (慢性阻塞性肺疾之維持治療。)

Usual dose : Oral inhalation: 1 capsule inhaled once daily.

Side effects : Nasopharyngitis (9% to $>10\%$), upper respiratory tract infection, dry mouth (2.4%).

Pregnancy : Category C.

Note: Using the Ultibro Breezhaler® inhaler device.

(2) Anticholinergics

Anoro Ellipta® see page 87

Berodual N® see page 87

Combivent® see page 87

Ipratropium Bromide

Supply : Ipratran® UDV 益撲喘 5mg/2ml/amp (EATROV1)

Indications : Bronchospasm. (慢性阻塞性支氣管炎、支氣管氣喘。)

Usual dose : 1 Amp 3-4 times daily.

Side effects : Dry mouth, throat irritation, allergic reaction.

Pregnancy : Category B.

Lactation : Excreted in breast milk.

Tiotropium

Supply : Spiriva® Respimat® 適喘樂舒沛噴 2.5mcg/puff 60puff/Bot (ESPIRI)

Indications : Maintenance treatment of bronchospasm associated with COPD (bronchitis and emphysema), reduction of COPD exacerbations. (慢性阻塞性肺疾(包括慢性支氣管炎及肺氣腫)之維持治療。)

Usual dose : The delivered dose is 2.5 mcg tiotropium per puff (2 puffs per dose). Administer once daily at the same time each day.

Side effects : Dry mouth (most common), upper respiratory tract infection, sinusitis; pharyngeal irritation, headache, insomnia, constipation, palpitations, rash, dysuria and urinary retention.

Pregnancy : Category C.

Note : 每噴一次(puff)含 tiotropium 2.5 mcg，噴二次為一個劑量。

Ultibro® see page 90

(3) Xanthine Derivatives

Warning : Drug effects may be increased by Erythromycin, Quinolones.

Side effects : Levels >20 mcg/ml - Nausea, vomiting, diarrhea, irritability
Levels >35mcg/ml - hyperglycemia, hypotension, cardiac arrhythmias, seizure, death.

Pregnancy : Category C.

Lactation : Avoided.

Aminophylline

(Theophylline Ethylenediamine, 80% Theophylline)

Supply : Phyllocontin® 菲康汀 225mg/Tab (OPHYLLO)

阿米諾惠寧 250 mg/10ml/Amp (IAMINOA)

Indications : Asthma, bronchospasm. (氣喘及支氣管痙攣。)

Usual dose : Oral sustained-release: Adults: 225 to 450 mg twice daily.
Children>40 kg : Initial: 225 mg twice daily.

IV infusion: Loading dose:6 mg/kg; maintenance: healthy non-smoking adults : 0.5-0.7 mg/kg/hr; Children 9-16 years and young adult smokers : 0.8-1 mg/kg/hr; Children 6 month-9 years :1-1.2 mg/kg/hr. Max. infusion rate 25 mg/min.

Theophylline

Supply : Telin® 鐵寧喘 200mg/Tab (OXANT01)

Usual dose : See above, dosing interval 12-24h.

Indications : Asthma, bronchospasm. (氣喘及支氣管痙攣。)

Usual dose : Adults: initial 400mg QD, maintenance: 400-600mg QD;
children: 200-400mg QD.

2. Asthma Prophylactic Drugs

Montelukast Sodium

Supply : Anxokast® 敏喘克 10mg/Tab (OANXOKA)

Indications : Prophylaxis and chronic treatment of asthma. (適用於預防與長期治療成人及小兒的氣喘，包含預防日間及夜間氣喘症狀及防止運動引起的支氣管收縮、緩解成人及小兒的日間及夜間過敏性鼻炎症狀。)

Usual dose : Adults and adolescents ≥ 15 y/o - 10 mg daily. Children 6-14 y/o - 5 mg daily, Children 2-5 y/o - 4 mg daily. Taken at bedtime.

Side effects : Headache, dyspepsia, abdominal pain

Pregnancy : Category B.

3. Corticosteroids Inhalant

Side effects : Throat irritation, dysphonia, cough, dry mouth, wheezing, rash.

Pregnancy : Category C. Use only if the benefit/potential risk to the fetus.

Note : Rinse the mouth with water or mouthwash after each use.

Foster® see page 88

Seretide® see page 89

Symbicort® see page 89

4. Cough Suppressants 、Expectorants and Mucolytics

Acetylcysteine see page 1

Ambroxol HCl

Supply : Ambroxol® 安嗽錠 30 mg/Tab (OAMBRO2)

Indications : Expectorants. (祛痰。)

Usual dose : Adults: 1 Tab tid; Children (5-10years): 1/2 Tab tid.

Side effects : Fatigue, dry mouth, rhinorrhea, constipation, dysuria.

Brown Mixture® 甘草止咳水 (OBM)

Supply : 120 ml/BT, each ml contains

Glycyrrhiza fluid extract-----0.12ml

Opium tincture-----0.012ml

Antimony potassium tartrate----- 0.24mg

Indications : Cough, antitussive

Usual dose : Adults - 5 ml tid-qid.

Side effects : Nausea, vomiting, sedation, dizziness, palpitation.

Codicon-U® 咳定康優 (OMEDI)

Supply : each Cap contains

Dextromethorphan-----	20mg
Lysozyme chloride-----	20mg
Potassium cresolsulfonate -----	90mg

Indications : Cough, antitussive. (鎮咳、祛痰。)

Usual dose : Adults – 1 Tab tid.

Side effects : Nausea, vomiting, dizziness

Eprazinone

Supply : Bisplen® 祛咳痰 20mg/Tab (OBISPLE)

Indications : 支氣管擴張症、支氣管性氣喘、急慢性支氣管炎、上呼吸道
炎、感冒等引起之鎮咳及祛痰。

Usual dose : Adults:1-1.5 Tab tid; Children (6-10yr):1.5-2.5 Tab daily in 3
times; Children (3-6yr):1-1.5 Tab daily in 3 times; Children
(1-3yr):0.5-1 Tab daily in 3 times.

Side effects : Nausea, vomiting, loss of appetite.

Dextromethorphan

Supply : Regrow® S.R. 愛舒可羅 60 mg/Tab (OREGROW)

Indications : Cough suppressants. (鎮咳。)

Usual dose : 60 mg q12h.

Side effects : Dizziness, GI disturbances, excitation, confusion.

Pregnancy : Category C.

5. Preparations for Common Cold

C.A.P.® 感冒寧 (OCOLD01)

Supply : each Cap contains

Acetaminophen-----	150mg
Chlorpheniramine Maleate-----	4mg
Methylephedrine-----	15mg
Ethenzamide (=ethoxybenzamide)-----	150mg
Caffeine anhydrous-----	30mg

Indications : Antitussive, decongestant, rhinorrhea. (緩解感冒之各種症狀
(鼻塞、打噴嚏、咽喉痛、發燒，頭痛，關節痛，肌肉痛，流鼻水。))

Usual dose : Adults or children >12yr : 1Tab tid; Children 9-12 yr: 0.5 Tab
tid; 6-9 yr: 0.25 Tab tid.

Side effects : Dizziness, nausea, vomiting, rash, palpitation.

Secorine® 息咳寧 (OSECOR)

Supply : 120 ml/BT, each ml syrup contains

dl-Methylephedrine HCL-----	1.0 mg
Chlorpheniramine Maleate-----	0.1 mg
Guaifenesin-----	5.0 mg

Indications : Antitussive, decongestant, rhinorrhea. (緩解感冒之各種症狀
(流鼻水、鼻塞、打噴嚏、咳嗽、喀痰)。)

Usual dose : Adults: 10 ml tid-qid

Children 6-14 years: 5 ml tid-qid; 1-6 years: 5 ml bid-tid.

Side effects : Dizziness, GI disturbance, headache, palpitation, dry mouth.

IX. Gastrointestinal Agents

1. Antacids

Algitab® 艾胃逆服 (OTOPAAL)

Supply : Each Chew Tab contains

Alginic Acid-----0.200 g

Magnesium Carbonate (light)-----0.040 g

Dried Aluminum hydroxide gel -----0.030 g

Indications : Hyperacidity, peptic ulcer, gastro-oesophageal reflux, hiatal hernia, pyrosis.

Usual dose : 2 Tab tid after meal or bedtime.

Side effects : Abdominal distension, diarrhea, constipation, nausea, hiccup.

Magnesium Oxide

Supply : 氧化鎂 250 mg/Tab (OMGO)

Indications : Hyperacidity, short-term treatment of constipation. (軟便。)

Usual dose : Antacids - 1-2 tab tid; laxative - 2-4 tab get bedtime with full glass water.

Side effects : Diarrhea.

Pregnancy : Category B.

Strocain® 息痛佳音 (OSTRO1)

Supply : Each Tab contains

Oxethazaine-----5 mg

Polymigel-----244 mg

Indications : Hyperacidity. (急性、慢性胃炎、所引起的胃痛、噁心、胃灼熱、以及胃部不快感。)

Usual dose : 1-2 Tab tid-qid.

Side effects : Skin rash, diarrhea, constipation, nausea, dizziness.

Ulstal® 胃立舒泰 (OULSTAL)

Supply : 10 ml/Pack, each ml contains

Oxethazaine-----2 mg

Magnesium Hydroxide-----20 mg

Aluminium Hydroxide Gel-----0.95 ml

Indications : Hyperacidity, peptic ulcer, esophagitis. (胃炎、腸炎、食道炎所伴隨之胃痛、胃酸過多、胃部不適或灼熱感。)

Usual dose : 10 ml tid.

Side effects : Nausea, thirst, diarrhea, constipation.

2. Antispasmodics

Dicyclomine HCl

Supply : Benty® 便治爾 10 mg/Tab (OBENTYL)

Indications : Functional bowel/irritable bowel syndrome. (伴有平滑肌痙攣之諸疾患 (胃腸管痙攣、膽囊、膽管痙攣及輸尿管痙攣之疾患)。)

Usual dose : 1-2 Tab tid-qid.

Side effects : Nausea, vomiting, constipation, blurred vision.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Not recommended)

Note : Contraindicated in infants < 6 months old.

Hyoscine butylbromide

Supply : Escopan® 胃使可胖 20mg/ml/Amp (IBUSC2)

Indications : Gastric and duodenal ulcer, intestinal colic, cholelithcolic, claming delirium. (胃腸痙攣及運動亢進、膽管痙攣及其運動障礙、尿路痙攣、女性生殖器等之痙攣症狀。)

Usual dose : IM, SC or IV 10-20mg QD.

Side effects : Dry mouth, urinary hesitancy, blurred vision, constipation, tachycardia, drowsiness, dizziness, nausea, vomiting, headache.

Pregnancy : Butylscopolamine should only be used during pregnancy if the potential risks to the fetus justify the benefits to the patient.

Hyoscyamine

Supply : Nuspas® 痙得寧 0.125mg/Tab (OBUWE)

Indications : Adjunctive therapy for peptic ulcers, irritable bowel, neurogenic bladder/bowel; treatment of infant colic, GI tract disorders caused by spasm; to reduce rigidity, tremors, sialorrhea, and hyperhidrosis, associated with parkinsonism. (下列疾患之痙攣及運動機能亢進、胃潰瘍、胃酸分泌過多、內臟痙攣、痙攣性結腸炎、膀胱炎、幽門痙攣、妊娠嘔吐、腎痙痛、膽痙痛、痛經。)

Usual dose : Children >12 years and Adults: 0.125-0.25 mg PO q4hs or as needed (before meals or food); MAX: 1.5 mg/24 hrs.

Children 2~12 years: repeat dose q4 hs as needed:

10 kg: 0.031-0.033 mg; MAX: 0.75 mg/24 hours

20 kg: 0.0625 mg; MAX: 0.75 mg/24 hours

40 kg: 0.0938 mg; MAX: 0.75 mg/24 hours

50 kg: 0.125 mg; MAX: 0.75 mg/24 hours

Side effects : Palpitations, tachycardia; decreased sweating; dry mouth, bloating, constipation; ataxia, dizziness; blurred vision, mydriasis, cycloplegia, increased ocular tension; lactation suppression; impotence, urinary hesitancy, urinary retention; allergic reactions, urticaria.

Pregnancy : Category C.

Otilonium

Supply : Cation® 腸必寧 40mg/Tab (OCATIL)

Indications : Relief of pain induced by irritable bowel syndrome. (腸躁症腹痛症狀之緩解。)

Usual dose : PO 40 mg bid-tid.

Side effects : Nausea, vomiting, epigastric pain, abdominal discomfort, vertigo, headache.

3. Histamine H₂ Antagonists

Cimetidine

Supply : Tamedin® 達胃新 200mg/Tab (OTAGA2)

Cimetidine® 治潰平 200mg/2ml/Amp (ITAGAME)

Indications : Gastric and duodenal ulcer, gastroesophageal reflux, pathological hypersecretory conditions (eg. Zollinger-Ellison syndrome), stress related mucosal damage. (胃、十二指腸潰瘍、住院病人伴隨有病理性胃酸分泌過高之症狀、頑固性(難治的)十二指腸潰瘍, 或不能口服之病人消化性潰瘍之短期替代療法。)

Usual dose : Adults: 300 mg IV/ IM Q6-8H; 300 mg PO QID, 400 mg BID, or 800 mg at bedtime and treated continuously for 4-6 weeks. In hyper-secretory condition, 300 mg QID with meals and at bedtime, MAX doses: 2.4 gm/day, 12 gm/day. For prophylaxis of recurrent ulcer: 400 mg PO HS. Children: 20-40 mg/kg/day (Tab, Inj) in divided doses, four times a day.

Side effects : Dizziness, headache, confusional states, diarrhea, rash, gynecomastia, impotence, thrombocytopenia, muscular pain, cardiac arrhythmia.

Pregnancy : Category B.

Ranitidine

Supply : Ranitidine® 悅擬停 150 mg/Tab (ORANITI)

Rnd Lyo® 胃恩利 50 mg/2ml/Vial (IZANTA1)

Indications : Duodenal, gastric ulcer, gastroesophageal reflex disease. (適用於十二指腸潰瘍、良性胃潰瘍、邊緣性之消化性潰瘍、回流食道炎及高濃度胃酸分泌症候群。)

Usual dose : Duodenal ulcer – Adults: acute therapy PO 150 mg bid or 300 mg hs, maintenance 150 mg hs. IM, IV or IV infusion: 50mg q6-8h, Max. 400 mg/day. Children: acute therapy PO 2-4 mg/kg qd, max. 300 mg/day. Maintenance 2-4 mg/kg qd, max. 150 mg/day. IV: 2-4 mg/kg q6-8h. GERD – Adults: 150 mg bid. Children: 5-10 mg/kg/day bid.

Side effects : Headache, rash, abdominal discomfort, nausea, vomiting.

Pregnancy : Category B.

4. Agents to Hasten The Healing of Ulcer

Sulpiride see page 15

5. Proton Pump Inhibitors

Esomeprazole

Supply : Nexium® 耐適恩 40 mg/Tab (ONEXI01)

Indications : Peptic ulcer, gastro-esophageal reflux disease, H. pylori eradication. (胃食道逆流性疾-糜爛性逆流性食道炎之治療。-胃食道逆流性疾之症狀治療。與適當之抗菌劑療法併用，以根除幽門螺旋桿菌，及治療-由幽門螺旋桿菌引發之十二指腸潰瘍。需要持續使用非類固醇抗發炎藥(NSAID)之病患。-NSAID 治療相關之胃潰瘍的治療。-Zollinger-Ellison Syndrome(ZES)之治療。預防消化性潰瘍再出血之治療。)

Usual dose : 40 mg daily.

Side effects : Headache, abdominal pain, diarrhea, nausea

Pregnancy : Category B.

Note : 必需整顆吞服，不要咀嚼、或壓碎藥錠。由 N-G 給藥時，可將藥錠放入 50 ml 水中，不可使用其他液體，以免腸衣膜被破壞；待藥錠溶解後，立即或於 30 分鐘內由 N-G 給藥，再以至少 30 ml 的水沖 N-G 管子使藥物完全進入胃內。

Lansoprazole

Supply : Takepron® OD 泰克胃通口溶錠 30 mg/Tab (OTAKE)

Indications : Duodenal ulcer, Gastric ulcer, erosive esophagitis, GERD, Hypersecretory conditions. (胃潰瘍、十二指腸潰瘍、胃食道逆流性疾-糜爛性逆流性食道炎之治療，胃食道逆流性疾之症狀治療。Zollomger-Ellison 症候群、合併抗生素治療與幽門螺旋桿菌(Helicobacter pylori)相關的消化性潰瘍、治療因 NSAID 類藥物引起之胃潰瘍。)

Usual dose : Duodenal ulcer: 30mg PO QD before eating for 6 weeks, or for 8 weeks in gastric ulcer and reflex esophagitis.

Side effects : Diarrhea, headache, taste disturbance, nausea

Pregnancy : Category B.

Omeprazole

Supply : Omezol® 瘍寧 20 mg/Cap (OMEZOL)

Omezol® 瘍寧 40 mg/Vial IV Infusion (IOMEZOL)

Indications : Duodenal, gastric ulcer, Zollinger-Ellison disease(ZED), Gastroesophageal reflux disease. (十二指腸潰瘍、胃潰瘍、逆流性食道炎、Zollinger-Ellison 症候群、合併抗生素治療與幽門螺旋桿菌相關的消化性潰瘍。)

Usual dose : PO: Active duodenal ulcer - 20 mg qd AC for 4-8 weeks.

Gastric ulcer - 40 mg qd for 4-8 weeks. ZED – 60-120 mg qd-tid.

GERD – 20 mg qd for 4-8 weeks. IV infusion: 40 mg for 3 days, then 10-20 mg qd.

Side effects : Headache, abdominal pain, nausea, diarrhea, rash, cough.

Pregnancy : Category C.

Lactation : Avoid during breast feeding.

Dexlansoprazole

Supply : Dexilant® 得喜胃通緩釋膠囊 60mg/Cap (ODEXILA)

Indications : Erosive Esophagitis, Symptomatic Non-Erosive

Gastroesophageal Reflux Disease. (治療糜爛性逆流性食道炎維持糜爛性逆流性食道炎已治療後之療效非糜爛性胃食道逆流疾病之症狀治療。)

Usual dose : Erosive esophagitis (EE): Oral: Short-term treatment: 60 mg once daily for up to 8 weeks; maintenance of healed EE and symptomatic relief of heartburn: 30 mg once daily for up to 6 months.

Symptomatic GERD: Oral: Short-term treatment: 30 mg once daily for 4 weeks. Doses >30 mg do not provide additional benefit during maintenance phase.

Side effects : Gastrointestinal: diarrhea, abdominal pain, nausea, flatulence, vomiting; Upper respiratory tract infection.

Pregnancy : Category B.

Note : 必須整粒吞服，遇 NG 管灌病人時可打開膠囊，將藥粉顆粒與 20 西水混合後立刻給藥，不可磨碎藥粉顆粒。

6. Antidiarrheals

Bismuth subcarbonate

Supply : 次碳酸鉍 324mg/Tab (OBISM00)

Indications : Enteritis, dysentery and colitis with diarrhea, astringent. (胃酸過多、腹瀉。)

Usual dose : 1-2 Tabs, TID or QID.

Side effects : GI disturbance, anorexia, headache, malaise, skin reaction, discoloration of mucous membranes.

Diocahedral Smectite

Supply : Smecta® 舒腹達 Powder 3 g/Pack (OSMECTA)

Indications : Acute and chronic diarrhea. (急性和慢性腹瀉的治療。)

Usual dose : Adults: 1 pack PO TID; 1 pack can be mixed with 50ml of water; Children: under the age 1 y/o : 1 pack/day; 1-2 y/o : 1-2 pack/day; over 2 y/o : 3 pack/day.

Side effects : Constipation.

Note : 1. Each pack can be mixed 50 ml of water or semi-liquid.
2. Take other drug 1hr before or 4-6 hr after Smecta.

Lactobacillus casei variety rhamnosus

Supply : Antibiohilus® 阿德比 250mg/Tab (OANTIBI)

Indications : Relieve mild diarrhea, abdominal pain and constipation, intestines (bowel adjustment), soft stools. (緩解輕度腹瀉、腹痛及便秘、整腸(調整排便)、軟便。)

Usual dose : Orally. 1 cap given 2 to 4 times a day

Side effects : Bloating (intestinal), flatulence

Loperamide

Supply : Loperam® 肚倍朗 2 mg/Cap (OIMODIU)

Indications : Acute and chronic diarrhea. (急性、慢性腹瀉。)

Usual dose : Adults - 4 mg for first dose, followed by 2 mg after each unformed stool, do not exceed 16 mg/day. Children - 13-20 kg: 1 mg tid, 20-30 kg 2 mg bid, >30 kg: 2 mg tid. Subsequent doses - 0.1 mg/kg only after a loose stool.

Side effects : Abdominal pain, constipation, dry mouth, nausea, tiredness.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Usually compatible)

7. Laxatives

Bisacodyl

Supply : Bisacodyl® 無秘 10 mg/Supp (EBISA)

Indications : Constipation. (暫時緩解便秘，診斷及手術前清腸。)

Usual dose : Adults or Children (6-12y/o): Supp 10 mg once daily. Children (< 2 y/o): Supp 5mg qd.

Side effects : Mild abdominal cramps, diarrhea, proctitis.

Pregnancy : Category B.

Conslife® 秘福 (OCONSLI)

Supply : each Tab contains

Diocetyl sodium sulfosuccinate-----20 mg

Bisacodyl-----2 mg

Senoside-----10mg

Indications : Constipation. (便秘及緩和便秘所伴生之下列諸症狀：腹部膨滿、腸內異常發酵、食慾不振。)

Usual dose : 2-3 Tab hs.

EVAC® enema 意福灌腸液 (EVAC)

Supply : 118ml/Bot, each ml contains

Sodium phosphate monobasic -----139.1 mg

Sodium phosphate dibasic anhydrous -----31.8mg

Indications : Sodium phosphate and sodium biphosphate enema is used as an electrolytes laxative. (便秘之緩解，大腸檢查前腸道內容物之排

空，腹部手術前之緩下劑。))

Usual dose : Adults: 1 bot enema use; Children: 2-12 years old 0.5 bot enema use.

Side effects : The most common toxic effect of phosphate is hypocalcemia, which can occur with any route of phosphate administration.

Fleet Phospho-Soda® 佛利特護舒達 (OFLEET)

Supply : 45 ml/BT. each 15ml contains

Monobasic Sodium Phosphate-----7.2g

Dibasic Sodium Phosphate-----2.7g

Indications : For relief of occasional constipation, bowel cleaning before rectal examination.

Usual dose : Oral. Adults and ≥ 12 y/o: 20-45 ml, 10-11 y/o: 10-20 ml, 5-9 y/o: 5-10 ml.

Lactulose

Supply : Lactul® 樂多 666mg/ml 60ml/BT (OLACT60)

Indications : Portal-systemic encephalopathy, constipation. (患病期慢性便秘、門系肝腦病變、肝昏迷前期、肝昏迷。)

Usual dose : Constipation: Adult, 15ml BID, Children (5-10 yr.), 10ml BID; Children (less than 5 yr.), 5ml BID; Infant, 2.5ml BID. Hepatic encephalopathy: 30-50ml TID; Retention enema: 300ml of lactulose with 700ml water, retained for 30-60 min can be repeated for 3 times

Side effects : Gaseous distension with flatulence, abdominal cramp, nausea, vomiting, diarrhea, belching.

Pregnancy : Category B.

Niflec® Powder 耐福力散 (ONIFLEC)

Supply : 137.155 g/Bag, each g contains

Sodium chloride-----21.36mg

Potassium chloride-----10.83mg

Sodium bicarbonate-----24.57mg

Sodium sulfate anhydrous-----82.9mg

Indications : Elimination of the intestinal contents during pre-treatment for colonoscopy and large bowel operation. (大腸內視鏡檢查及大腸手術前淨腸。)

Usual dose : Dissolve one pack of Niflec powder in water to make about 2L solution. Usually, orally administer 2 L of the dissolved solution at a rate of about 1L/hour, until the stool excretion became a clear liquid. Start administration at about six hours prior to the procedure.

Side effects : Abdominal discomfort, anaphylatoid symptoms, intestinal perforation and hyponatraemia.

Normacol® 樂瑪可 (ONORMAC)

Supply : 7 g/Pack

Sterculia----- 62%

Frangulia----- 8%

Indications : Constipation. (緩解便秘。)

Usual dose : 1-2 Pack qd to bid after meals.

Side effects : Abdominal distension, intestinal obstruction.

Pregnancy : Caution should be exercised during the first trimester.

Note : Take with enough water.

Sennosides A+B

Supply : Through® 便通樂錠 12mg/Tab (OSENNO)

Indications : In the management of postoperative, chronic, geriatric, drug-induced postpartum constipation. (緩解便秘。)

Usual dose : Adults: 1-2 Tab hs; Children(6-12y/o):0.5-1 Tab hs.

Side effects : Abdominal pain, nausea, vomiting at high doses; urine discoloration.

Pregnancy : Category C.

8. GI Stimulants

Domperidone

Supply : Nidolium® 吐寧錠 10 mg/Tab (OMOTI01)

Indications : Diabetic gastroparesis, postprandial dyspepsia, emesis. (噁心、嘔吐的症狀治療，糖尿病引起的胃腸蠕動異常。)

Usual dose : Adults:10 mg tid AC; Children:0.6 mg/kg tid-qid AC.

Side effects : Galactorrhoea, EPS, cardiac arrhythmias

Lactation : Excreted in breast milk. (Usually compatible)

Metoclopramide

Supply : Promeran® 胃明朗 5 mg/Tab (OPRIMP)

Metoperan® 梅得柏朗 10 mg/2ml/Amp (IMETOPE)

Indications : Diabetic gastroparesis, gastroesophageal reflux, prevention of chemotherapy induced nausea, vomiting. (預防嘔吐、逆流性消化性食道炎、糖尿病引起之胃腸蠕動異常。)

Usual dose : GERD: 5-15 mg qid AC. Prevention of postoperative nausea and vomiting - IV 10-20 mg. Prevention of chemotherapy-induced emesis - Infuse slowly IV over not less than 15 minutes, 2 mg/kg for the initial 2 doses, then 1 mg/kg/dose. PO: 2 mg/kg, q2-4 hrs for 2-5 doses.

Side effects : Restlessness, drowsiness, lassitude, extrapyramidal symptoms

Pregnancy : Category B.

Lactation : Excreted in breast milk. (May be of concern)

Mosapride

Supply : Mopride® 摩舒胃清 5mg/Tab (OMOSAP)

Mozapry® 胃默適 5mg/Tab (OMOPRI)

Indications : Acid reflux, irritable bowel syndrome and indigestion.

Usual dose : Adults:5mg tid.

Side effects : Diarrhea, abdominal pain, dizziness, constipation, headache, sleeplessness.

9. Antiflatulents

Dimethyl polysiloxane

Supply : Gaslan® 加斯朗 40 mg/Tab (OGASLAN)

Indications : Flatulence, as a defoaming agent in radiography or endoscopy of the GI tract. (解除脹氣、緩解氣脹相關症狀。)

Usual dose : 1-3 Tabs tid-qid.

Side effects : Headache, diarrhea, abdominal pain, vomiting, nausea.

10. Digestants

Biotase® 妙化 (OBIOTAS)

Supply : Each Tab contains

Biodiastase-----30mg

Lipase-----5mg

Newlase-----10mg

Indications : 幫助消化。

Usual dose : Adults and ≥12 y/o – 2-3 Tab tid. 6-<12 y/o – 1-1.5 Tab tid.
3-<6 y/o – 0.5-0.75 Tab tid.

11. Miscellaneous

Colstridium Butyricm

Supply : Miyarisan-BM® 妙利散 40mg/g/Pack (OMIYAR)

Indications : Intestinal regulation (Regulate the stool), Diarrheas,

Abdominal pain, Abdominal distention, Constipation, Loose stool. (緩解輕度腹瀉、腹痛及便秘、整腸(調整排便)、軟便。)

Usual dose : 一天3次,或需要時服用。成人每次 1g(1包)。12歲以上,適用成人劑量。6歲以上未滿12歲,每次 1/2g(1/2包)。3歲以上未滿6歲,每次 1/4g(1/4包)。3歲以下之嬰幼兒,請洽醫師診治,不宜自行使用

Side effects : 含整腸活菌成分,偶有脹氣現象。

Silymarin

Supply : Enpex® 元佑肝 150 mg/Cap (OENPEX)

Indications : Adjunct in the treatment of liver disorders. (慢性肝病、肝變及脂肪肝之佐藥。)

Usual dose : 150 mg bid-tid.

X. Immunologic Agents

1. Vaccines and Toxoids

Hepatitis B Vaccine (rDNA)

Supply : Engerix-B® 安在時 20 mcg/ml/vial (IHEPABV)

Indications : Protection against hepatitis B. (預防B型肝炎。)

Usual dose : Adults: IM, regimen consists of 3 doses (at 0, 1, and 6 month). Booster dose: one year after the first injection, then every five years.

Side effects : Injection site soreness, fatigue, fever, malaise, headache, anaphylaxis.

Pregnancy : Category C.

Storage : Store at 2- 8°C.

Measles, Mumps and Rubella Virus vaccine (live)

Supply : M-M-R® II 0.5 ml/dose/Vial (IMMR)

Indications : Simultaneous immunization against Measles, Mumps and Rubella. (預防麻疹、腮腺炎、德國麻疹。)

Usual dose : SC. 0.5 ml for ≥ 12 months children and adults.

Side effects : Burning and stinging at the injection site, fever, rash.

Pregnancy : Category C.

Storage : Store at 2- 8°C; protect from light.

Pneumococcal 13-Valent Conjugate Vaccine

Supply : Prevenar 13® 沛兒 0.5ml/dose/Syringe (IPNEU13)

Indications : Immunization against pneumococci. (可用於出生2個月至17歲嬰兒及兒童與青少年的主動免疫接種，以預防血清型1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F及23F肺炎鏈球菌(*Streptococcus pneumoniae*)引起的侵入性疾病。沛兒肺炎鏈球菌十三價結合型疫苗也可用於預防2歲以下嬰幼兒血清型4, 6B, 9V, 14, 18C, 19F及23F肺炎鏈球菌引起的中耳炎。本疫苗可用於18歲(含)以上之成人與老年人的主動免疫接種，以預防血清型1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F及23F肺炎鏈球菌引起的侵入性疾病和肺炎。)

Usual dose : I.M. Infants aged 2 - 6 months: three single doses of 0.5 ml at interval of 1 month, starting at 2 months of age and with a fourth dose given in the second year of life.

Previously unvaccinated older infants and children:

Infants aged 7 - 11 months: two doses, each of 0.5 ml, with an interval of at least 1 month between doses. A third dose is recommended in the second year of life.

Children aged 12 - 23 months: two doses, each of 0.5 ml, with an interval of at least 2 months between doses.

Children aged 24 months - 5years: one single dose.

Side effects : Local erythema at injection site, low grade fever, mild

myalgia, rash

Storage : Store at 2- 8°C

Pneumococcal Vaccine Polyvalent

Supply : Pneumovax 23® 紐蒙肺 0.5ml/dose/vial (IPNEUMO)

Indications : Immunization against pneumococci. (預防肺炎鏈球菌性肺炎及肺炎鏈球菌性菌血症。)

Usual dose : Children >2 y/o and adults: I.M., S.C.: 0.5mL

Side effects : Local erythema at injection site, low grade fever, mild myalgia, rash

Storage : Store at 2- 8°C

Human Papillomavirus Vaccine (Type 6, 11, 16, 18)

Supply : Gardasil® 嘉喜 0.5ml/dose/Syringe (IHPV)

Indications : Prevention of vulvar and vaginal cancer.

Usual dose : I.M. 0.5mL

Side effects : Headache, feaver, nausea, dizziness, local erythema, pain, and swelling at injection site.

Storage : Store at 2- 8°C

Human Papillomavirus 9-valent Vaccine, Recombinant

Supply : Gardasil 9® 嘉喜九價 0.5ml/dose/Syringe (IHPV9)

Indications : Protect girls and women ages 9 to 26 against cervical, vaginal, vulvar, and anal cancers and genital warts caused by 9 types of HPV

Usual dose : I.M. 0.5mL

Side effects : Headache, feaver, nausea, dizziness, local erythema, pain, and swelling at injection site.

Storage : Store at 2- 8°C

Tetanus Toxoid Alum. (PPT)

Supply : 明礬沈澱破傷風類毒素 1ml/Vial (0.5 ml/dose) (ITETA01)

Indications : Immunization against tetanus. (預防破傷風。)

Usual dose : IM or SC, 2 doses of 0.5 ml 4-8 week apart, give a third dose 6-12 months after second dose, then 0.5 ml every 5-10 years.

Side effects : Erythema multiforme, convulsions, low-grade fever, chills, anaphylaxis.

Pregnancy : Category C.

Storage : Store at 2-8°C.

Zoster Virus Vaccine (live)

Supply : Zostavax® 伏帶疹 0.65 ml/dose/Vial (IZOSTAV)

Indications : Prevention of herpes zoster (shingles) in individuals 50 years of age and older. (預防 50~79 歲之成人帶狀疱疹。)

Usual dose : SC use only.

Side effects : Headache, pain, warmth, redness, bruising, itching, or swelling

Pregnancy : Category C.

Storage : Store at 2- 8°C.

XI. Antineoplastic Agents

1. Antibiotics

Doxorubicin HCl (Adriamycin HCl)

Supply : Doxor Lyo® 利癌凍晶 10 mg/Vial (IADRIB)

Indications : Leukemias, lymphomas, soft tissue and bone sarcomas, breast, bronchogenic, gastric, ovarian carcinomas, transitional cell bladder carcinoma. (急性白血球過多症、硬瘤、淋巴瘤、軟纖維性肉瘤、交感神經母細胞瘤、乳癌、肺癌。)

Usual dose : IV only. 60-75 mg/m² q3wk or 30 mg/m²/day on days 1 and 8 repeated q4wks.

Side effects : Alopecia, GI symptoms, myelosuppression, cardiac toxicity.

Pregnancy : Category D.

Lactation : Excreted in breast milk. (contraindicated)

Note : If extravasation is suspected, intermittent application of ice to the site for 15 minutes 4 times/day × 3 days.

2. Antimetabolites

Ufur® 友復 (OUFUR)

Supply : each Cap contains

Tegafur-----100mg

Uracil-----224mg

Indications : Malignant neoplasms including of the breast, GI tract.

Usual dose : Tegafur 300-600mg daily divided in 2-3 times.

Side effects : Anorexia, nausea, vomiting, diarrhea, leucopenia.

3. Hormones and Antagonists

Bicalutamide

Supply : Casodex® 可蘇多 50 mg/Tab (OCASO00)

Indications : Prostate cancer. (與LHRH類似劑療法或手術去勢療法併用於進展性攝護腺癌。)

Usual dose : 50 mg once daily.

Side effects : Hot flashes, GI symptoms, general pain, asthenia, pelvic pain, hematuria, peripheral edema, abdominal pain.

Pregnancy : Category X.

Cyproterone Acetate

Supply : Androcur® 安得卡 50 mg/Tab (OANDRO)

Indications : Male - hypersexuality, prostatic carcinoma; Female - acne, hirsutism. (男性：嚴重性慾過強、抗雄性素治療前列腺腫瘤；女性：嚴重的男性化徵狀、青春痘、多毛症。)

Usual dose : Advance prostate cancer - 200-300 mg daily. Hypersexuality in men - 50 mg bid. Postorchiectomy hot flashes - 50-300 mg/day.

Side effects : Impotence, infertility, sedation, headache, lassitude, menstrual irregularities, weight gain, rash, GI disturbance, hepatotoxicity.

Pregnancy : Do not administer cyproterone acetate to a pregnant woman.

Leuprolide Acetate

Supply : Leuplin Depot® 柳菩林 3.75mg/vial (ILEUP00)

Eligard® 癌立佳 22.5mg/Syringe (IELIGA2)

Indications : Advanced prostatic cancer, central precocious puberty, endometriosis, uterine leiomyomata. (Leuplin Depot: 前列腺癌舒解治療，子宮內膜異位，中樞性早熟症，因子宮肌瘤引起之經血過多及貧血而預計進行手術切除者，停經前乳癌。Eligard: 用於晚期前列腺癌舒解治療，以及與放射治療併用於高風險的局部和局部晚期荷爾蒙依賴型前列腺癌治療。)

Usual dose : Leuplin Depot: Prostatic cancer: 3.75 mg SC or IM once a month; endometriosis: 3.75 mg SC or IM once a month, initiate at 1st-5th day after the start of menstrual period; central precocious puberty: 300ug/kg/dose IM every 28 days (minimum dose: 7.5 mg).

Eligard: SC 1 injection every 3 months.

Side effects : Malaise, fatigue, hot flashes/sweats, and testicular atrophy.

XII. Anti-Microbial Agents

1. Antibiotics

(1) Penicillins

Side effects : Hypersensitivity, GI disturbances, eosinophilia, hemolytic anemia, nephropathy, neurotoxicity, pain at the site of injection.

Pregnancy : Category B.

Warning :

1. Contraindicate to patients with a history of hypersensitivity to penicillins .
2. Do not mix parenteral penicillins and aminoglycosides in the same solution.

(a) Penicillinase Resistant Penicillins

Dicloxacillin

Supply : Diclocin® 德可信 250 mg/Cap (ODICLOC)

Indications : Treatment of systemic infections such as pneumonia, skin and soft tissue infections, and osteomyelitis caused by penicillinase-producing staphylococci. (葡萄球菌、鏈球菌、肺炎雙球菌、腦膜炎球菌及其他具有感受性細菌引起之感染症。)

Usual dose : Adult: Oral: 125-500 mg Q6H. Children <40 kg: 12.5-25 mg/kg/day divided every 6 hours; doses of 50-100 mg/kg/day in divided doses every 6 hours have been used for therapy of osteomyelitis. Children >40 kg: 125-250 mg every 6 hours

Oxacillin

Supply : Oxacillin® 歐斯力娜 1g/Vial (IOXACIL)

Indications : Treatment of infections caused by penicillinase-producing staphylococci. (葡萄球菌、鏈球菌、肺炎雙球菌、腦膜炎球菌及其他具有感受性細菌引起之感染症。)

Usual dose : Adult: IV 0.25-2 g q4-6h; maximum dose: 12 g/day.

Pediatrics: IV, ≤ 14 days- 25 mg/kg q8-12h; 15-30days- 25 mg /kg q6h; children- same as adult dosage.

(b) Aminopenicillins

Amoxicillin

Supply : Amoxicillin® 安謀黴素 500mg/Cap (OAMOX5)

Indications : Infections caused by susceptible organisms involving the respiratory tract, skin, urinary tract. (葡萄球菌、鏈球菌、肺炎雙球菌、腦膜炎球菌及其他具有感受性細菌引起之感染症。)

Pipe&Tazo® 帝斯坦 (IPIPETA)**Supply :** Each Vial contains

Piperacillin-----2g

Tazobactam

sodium-----0.25g

Indications : Treatment of infections caused by susceptible organisms involving the lower respiratory, skin structure and urinary tract. (對 Piperacillin 具有感受性，以及對 Piperacillin 具抗藥性，但對 Piperacillin / Tazobactam 有感受性之 B-lactamase 產生菌株所引起之中至嚴重程度感染。)

Usual dose : Adults: 12 g-15 g/day IV in divided doses.

Renal impairment :	Ccr (ml/min)	Dosage regimen
	20-40	2.25 g q6h
	<20	2.25 g q8h

Note : Lactated Ringer's solution is not compatible.**Subacillin® 優合西林 (ISUBA01)****Supply :** Each Vial contains

Ampicillin Sodium-----1000 mg

Sulbactam Sodium-----500 mg

Indications : Treatment of infections caused by susceptible organisms involving the lower respiratory, skin structure and urinary tract. (鏈球菌、葡萄球菌、大腸桿菌、克雷氏菌、沙雷氏菌、流行感冒嗜血桿菌、引朵陰性變形桿菌屬、檸檬酸菌屬、厭氧性細菌(bacteriodes fusobacterium, clostridium difficile)、branhamella catarrhalis 引起之感染症。)

Usual dose : IV or IM. Adults: 1.5-12 g/day, in divided q6-8h. Children: 150 mg/kg/day, in divided q6-8h. The total dose of sulbactam should not exceed 4 gm per day.

Renal impairment :	Ccr (ml/min)	Dosage regimen
	15-29	1.5-3 g q12h
	5-14	1.5-3 g q24h

(2) Cephalosporins

Side effects : GI disturbances, hypersensitivity phenomena, hematologic effects, CNS effects, dyspnea.

Pregnancy : Category B.

(a) First Generation

Cephalexin

Supply : Cephalexin® 賜福力欣 500mg/Cap (OCEPHA)

Indications : Treatment of infections caused by staphylococci, streptococci, and other susceptible microorganisms. (葡萄球菌、鏈球菌、肺炎雙球菌、腦膜炎球菌及其他具有感受性細菌引起之感染症。)

Usual dose : Adults: 250-500 mg orally Q6H, maximum dose up to 4 g/day. Children: 25-100 mg/kg/day divided into 4 doses, maximum dose up to 3 g/day.

Lactation : Excreted into breast milk in low concentrations.

Cefazolin Sodium

Supply : Stazolin® 賜爾寧 1 g/Vial (ISTAZOL)

Indications : Treatment of infections caused by staphylococci, streptococci, pneumococci and other susceptible microorganisms. (葡萄球菌、鏈球菌、肺炎雙球菌、腦膜炎球菌及其他具有感受性細菌所引起之感染症。)

Usual dose : IM or IV. Adults: 0.5-1 g q6-8h. Max.12 g/day;
Children: 25-50 mg/kg/day q6-8h, severe inf. 100 mg/kg/day q6-8h.

Renal impairment :	Ccr (ml/min)	Dosage regimen
	35-54	0.25-1 g q8h
	11-34	0.125-0.5 g q12h
	≤ 10	0.125-0.5 g q18-24h

Lactation : Excreted in breast milk.(Usually compatible)

(b) Second Generation

Cefmetazole

Supply : Cetazone® 喜達隆 1g/Vial (ICEFMET)

Cetazone® 喜達隆 500mg/Vial (IMETACI)

Indications : Treatment of infections caused by Staphylococcus、streptococcus、pneumococcus、meningococcus. (葡萄球菌、鏈球菌、肺炎雙球菌、腦膜炎球菌及其他具有感受性細菌引起之感染。)

Usual dose : Adult: IV 1-2g daily divided in 2 times. Children: 25-100mg/kg/day divided in 2-4 times.

(c) Third Generation

Ceftazidime

Supply : Sintum® 信騰 1g/Vial (ISINT01)

Indications : Treatment of documented susceptible *Pseudomonas aeruginosa* and other gram(-) organisms infection. (對多種乙內醯胺酶有抵抗力，並對廣範圍的革蘭氏陽性菌及陰性菌有效。)

Usual dose : IM or IV. Adults: 250 mg-2.0 g q8-12h, Max. 6 g/day;
Children: 30-50 mg/kg q8h.

Renal impairment :	Ccr (ml/min)	Dosage regimen
	31-50	1 g q12h
	16-30	1 g q24h
	6-15	500 mg q24h
	≤5	500 mg q48h

Lactation : Excreted in breast milk. (Usually compatible)

Ceftibuten

Supply : Seftem® 協復鼎 100 mg/Cap (OCEFT10)

Indications : Treatment of acute bacterial exacerbations of chronic bronchitis, acute otitis media, pharyngitis, tonsillitis and Infections caused by susceptible organisms. (對本劑有感受性的細菌引起之下列感染症：支氣管炎、支氣管擴張症感染、慢性呼吸道疾患二次感染、腎盂腎炎、膀胱炎、急性攝護腺炎、淋菌性尿道炎。)

Usual dose : Adults - 200 mg bid or 100 mg tid. Children – 9 mg/kg/day.

Renal impairment :	Ccr (ml/min)	Dosage regimen
	30-49	200mg/day
	5-29	100mg/day

Side effects : Diarrhea, nausea, vomiting, pruritus, urticaria, Hb↓, SGOT、SGPT↑, eosinophilia.

Ceftriaxone Disodium

Supply : Ceftriaxone® 西特亞 1g/Vial (ICEFT00)

Indications : Treatment of susceptible infection in lower respiratory tract, skin/skin structure, bone/joint, urinary tract, gynecologic, septicemia. (葡萄球菌、鏈球菌、肺炎雙球菌、腦膜炎球菌及其他具有感受性細菌引起之感染症。)

Usual dose : For IM or IV. Adults: 1-2 g/day q12h-qd, Max. 4 g/day;
Children: 50-75 mg/kg/day q12h.

Note : Concurrent calcium-containing solutions or products, even via different infusion lines, must not be administered within 48 hrs.

Flomoxef

Supply : Flumarin® 氟徽寧 1g/Vial (IFLOMO)

Indications : Treatment of susceptible infection in respiratory tract, skin/skin structure, bone/joint, urinary tract, gynecologic, septicemia. (對本劑有感受性之下列病原菌所引起之嚴重感染: 葡萄球菌屬、鏈球菌屬(腸球菌除外)、肺炎球菌、peptostreptococcus屬、Branhamella catarrhalis、淋菌、大腸菌、Klebsiella屬、Proteus屬、Influenzae菌、Bacteroides屬。)

Usual dose : IV. Adults: 1-2 g q12h; Children: the usual doses employed have been 20 to 150 mg/kg IV 3 times daily; Neonatal: 20 to 30 mg/kg IV 2 or 3 times daily.

Side effects : Rash, urticaria, GOT, GPT↑, eosinophilia, thrombocytosis.

Storage : Reconstituted solution can be stable for 6 hours at room temperature, up to 24 hrs at 2-8°C.

(d) Fourth Generation

Cefepime

Supply : Supecef® 斯沛服 500 mg/Vial (ICEFIM2)

Indications : Treatment of susceptible organisms in severe infections. (對 Cefepime 具感受性之細菌性感染症。)

Usual dose : IV. 0.5-1 g q12h, severe infection - 2 g q12h, for febrile neutropenic patients - 2 g q8h. Pediatrics: 50 mg/kg IV q8-Q12h.

Renal impairment :	Ccr (ml/min)	Dosage regimen	Max. dose
	30-60	0.5-2 g q24h	2 g q12h
	11-29	0.5-1 g q24h	2 g q24h
	<11	0.25-0.5 g q24h	1 g q24h

Side effects : Headache, dyspepsia, phlebitis, blurred vision.

Lactation : Excreted in breast milk.

Note : IV administration over 30 minutes.

(3) Carbapenem

Doripenem

Supply : Finibax® 伏霸 250mg/Vial (IFINIBA)

Indications : Complicated intra-abdominal infections, Complicated urinary tract infections, including pyelonephritis. (對 Doripenem 具感受性之菌種的複雜性泌尿道感染(包括腎盂腎炎)及複雜性腹腔內感染。)

Usual dose : Adult over 18-year-old: I.V.: 500 mg Q8H.

Renal impairment :	Ccr (ml/min)	Dosage regimen
	30-50	250mg q8h
	11-29	250mg q12h

Side effects : Headache, nausea, diarrhea, rash and phlebitis.

Pregnancy : Category B

Note : Infuse intravenously over at least 1 hour.

Ertapenem

Supply : Invanz® 益滿治 1g/Vial (INVANZ)

Indications : Community Acquired Pneumonia, Complicated Skin and Skin Structure Infections, Complicated Intra-Abdominal Infections, Acute Pelvic Infections, Complicated Urinary Tract Infections. (INVANZ 適用於治療病患由具感受性之微生物所引起的中度至重度感染，而且適用於下列感染在尚未鑑定出病原菌之前按經驗的治療處理(EMPIRIC THERAPY): 1.複雜的腹腔內感染 2.複雜的皮膚和皮膚組織感染 3.感染性肺炎(COMMUNITY ACQUIRED PNEUMONIA) 4.複雜的尿道感染，包括腎盂腎炎 5.急性骨盆感染，包括產後子宮內肌炎、敗血性流產和手術後婦科感染。)

Usual dose : Adults and Children(≥ 13 yrs): 1 gm IV/IM once a day.

Children (3 months to 12 yrs): 15 mg/kg twice daily (not to exceed 1 g/day).

Renal impairment :	Ccr (ml/min)	Dosage regimen
	< 30	500mg q24h
	hemodialysis	500mg q24h

Side effects : Diarrhea (4.3%), infused vein complication (3.9%), nausea (2.9%) and headache (2.1%).

Pregnancy : Category B

Note : Ertapenem should be infused over 30 minutes.

Meropenem Trihydrate

Supply : Melopen® 美保平 1g/Vial (IMEROP)

Indications : Treatment of susceptible organisms infections involving intra-abdominal infections and bacterial meningitis. (對 Meropenem 具有感受性之細菌引起之感染症。)

Usual dose: Adults – 0.5-1 g q8h, children(≥3 months) - 10-40 mg/kg q8h. Max. 2 g q8h.

Renal impairment :	Ccr (ml/min)	Dosage regimen
	26-50	1 g q12h
	10-25	250-500 mg q12h
	<10	250-500 mg q24h

Side effects : Diarrhea, nausea, vomiting, headache, rash, pruritus, apnea.

Pregnancy : Category B

Note : Do not dilute with sterile water for injection.

(4) Aminoglycosides

Side effects : Nephrotoxicity, ototoxicity, neuromuscular blockade, rash.

Warning :

1. Ototoxicity and nephrotoxicity are the most serious adverse effects of aminoglycoside, TDM can assure therapeutic level and avoid toxicity.
2. Dosage adjustment is required in patients with renal impairment.
3. Ototoxicity may be increased by loop diuretics.
4. The neuromuscular blocking effects of neuromuscular blockers, depolarizing and nondepolarizing, are enhanced by aminoglycosides.

Amikacin Sulfate

Supply : Acemycin® 時欣黴素 500mg/2ml/Vial (IACEMYC)

Indications : Infections due to G(-) organisms (including Pseudomonas). (對 gentamicin 具耐藥性之綠膿菌、變形菌、鋸桿菌、大腸菌、克雷白氏桿菌、腸內桿菌、檸檬桿菌屬 citrobacter 等對於 amikacin 具敏感性之細菌所引起之下列感染症：敗血症、支氣管擴張症之感染症、肝炎、肺化膿症、腹膜炎、腎盂腎炎、膀胱炎、尿道炎、創傷、熱傷及手術後繼發性感染症。)

Usual dose : IM or IVD. Adults: 5 mg/kg/day in 2-3 divided doses, Max. 1.5 g/day. Infants and Children: 5-7.5 mg/kg/dose every 8 hours

Renal impairment :	Ccr (ml/min)	Dose	Interval
	>50	60-90% of normal	q12h
	10-50	30-70% of normal	q12-18h
	<10	20-30% of normal	q24-48h

Pregnancy : Category D.

Lactation : Excreted in breast milk is small amount.

Gentamicin

Supply : Gentamycin® 健達黴素 80 mg/2ml/Amp (IGENT02)

Indications : Treatment of infections due to G(-) organisms. (革蘭氏陽性、陰性菌、立克次氏體及巨型濾過性病毒感染症。)

Usual dose : IM or IVD. Adults: 1-2.5 mg/kg q8h, life-threatening infections 5 mg/kg/day; Children: 2-2.5 mg/kg q8h.

Renal impairment :	Ccr (ml/min)	Dose	Interval
	>50	60-90% of normal	q8-12h
	10-50	30-70% of normal	q12h
	<10	20-30% of normal	q24-48h

Pregnancy : Category D.

Lactation : Excreted in breast milk. (Usually compatible)

(5) Chloramphenicol

Chlotin 克路淨栓劑 (ECHLOT)

Supply : Each vaginal supp contains

Chloramphenicol-----	100 mg
Carbarsone-----	100 mg
Benzethonium chloride-----	1mg

Indications : Candidal, trichomonal vaginitis. (急慢性陰道炎、由陰道滴蟲引起之陰道炎、子宮頸管炎其他各種原因引起之白帶。)

Usual dose : 1VT 1-2 times daily.

Side effects : Burning, itching.

(6) Tetracyclines

Warning :

1. Should not generally be used in children under 8 years of age
2. May ↑ digoxin levels and ↓ therapeutic effect of Penicillins.
3. Administer tetracyclines at least 2 hrs before or after antacids.

Doxycycline

Supply : Doxynin® 得喜寧 100 mg/Cap (ODOXY2)

Indications : Bacterial infections, anthrax, chlamydial infection, cholera, syphilis. (治療由感受性革蘭氏陽性菌及革蘭氏陰性菌所引起之感染。)

Usual dose : Adult : Oral, 100-200 mg/day in 1-2 divided dose, dosage adjustments are not required for patients with renal impairment.

Side effects : Nausea, diarrhea, may cause discoloration of teeth in children especially during growth.

Pregnancy : Category D.

Lactation : May give with meals to decrease GI upset.

Minocycline HCl

Supply : Cyclin® 賽靈 100 mg/Cap (OMINOC)

Indications : Treatment of susceptible bacterial infections, acne. (具感受性革蘭氏陽性及陰性菌、立克次氏體、巨型濾過性病毒所引起之感染症。)

Usual dose : Adults: 200 mg initially, then 100 mg q12h. Children: 4 mg/kg initially, then 2 mg/kg q12h.

Side effects : Dizziness, vertigo, photosensitivity, blue-gray pigmentation, nausea, diarrhea, fatty liver, hepatotoxicity.

Pregnancy : Category D.

Lactation : Excreted in breast milk.

(7) Macrolides

Azithromycin

Supply : Zithromax® 日舒 250mg/Tab (OZITHRO)

Zithromax® 日舒 40 mg/ml 15ml/BT (OZITHL)

Indications : Treatment of otitis media, community-acquired pneumonia, pharyngitis, tonsillitis and Infections caused by susceptible organisms. (革蘭氏陽性、陰性及厭氧菌引起之下呼吸道感染(支氣管炎及肺炎)、皮膚及軟組織感染、中耳炎、上呼吸道感染和性傳染病。)

Usual dose : Adults: 500 mg qd on the first day followed by 250 mg qd on days 2-5; Children: acute otitis media - 10 mg/kg on day 1, followed by 5 mg/kg on days 2-5 or 10 mg/kg qd for 3 days. Pharyngitis/tonsillitis - 12 mg/kg qd for 5 days.

Side effects : Nausea, vomiting, diarrhea, abdominal pain, cramping.

Pregnancy : Category B.

Lactation : Excreted in breast milk.

Note : 1. Azithromycin should not be mixed or taken with food.

2. Not to take antacids and azithromycin simultaneously.

Clarithromycin

Supply : Clarithrocin® 可速欣 500mg/Tab (OCLARTH)

Indications : Respiratory infection, Helicobacter pylori dual or triple therapy. (上、下呼吸道有感受性細菌所引起之感染症, 可與omeprazole 併用治療與幽門螺旋桿菌(H. pylori)有關之十二指腸潰瘍。)

Usual dose : Adults - 250-500 mg q12h; children - 15 mg/kg/day q12h.

Side effects : Diarrhea, abnormal taste, abdominal pain, headache.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (May be of concerned)

Note : May increase the effects of buspirone, carbamazepine, cilostazol, cisapride, tacrolimus.

Erythromycin Estolate

Supply : Erythromycin® 紅黴素 250 mg/Tab (OERYT00)

Indications : Treatment of susceptible bacterial infections including

Legionella pneumophila, *mycoplasma pneumoniae*. (葡萄球菌、連鎖球菌、肺炎球菌、淋菌、髓膜炎菌、流行性感胃嗜血桿菌引起之感染症。)

Usual dose : Adults: PO 250-500 mg q6-12h AC 1 hours. Children: 30-50 mg/kg/day q6h.

Side effects : Abdominal cramping, nausea, vomiting, ototoxicity.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Usually compatible)

Note : May increase the effects of digoxin, methylprednisolone, cisapride, carbamazepine, theophylline, buspirone, cilostazole, tacrolimus.

(8) Lincosamides

Clindamycin

Supply : Lindacin® 利達信黴素 150 mg/Cap (OCLINDA)

Clicin® 克力欣 300 mg/2ml/Amp (ICLEOC)

Indications : Treatment of infections due to G(+), anaerobic organisms. (鏈球菌、葡萄球菌、肺炎雙球菌等所引起之感染症。)

Usual dose : Adults: PO 150-450 mg q6h, IM or IV 600-1200 mg/day in 2-4 equal doses; life-threatening infection - IV 4.8 g/day; single IM injections \geq 600 mg are not recommended. Children: PO 8-20 mg/kg/day q6-8h, IV or IM 20-40 mg/kg/day q6-8h.

Side effects : Diarrhea, pseudomembranous colitis, neutropenia, rash.

Pregnancy : Category B.

Lactation : Excreted in breast milk. (Usually compatible)

Note : 1. Infusion rates of IV clindamycin should not exceed 30 mg/min.
2. Take oral form with a full glass of water or food to avoid esophageal irritation.

(9) Fluoroquinolones

Note : 1. Safety and efficacy not established under 18 years.
2. Do not take antacids or products containing iron or zinc simultaneously (markedly reduce oral absorption) or within 4 hours before or 2 hours after dosing.
3. The U.S. FDA is advising that the serious side effects associated with fluoroquinolone antibacterial drugs generally outweigh the benefits for patients with acute sinusitis, acute bronchitis, and uncomplicated urinary tract infections who have other treatment options.

Ciprofloxacin

Supply : Seforce® 賜保欣 400mg/200ml/Bag (ISEFORC)

Indications : Treatment of infections caused by susceptible organisms involving the lower respiratory, skin structure, urinary tract, and bone. (成人：對ciprofloxacin有感受性細菌所引起之呼吸道感染、中耳炎、竇炎、眼感染、腎臟及泌尿道感染(包括淋病)、腹部感染(包括腸炎、膽囊炎、腹膜炎)、皮膚及軟組織感染、骨髓炎、關節感染、菌血症。小孩：一大腸桿菌(*Escherichia coli*)引起之複雜性泌尿道感染和腎盂腎炎(1-17歲) — 綠膿桿菌(*P. aeruginosa*)有關之囊腫性纖維化產生急性肺部惡化的現象(5-17歲) 成人和小孩：吸入性炭疽病(接觸後)。)

Usual dose : V 400 mg q12h.

Renal impairment :	Ccr (ml/min)	Dosage regimen
	30-50	400 mg q12h
	5-29	200-400 mg q18-24h

Side effects : Diarrhea, abdominal discomfort, rash, dizziness, seizure, restlessness, headache.

Pregnancy : Category C.

Note : Administer by slow I.V. infusion over 60 minutes to reduce the risk of venous irritation.

Levofloxacin

Supply : Vorotal® 樂富妥 500mg/Tab (OCRAV01)

Cravit® 可樂必妥 500mg/100ml/Bot (ICRAVIT)

Levofloxacin® 可減妥 750mg/150ml/Bot (ILEVOFL)

Indications : Respiratory tract, skin and structure, urinary tract infections, acute pyelonephritis. (治療成人因對 levofloxacin 有感受性的致病菌所引起之下感染：社區性肺炎、複雜性尿道感染(包括：腎盂腎炎)、皮膚和軟組織感染。慢性細菌性前列腺炎。)

Usual dose : PO or IV 500-750mg once daily.

Renal impairment :	Ccr (ml/min)	Dosage regimen
	20-49	250mg qd or 750mg qod
	10-19	250mg or 500mg qod

Side effects : Dizziness, headache, fever, insomnia, nausea, vomiting, diarrhea, constipation, decreased vision

Pregnancy : Category C.

(10) Miscellaneous

Colistin methanesulfonate

Supply : Colimycin® 克痢黴素 2mU/Vial (ICOLI)

Indications : Treatment of infections due to sensitive strains of certain gram-negative organisms including *Enterobacter aerogenes*, *Escherichia coli*, *Klebsiella pneumoniae*, and *Pseudomonas aeruginosa*. (限用於一般抗生素無效，且具多重抗藥性之革蘭氏陰性菌)

之嚴重感染。)

Usual dose : Adults and Children: 2.5~5 mg/kg/day IM or IV in 2-4 divided doses for patients with normal renal function, MAX dose: 5 mg/kg/day.

Side effects : Nephrotoxicity; neurotoxicity including circumoral paresthesias or numbness, tingling or formication of the extremities, generalized pruritus, vertigo, dizziness and slurring of speech.

Pregnancy : Category C.

Fusidate Sodium

Supply : Fucidin® 服即淨 250 mg/Tab (OFUCIDI)

Indications : Gram-positive bacterial infections. (革蘭氏陽性菌及葡萄球菌引起之感染症。)

Usual dose : PO, Adults and children > 12yr - 500 mg tid; skin, soft tissue infections - 250 mg bid. Dosage may be doubled in severe cases.

Side effects : GI disturbances(dyspepsia, nausea, vomiting, diarrhea), jaundice.

Metronidazole

Supply : Flagyl® 服立治兒 250mg/Tab (OFLAGY)

SABS® 沙普 500mg/100ml/Bot (ISABS)

Frotin® 服樂淨栓劑 250mg/Vaginal Supp (EMETRO)

Indications : Treatment of susceptible anaerobic bacterial. (治療陰道滴蟲感染所引起之陰道炎、白帶、阿米巴痢疾、阿米巴肝膿腫、及對 metronidazole 具有感受性之厭氧菌所引起之嚴重感染。對 metronidazole 具有感受性之厭氧菌所引起之嚴重感染及對 clindamycin, chloramphenicol, penicillin 具有抗藥性之易脆桿菌 (bacteroides fragilis) 所引起之感染有效。)

Usual dose : Anaerobic infection or Intra-abdominal infection: PO or IV, 500 mg every 6 hours (MAX: 4 g/day); Initial: 1 g IV loading dose may be administered; Clostridium difficile -associated diarrhea (CDAD) (off-label use): Adults: PO 500 mg 3 times daily for 10 to 14 days; Children: 30 mg/kg/day divided every 6 hours for ≥10 days (maximum: 2 g/day). Trichomoniasis: Adults : PO 375 mg twice daily for 7 days; Vaginal Supp 1 Supp qd. Children: 15 mg/kg/day in divided doses every 8 hours for 7 days. Amebiasis: Adults: PO 750 mg Q8H for 5-10 days; Children: PO 35-50 mg/kg/day in 3 divided dose for 5-10 days, MAX dose 2.4 g/day.

Side effect : Dizziness, headache, diarrhea, seizure, peripheral neuropathy

Pregnancy : Category B. (Use during pregnancy only if clearly needed)

Lactation : Excreted in breast milk. (May be of concern)

Note : 1. Patients with impaired liver function need dosage adjustment.
2. May increase the anticoagulant effect of warfarin.

Vancomycin HCl

Supply : Vancomycin® 萬克黴 1g/Vial (IVANC1G)

Indications : Staphylococcal infections (include endocarditis, osteomyelitis, pneumonia, septicemia, soft tissue infections). (葡萄球菌感染所致之心內膜炎、骨髓炎、肺炎、敗血病、軟組織感染、腸炎、梭狀桿菌感染所致之假膜性結腸炎。)

Usual dose : IV, Adults: 500 mg q6h or 1g q12h; Children: 40 mg/kg/day.
Renal impairment :

Ccr (ml/min)	Dosage regimen	Ccr (ml/min)	Dosage regimen
100	1545 mg q24h	50	770 mg q24h
90	1390 mg q24h	40	620 mg q24h
80	1235 mg q24h	30	465 mg q24h
70	1080 mg q24h	20	310 mg q24h
60	925 mg q24h	10	155 mg q24h

Side effects : Vertigo, dizziness, anaphylaxis, drug fever, nausea, rash.

Pregnancy : Category C.

Note : Red man syndrome is usually stimulated by a too rapid IV infusion. Administer each dose up to 2 hrs. Max. conc. of administration 5mg/ml.

2. Antifungal Agents

Econazole Nitrate

Supply : Ecovale® 美汝栓劑 150mg/Vaginal Supp (EECOVAL)

Indications : Infection of vaginal caused by fungus. (念珠菌性女陰陰道炎及併有革蘭氏陽性細菌感染之婦女陰道炎。)

Usual dose : 1 Vaginal suppository hs for 7 days.

Side effects : Burning, stinging, erythema.

Pregnancy : Category C.

Storage : 2-8°C

Fluconazole

Supply : Diflucan® 泰復肯 150 mg/Cap (ODIFLUC)

Indications : Candidiasis, fungal, cryptococcal infections. (念珠菌局部或全身感染、囊球菌感染、預防後天免疫缺乏症候群病人的黴菌感染。)

Usual dose : Adults: Oral 150 mg once or Loading dose: 200 to 800 mg; maintenance: 200 to 800 mg once daily; duration and dosage depend on location and severity of infection. Pediatrics: Oral, Loading dose: 6 to 12 mg/kg/dose; maintenance: 3 to 12 mg/kg/dose once daily; duration and dosage depend on location and severity of infection.

Renal impairment : Ccr (ml/min) Dosage regimen
11-50 50% dose

Side effects : Headache, nausea, abdominal pain, diarrhea, skin rash.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Note : May increase the effect of warfarin, buspirone, carbamazepine, cisapride, cyclosporin, tacrolimus.

Nystatin

Supply : Nystatin® 寧司泰定 500,000 U/Cap (ONYSTAT)

Indications : Treatment of susceptible cutaneous, mucocutaneous, and oral cavity fungal infections normally caused by *Candida* species. (腸道念珠菌感染症之預防與治療、當廣效性抗生素或類固醇療法時併用為念珠菌過度增殖之預防療法。)

Usual dose : Tab - 500000-1000000 U tid-qid. Suspension: Shake well before using. Should be swished about the mouth and retained in the mouth for as long as possible (several minutes) before swallowing.

Side effects : Diarrhea, vaginal irritation and pain, skin irritation.

Pregnancy : Category C.

Terbinafine HCl

Supply : Fungitech® 徽特克舒 250 mg/Tab (OFUNGI)

Indications : Onychomycosis. (甲癬、髮癬，嚴重且廣泛且經局部治療無效的皮膚黴菌感染。)

Usual dose : 250 mg qd. Fingernail - for 6 weeks, Toenail - for 12 weeks.

Side effects : Diarrhea, dyspepsia, rash, pruritus, contact dermatitis, liver enzyme abnormalities, headache.

Pregnancy : Category B.

Note : Not recommend for patients with chronic or active liver disease.

3. Tuberculostatic Agents

Isoniazid (INAH)

Supply : Isoniazid® 異菸鹼醯 100mg/Tab (OISCOT)

Indications : Bacteriostatic or bactericidal against *Mycobacterium tuberculosis*, used for pulmonary and extrapulmonary tuberculosis disease. (肺結核、喉頭結核、腸結核、膀胱結核、皮膚結核、結核性髓膜炎、結核性膿胸、腎臟結核。)

Usual dose : Use in conjunction with at least one other antituberculosis agent. Usual dose: 5-10mg/kg/day (up to 300mg/day) in a single dose.

Side effects : Peripheral neuritis, hypersensitivity, hepatic injury, GI upsets, Vit B6 deficiency.

Pregnancy : Category C.

Ethambutol HCl (EMB)**Supply** : Eambutol® 醫肺妥 400 mg/Tab (OEMB)**Indications** : Tuberculosis. (結核病。)**Usual dose** : Initial 15 mg/kg qd, retreatment 25 mg/kg qd.**Side effects** : Headache, confusion, abdominal pain, rash, optic neuritis (blurring red-green color blindness), acute gout or hyperuricemia.**Pregnancy** : Category B.**Lactation** : Excreted in breast milk. (Usually compatible)**Note** : Not recommended for use in children <13 years old.**Rifampicin (Rifampin)****Supply** : Rifampicin® 立汎黴素 300 mg/Tab (ORIFAM3)**Indications** : Bactericidal and active against Mycobacterium tuberculosis, M. bovis, M. marinum, M. kansasii, and gram positive and negative bacteria including Neisseria, Staphylococcus aureus, Haemophilus influenzae, Legionella pneumophila. (肺結核、奈瑟氏腦膜炎球菌帶原者)**Usual dose** : PO 1 hour before or 2 hour after meals. For treatment of tuberculosis, use in combination with at least one other antituberculosis agent, usual adult dose: 600mg/day as a single dose. Children > 5 years, 10-20mg/kg/day, daily dose should not exceed 600mg.**Side effects** : GI disturbances, hypersensitivity reaction, headache, drowsiness, fatigue, ataxia, visual disturbances, mental confusion.**Pregnancy** : Category C.**Note** : 尿液、糞便、體液可能變橘紅色。**Rifater® 衛肺特 (ORIFATE)****Supply** : Each Tab contains

Rifampin -----120mg

Isoniazid -----80mg

Pyrazinamide-----250mg

Indication : Tuberculosis. (結核病。)**Usual dose** : PO, weight <50 kg 4Tab/day, weight > 50 kg 5Tab/day**Side effects** : Same as Rifampin, Isoniazid and Pyrazinamide.**Pregnancy** : Category C.**Lactation** : Excreted in breast milk. (Usually compatible)**Rina® 利肺 (ORINA)****Supply** : Each Cap contains

Rifampin -----300mg

Isoniazid -----150mg

Indication : Tuberculosis. (結核症，肺結核、支氣管結核、腎結核及其他結核桿菌引起之結核症)。**Usual dose** : 2 Cap qd.

4. Sulfonamides

- Warning :** 1. Use cautiously in patients with G-6-PD deficiency, hepatic or renal impairment, blood dyscrasia.
2. Adequate fluid intake is required to prevent crystalluria.
3. May increase the anticoagulant effect of warfarin.

Morcasin® 孟克杏 (OBAKTE1)

Supply : Each Tab contains

Sulfamethoxazole -----400 mg

Trimethoprim-----80 mg

Indications : UTI , shigellosis enteritis, acute otitis media in children, Pneumocystis carinii pneumonia, traveler's diarrhea in adults. (由革蘭氏陽性菌及陰性菌所引起之呼吸道、泌尿道、腸胃道感染症。)

Usual dose : UTI , shigellosis, acute otitis media - Adults: PO 160 mg TMP /800 mg SMZ q12h. Children: 8 mg TMP/40 mg SMZ/day q12h. Pneumocystis carinii pneumonia - 15-20 mg TMP/kg/day q6h.

Side effects : GI disturbances, allergic skin reactions, blood dyscrasia, hepatitis, local pain.

Pregnancy : Category C (Do not use at term).

Lactation : Excreted in breast milk. (Usually compatible)

Note : May increase the effects of Phenytoin, Sulfonyleureas, Warfarin.

5. Anti-Viral Agents

Acyclovir

Supply : Acyclete® 敵疱治 200mg/Tab (OZOVIR1)

Indications : Herpes simplex virus infections, varicella-zoster infections. (帶狀包疹病毒引起之感染、單純包疹病毒引起之皮膚及粘膜感染、預防骨髓移植及白血病所引起之免疫不全病人之單純包疹感染、復發性單純包疹感染之抑制、水痘感染。)

Usual dose : Herpes simplex virus infection - Oral, 200 mg q4h 5 times daily for 10 days. Chickenpox – Oral 20 mg/kg (not to exceed 800 mg) qid daily for 5 days.

Side effects : Malaise, nausea, headache, phlebitis at injection site.

Pregnancy : Category C.

Lactation : Excreted in breast milk. (Usually compatible)

Amantadine see page 29

Oseltamivir Phosphate

Supply : Tamiflu® 公費克流感 75 mg/Cap (OTAMI00)

Tamiflu® 自費克流感 75 mg/Cap (OTAMI)

Indications : Influenza infection in adults. (流行性感冒之預防及治療。)

Usual dose : 75 mg twice daily for 5 days. Clcr 10-30 ml/min – 75 mg once daily for 5 days.

Side effects : Nausea, vomiting, abdominal pain, conjunctivitis, epistaxis.

Pregnancy : Category C.

Note : Begin treatment within 2 days of onset of symptoms of influenza.

6. Antimalarial Agents

Hydroxychloroquine

Supply : Plaquenil® 必賴克康 200 mg/Tab (OPLAQUE)

Indications : Malaria, systemic lupus erythematosus, rheumatoid arthritis.

(圓盤狀及全身性紅斑性狼瘡、慢性多形日光疹、慢性風濕性關節炎、鐮狀瘧原蟲和間日瘧原蟲引起之瘧疾。)

Usual dose : Adults: Malaria, as a suppressive 400mg QW; for therapy, initially 800mg, followed by 400mg in 6-8 hours, and 400mg QD on 2nd and 3rd days. Lupus erythematosus: 200 - 400mg QD or BID.

Rheumatoid arthritis: 400-600mg QD to start taken with food or milk, until remission occurs, then 200-400mg QD for maintenance.

Children: Malaria, as suppressive: 5mg (calculated as base)/kg, not exceed the adult dose regardless of weight; for therapy: initially 10mg/kg be taken in two divided doses 6 hours apart. The suppressive therapy should be continued for 8 weeks after leaving the endemic area.

Side effects : Headache, vertigo, itching, rash, diarrhea, stomach cramps, ocular toxicity such as retinopathy.

Pregnancy : C.

Lactation : Excreted in breast milk. (Usually compatible)

7. Antiprotozoals

Chlotin® see page 118

Metronidazole see page 122

Policresulen (Meta-cresolsulfonic acid)

Supply : Albothyl® 安可治陰道栓劑 90 mg/Supp (EALBOTH)

Indications : Local treatment of inflammation or infection and tissue damage of vagina and cervix. (子宮頸糜爛、白帶、陰道炎、子宮頸炎 (含由毛滴蟲及念珠菌引起者。))

Usual dose : 1 vaginal suppository should be used every second day.

Side effects : Local irritation.

Storage : 2-8°C.

XIII. Urinary Tract Products

1. Alkalinizers

Potassium Citrate

Supply : Destone® 去石寧 540 mg/Tab (K=5 mEq/Tab) (OUROCIK)

Indications : Reducing the rate of stone formation in patients with hypocitruria. (併有鈣結石的腎小管性酸中毒，任何病因的尿中低檸檬酸性草酸鈣腎石病，不論是否併有鈣結石的尿酸性腎石病。)

Usual dose : Severe hypocitruria - 60 mEq/day.

Mild to moderate hypocitruria - 30 mEq/day, Max. 100 mEq/day.

Side effects : Diarrhea, nausea, stomach pain, flatulence, vomiting.

2. Cholinergic Stimulants for Urinary Retention

Bethanechol Chloride

Supply : Dampurine® 舒解 25 mg/Tab (OBESAC)

Indications : Non-obstructive urinary retention. (手術後、產後之非阻塞性儲留，神經性膀胱緊張力減低及尿儲留。)

Usual dose : Adult: Urinary retention: initial, 5 to 10 mg PO repeated hourly until satisfactory response, MAX 50 mg; usual dose range, 10 to 50 mg PO 3 or 4 times daily ; Children: 0.6 mg/kg/day PO divided in 3 or 4 doses.

Side effects : Lightheadedness, syncope, flushing, diarrhea, stomach cramps, dizziness, excessive tear production, miosis, urgent desire to urinate.

Pregnancy : Category C.

Note : If taken soon after eating, nausea and vomiting may occur.

3. Antispasmodics

Flavoxate HCl

Supply : Genxate® 尿適 200 mg/Tab (OGENUR)

Indications : Relief of dysuria, urgency, nocturia, suprapubic pain. (頻尿、殘尿感、神經性頻尿、慢性前列腺炎及慢性膀胱炎。)

Usual dose : 100-200 mg tid-qid.

Side effects : Nausea, vomiting, dry mouth, nervousness, vertigo, headache, drowsiness, tachycardia, palpitation.

Pregnancy : B.

Oxybutynin Chloride

Supply : Oxyban® 我喜滿 5 mg/Tab (ODITROP)

Indications : Bladder instability. (因膀胱神經之控制不適所伴隨排尿諸症之緩解。)

Usual dose : Adults: 5 mg bid-tid, Max. 5 mg qid;

Children (>5 years): 5 mg bid, Max. 5 mg tid.

Side effects : Dry mouth, decreased sweating, rash, urinary retention, mydriasis, amblyopia.

Pregnancy : Category B.

Pipoxolan

Supply : Rowapraxin® 柔瓦拉欣 10mg/Tab (OROWAP)

Indications : 平滑肌之痙攣：由於痙攣所引起的疼痛、特別在腎臟及尿道處、由於偏頭痛型的血管性頭痛。

Usual dose : Adults: vascular type headache: 1 tab PO TID; urinary

spasm: 1-3 tab PO TID. Children: age above 6: 1-3 tab PO QD to

BID; children age under 6: not recommended.

Side effects : No further data available.

Solifenacin

Supply : Vesicare® 衛喜康 5mg/Tab (OVESI01)

Indications : Treatment of overactive bladder with symptoms of urge urinary incontinence, urinary frequency and urgency. (對於膀胱過動症病人所伴隨之急迫性性尿失禁、頻尿、尿急等之症狀性治療。)

Usual dose : 5 mg orally once daily.

Side effects : Dry mouth (most common), constipation, blurred vision (accommodation abnormalities), urinary retention, urinary tract infectious disease.

Pregnancy : Category C.

Note : 1. Should be taken with liquids and swallowed whole.

2. Dose adjustment: with concomitant CYP3A4 inhibitors.

4. Agent For Impotence

Sildenafil Citrate

Supply ; VEDAFIL® 威達挺 100 mg/Tab (OSILDE)

VIAGRA® 威而鋼 100 mg/Tab (OVIAGR1)

Indications : Erectile dysfunction. (成年男性勃起功能障礙。)

Usual dose : 50 mg taken as needed, 1 hour before sexual activity, may be increased to 100 mg or decreased to 25 mg. The maximum recommended dosing frequency is once per day.

Side effects : Headache, flushing, dyspepsia, nasal congestion

Pregnancy : Category B.

Note : Its administration to patients who are concurrently using organic

nitrates in any form is contraindicated, sildenafil was shown to potentiate the hypotensive effects of nitrates.

Tadalafil

Supply : Cialis® 犀利士 20 mg/Tab (OCIALIS)

Indications : Erectile dysfunction

Usual dose : 10-20 mg taken as needed, 30 min to 12 hour before sexual activity. The maximum recommended dosing frequency is once per day.

5. Agents For Benign Prostatic Hyperplasia

Alfuzosin

Supply : Lafuzo XL® 列優治持續藥效錠 10mg/Tab (OLAFU00)

Indications : Treatment of the functional symptoms of benign prostatic hyperplasia. (良性前列腺肥大。)

Usual dose : Adults: 10 mg once daily immediately after a meal; should be taken at the same time each day.

Side effects : Faintness, vertigo, dizziness or malaise, headache, orthostatic hypotension, syncope, tachycardia, palpitations, chest pain, rash, pruritus, constipation, dyspepsia, nausea, impotence.

Pregnancy : Category B.

Note : Tablet should be swallowed whole; do not crush or chew.

Doxazosin see page 42

Dutasteride

Supply : Avodart® 適尿通 0.5mg/Cap (OAVOD00)

Indications : Benign prostatic hyperplasia(BPH) in men with an enlarged prostate. (治療具有症狀之攝護腺肥大症。而有緩解相關症狀，降低急性尿滯留之發生率，減少攝護腺肥大症相關手術必要性之效果。)

Usual dose : 0.5mg taken orally once a day.

Side effects : Serum testosterone increased, thyroid-stimulating hormone increased, impotence, decreased libido, ejaculation disorder, breast tenderness and breast enlargement.

Pregnancy : Category X.

Note : 1. 須整粒吞服。

2. 懷孕婦女或可能懷孕婦女不可以接觸此膠囊，特別是有裂損的膠囊；因Dutasteride 可經由皮膚吸收，可能造成胎兒異常。

Finasteride see page 81

Tamsulosin

Supply : Harnalidge® 活路利淨 0.4mg/Tab (OTAMS00)

Indications : Benign prostatic hyperplasia. (前列腺肥大症(增生)所伴隨的排尿障礙。)

Usual dose : 0.2 mg qd may be increased to 0.4 mg qd.

Side effects : Abnormal ejaculation, dizziness, headache, nausea, diarrhea, rhinitis, slight reductions in hemoglobin.

Pregnancy : Category B.

Note : Swallow the tablet whole.

6. Miscellaneous

Dapoxetine

Supply : Priligy® 必利勁 30mg/Tab (ODAPOXE)

Indications : Treatment of premature ejaculation (PE) in adult males 18 to 64 years of age. (治療年齡 18-64 歲的早發性射精男性)

Usual dose : Males: Oral: Initial: 30 mg 1 to 3 hours prior to sexual activity as needed; may increase to a maximum single dose of 60 mg if inadequate response, but only if initial dose is well-tolerated (eg lack of severe adverse effects or symptoms suggestive of syncope). Maximum: 60 mg per 24 hours. Administer with a glass of water, with or without food; tablet should be swallowed whole to avoid bitter taste. Avoid grapefruit juice and ethanol during therapy.

Side effects : Nausea (11.0%), dizziness (5.8%), headache (5.6%), diarrhoea (3.5%), insomnia(2.1%) and fatigue (2.0%).

Pregnancy : Priligy is not indicated for use by women.

Note : 避免吃葡萄柚或柚子。

Mirabegron

Supply : Betmiga® 貝坦利持續性藥效錠 50mg/Tab (OMIRAB)

Indications : Treatment of overactive bladder (OAB) with symptoms of urge urinary incontinence, urgency, and urinary frequency. (治療伴有急尿、頻尿和/或急迫性尿失禁症狀的膀胱過動症。)

Usual dose : Oral: Initial: 25 mg once daily; efficacy is observed within 8 weeks for 25 mg dose. May increase to 50 mg once daily based on individual patient efficacy and tolerability.

Renal impairment :	Ccr (ml/min)	Dosage regimen
	15-29	Max. 25mg/day
	<15	Not recommended

Side effects : Hypertension (9% to 11%), nasopharyngitis, urinary tract infection and headache.

Pregnancy : Category C.

Note : Swallow the tablet whole with water; do not chew, divide, or crush.

XIV. Topical Preparations

1. Ophthalmic Preparations

(1) Corticosteroids

Fluorometholone

Supply : Foxone® 好視多眼用懸浮液 0.1% 10ml/BT (EFOX1)
Foxone® 好視多眼用懸浮液 0.02% 10ml/BT (EFOX02)

Indications : Inflammatory conditions of the eye, including keratitis, iritis, cyclitis, conjunctivitis. (眼瞼炎、結膜炎、角膜炎、強膜炎、上強膜炎、虹彩炎、虹彩毛樣體炎。)

Usual dose : 1-2 drops 2-4 times daily.

Side effects : Burning sensation in eye, Cataract, Eye irritation, Impaired wound healing, Raised intraocular pressure; Infectious disease.

Pregnancy : Category C.

Sencort® 賜眼康 (ESENCOR)

Supply : Oph. Solution 6 ml/BT, per ml contains
Betamethasone Disodium Phosphate ----- 1 mg
Neomycin (as Sulfate)-----3.5 mg(Potency)

Indications : Inflammatory eye disorders. (眼瞼結膜疾患、角膜疾患、鞏膜疾患、脈絡膜疾患。)

Usual dose : 1-2 drops 1-4 times daily.

(2) Anti-infectives Agents

Gentamicin

Supply : Gentamycin® Eye Ointment 紫菌素眼用軟膏 0.3% 5 g/Tube (EGENT5)

Indications : Bacterial eye infections. (結膜炎、角膜潰瘍、角膜炎、眼瞼炎、鞏膜炎、淚囊炎。)

Usual dose : 2-3 times daily.

Side effects : Transient eye irritation.

Pregnancy : Category D.

Sulfamethoxazole (Sulfisomezole)

Supply : Kingmin® 景明眼藥水 40mg/ml 10 ml/BT (ESULFA)

Indications : Bacterial conjunctivitis. (結膜炎、流行性角膜炎、眼瞼炎、眼瞼緣炎、砂眼、淚腺炎。)

Usual dose : 2 drops several times daily.

Side effects : Local irritation, periorbital edema, burning, transient stinging.

Pregnancy : Category C.

2. ENT Preparations

(1) Ear drops

Mycomb® 美康耳用滴劑 (EMYCOMB)

Supply : Otic Drops, 5 ml/BT, each ml contains

Triamcinolone Acetonide-----	1 mg
Neomycin Sulfate-----	2.5 mg
Gramicidin-----	0.25 mg
Nystatin-----	100,000 units
Chloroxylenol-----	3 mg

Indications : Otitis external, cutaneous candidiasis. (外耳道念珠菌感染、表面細菌感染、異位性皮膚炎、濕疹性皮膚炎、過敏接觸性皮膚炎、原發刺激性接觸皮膚炎、皮脂溢出性皮膚炎、溢出性皮膚炎、神經性皮膚炎。)

Usual dose : 2-3 drops 3-4 times daily.

Side effects : For nystatin the adverse effects include skin irritation, and cutaneous reactions. The adverse effect of topical use neomycin is contact dermatitis.

Ofloxacin

Supply : Tarivid® 泰利必妥點耳液 3 mg/ml 5 ml/BT (ETARIVI)

Indications : Otitis external, acute otitis media, chronic suppurative of otitis media with perforated tympanic membranes. (成人及小兒外耳炎、成人及青少年鼓膜穿孔之慢性中耳炎、裝有鼓膜造口管的小兒急性中耳炎。)

Usual dose : Adults: otitis externa 5 to 10 drops twice a day for 10 days (patients 12 years and older); Children: otitis externa; 5 drops twice a day for 10 days (1 to 12 years of age).

Side effects : Hypersensitivity, ear pain, replacement the rehabilitated external normal flora

Pregnancy : Category C.

(2) Nasal Preparations

Budisonide

Supply : Pulmicort® Nasal Spray 能舒鼻 64mcg/dose 120 dose/BT (EPULMIN)

Indications : 季節性及經年性鼻炎、血管性鼻炎及治療鼻息肉的相關症狀。

Usual dose : Adult or children ≥ 6 y/o: 2 spray per nostril in the morning or 1 spray per nostril bid.

Side effects : Nasal irritation, facial edema, rash, pruritus, nausea.

Pregnancy : Category C.

Fluticasone propionate

Supply : Avamys® 艾敏釋 Nasal Spray 27.5mcg/dose 120 dose/BT (EAVAMY)

Indications : Seasonal and perennial allergic or nonallergic rhinitis. (治療 2 歲以上的兒童、青少年與成人的過敏性鼻炎。)

Usual dose : 2 sprays (27.5 mcg/spray) in each nostril once daily (110 mcg/day). Total daily dosage should not exceed 2 sprays in each nostril (110 mcg)/day.

Side effects : Headache, pharyngitis, nasal congestion, cough, pharyngolaryngeal pain

Pregnancy : Category C.

3. Mouth and Throat Products

(1) Corticosteroids

Triamcinolone

Supply : Nincort® oral gel 寧康口內膠 1mg/g 6g/Tube (ECARBO)

Indications : 齒肉、口腔粘膜、舌、潰瘍性口內炎、口角炎等急慢性炎症之治療、齒槽膿漏、假牙刺激部疾患

Usual dose : 1-3 times daily.

(2) Nonsteroidal Anti-inflammatory Agents

Benzydamine

Supply : Comfflam® Spray 康護寧 3mg/ml 30ml/Bot (ECOMFFL)

Indications : For the temporary relief of painful conditions of the mouth and throat. (舒解口腔及咽喉疼痛，包括下列疾病或症狀引起的疼痛：扁桃腺炎、喉嚨痛、放射治療引起的黏膜炎、鵝口瘡潰瘍、口腔與牙周手術後疼痛。)

Usual dose : Adults and Children >12 years: 2-4 sprays (1-2 mg) directly onto the sore/inflamed area and swallow gently. Repeat every 1.5-3 hrs as necessary.

Side effects : The most commonly reported reaction is oral numbness (2.6%), occasional burning or stinging sensation may occur (1.4%), dryness or thirst(0.2%), tingling(0.2%), warm feeling in mouth and altered sense of taste(0.1%).

4. Dermatological Agents

(1) Acne Products

Adapalene

Supply : Adapalene® Gel 欣婷凝膠 0.1% 15 g/Tube (EADAPAL)

Indications : Acne vulgaris. (治療尋常性痤瘡。)

Usual dose : Once a day after washing in the evening before retiring. A thin film should be applied, avoiding the eyes, lips, and mucous membranes.

Side effects : Erythema, scaling, dryness, pruritus, burning

Pregnancy : Category C.

Note: Safety and efficacy have not been established in children less than 12 years of age.

(2) Burn Preparations

Silver Sulfadiazine

Supply : Sulfasil® Cream 灼膚星 1% 50g/Tube (ESILVE)

Indications : Treatment of infection in severe burns. (治療或預防燒、燙傷引起之感染症。)

Usual dose : The burn wounds are cleaned and debrided and silver sulfadiazine is applied to a thickness of 3 to 5 mm with a sterile gloved hand, once to twice daily.

Side effects : Skin necrosis, erythema multiforme, skin discoloration.

Pregnancy : Category B.

(3) Topical Anti-infectives

(a) Antiviral Agents

Acyclovir

Supply : Aclovir® Cream 艾剋樂芙乳膏 5% 5g/Tube (EZOVIRA)

Indications : Cutaneous herpes simplex infections. (單純疱疹引起之皮膚感染。)

Usual dose : Apply every 4 hrs 5 times daily for 1 week.

Side effects : Mild pain with transient burning, stinging, pruritus, rash.

Pregnancy : Category B.

(b) Antibiotics

Bacitran Neomycin Ointment 利膚 (ENEOM15)

Supply : 15g/Tube, each g contains

Neomycin Sulfate -----3.5 mg

Bacitracin Zinc-----500 U

Indications : Treatment of skin infections. (急救、預防及緩解皮膚刀傷、刮傷、燙傷之感染。)

Usual dose : 2-4 times daily.

Side effects : Irritation, ototoxicity and nephrotoxicity.

B.C.G® cream 美西吉乳膏 (EBCG)

Supply : 10g/Tube, each g contains

Gentamicin Sulfate -----1 mg

Clotrimazole-----10mg

Betamethasone dipropionate-----0.5 mg

Indications : 治療敏感性皮膚病和細菌或黴菌所引起之皮膚感染症。

Usual dose : 2 times daily.

Betaderm Cream 貝他健乳膏 (EBETAD)

Supply : 10g/Tube, each g contains

Gentamicin -----1mg

Betamethasone-----1mg

Indications : 濕疹或皮膚炎、急救、預防及減緩皮膚刀傷、刮傷、燙傷之感染。

Usual dose : 2 times daily.

Gentamicin

Supply : Gentamycin® cream 紫菌素乳膏 1mg/g 15g/Tube (EGENT15)

Indications : Treatment of infected bacterial dermatitis. (發膿性皮膚病、感染性濕疹、皮膚炎、灼傷及其他革蘭氏陰性陽性菌之感染。)

Usual dose : 3-4 times daily.

Pregnancy : Category D.

Mycomb® cream 美康 (EKENACM)

Supply : 16g/Tube, each g contains

Neomycin Sulfate -----2.5 mg

Nystatin-----100000

U

Triamcinolone acetonide-----1 mg

Gramicidin-----0.25mg

Indications : 濕疹、過敏性和發炎性皮膚病、續發性細菌或黴菌感染 (念珠菌感染)。

Usual dose : 2-3 times daily.

(c) Antifungal Agents

B.C.G® cream see page 137

Clotrimazole

Supply : Mycosten® cream 黴克頓乳膏 10mg/g 10g/Tube (EGENT15)

Indications : 治療皮膚表淺性黴菌感染、如：足癬（香港腳）、股癬、汗斑。

Usual dose : Topical use 2 times daily.

Side effects : Local irritation and contact dermatitis may occur with topical administration of clotrimazole.

Econalone® cream 欲克黴乳膏 (ECONAL)

Supply : 10g/Tube, each g contains

Econazole nitrate -----10 mg

Triamcinolone acetonide-----1 mg

Indications : 皮膚因真菌群、酵母菌群、霉菌群所引起之皮膚病。

Usual dose : 2 times daily.

(4) Scabicides、Pediculicides

Crotamiton

Supply : Ulex® Lotion 悠力素洗劑 10% 30ml/BT (EULEXLO)

Indications : Scabies, pruritus. (溼疹、神經性皮膚炎、蕁麻疹、蚊蟲咬螫、皮膚搔癢症、疥瘡及其他寄生性皮膚感染。)

Usual dose : Several times daily.

Side effects : Dermatitis, skin irritation.

Pregnancy : Category C.

Gamma Benzene Hexachloride

Supply : Scabi® Cream 息疥軟膏 1% 10 g/Tube (ESCALPH)

Indications : Scabies. (疥瘡、陰蝨、頭蝨及其蟲卵之感染。)

Usual dose : Apply a thin layer to dry skin and rub in thoroughly. Leave on 8-12 hrs, remove by thorough washing.

Side effects : Irritation.

Pregnancy : Category B.

(5) Corticosteroids

B.C.G® cream see page 137

Betaderm Cream see page 137

Betamethasone

Supply : Rinderon-V® Cream 臨得隆 0.06% 5g/Tube (ERINDE)

Indications : Treatment of steroids-responsive dermatitis, psoriasis, eczema, lichen planus. (濕疹或皮膚炎。)

Usual dose : 1-2 times daily.

Side effects : Itching, erythema, burning, dryness, irritation.

Pregnancy : Category C.

Clobetasol Propionate

Supply : Clobetasol® Cream 可立舒 0.05% 7g/Tube (EDERMO)

Indications : Treatment of steroids-responsive dermatitis, psoriasis, eczema, lichen planus. (牛皮癬、扁平苔癬、盤狀紅斑性狼瘡。)

Usual dose : 1-2 times daily.

Side effects : Itching, erythema, burning, dryness, irritation.

Pregnancy : Category C.

Desoximetasone

Supply : Esperson® Ointment 拭皮爽軟膏 0.25% 5g/Tube (ESPER)

Indications : 溼疹、牛皮癬、燒傷、曬斑、昆蟲咬傷等皮膚感染症。

Usual dose : Topical use, 1-2 times daily.

Econalone® cream see page 138

Mometasone

Supply : Elomet® Cream 皚膚美得 0.1% 5 g/Tube (EELOMET)

Indications : Treatment of steroids-responsive dermatitis. (對類固醇具有感受性之皮膚病所引起之炎性反應及搔癢之緩解。)

Usual dose : Topical use, once daily.

Side effects : Dermal atrophy, burning, itching, stinging.

Pregnancy : Category C.

Mycomb® cream see page 137

(6) Local Anesthetics

Lidocaine

Supply : Lidopat® patch 遠疼貼貼片 5% 700mg/Patch (ELIDO)

Indications : 用於緩解皰疹後神經痛(Post-herpetic Neuralgia)。使用部位僅限於未受損的皮膚。

Usual dose : 1 patch for 12 hours, Max. 3 patches every 24 hours.

Side effects : Erythema, edema, bruising, papules, vesicles.

Lidocaine

Supply : Xylocaine® Jelly 利度凝膠 2% 30 g/Tube (ELIDOJ)

Indications : Local anesthetics. (表面麻醉。)

Usual dose : Topical use on mucous membrane, skin - dosage varies and depends upon the area to be anesthetized.

Side effects : Hypersensitivity, urethritis, burning, stinging.

Pregnancy : Category B.

(7) Nonsteroidal Anti-inflammatory Agents

Diclofenac

Supply : Painstop® 痛寧凝膠 1% 20g/Tube (EPAIN2)

Indications : Musculoskeletal pain, rheumatic pain

Usual dose : 3-4 times daily.

Side effects : Itching, stinging, rash.

Flurbiprofen

Supply : Flur Di Fen® Patch 富帝芬貼片 40 mg/10x14cm/Patch (EFLU)

Indications : 變形性關節症、扁關節周圍炎、肌腱韌鞘炎、腱周圍炎、上腕骨上髁炎、筋肉痛、外傷之腫脹疼痛等上述疾患及症狀之鎮痛消炎。

Usual dose : 2 times daily.

Side effects : Pruritus, erythema, itching.

(8) Hemorrhoid Agents

Ebodyl® suppositories 雅伯痔栓劑 (EBODYL)

Supply : Each supp contains

Cinchocaine hydrochloride-----2.5mg

Polycresolsulfonate (policresulen)-----100mg

Indications : 痔瘡及肛門直腸裂隙和破裂所引起之疼痛、出血、搔癢及發炎。

Usual dose : 1 Supp bid-tid.

Xylmol® ointment 喜癢痔軟膏 (EXYLMOL)

Supply : 15g/Tube, each g contains

Lidocaine-----50 mg

Hydrocortisone acetate -----2.75 mg

Aluminum acetate-----35mg

Zinc oxide-----180mg

Indications : 痔瘡、肛門搔癢、直腸炎、肛門周圍膿腫及脫肛、肛門裂傷。

Usual dose : Twice daily, morning and evening.

(9) Miscellaneous

A.D.E.® Cream 愛麗霜乳膏 (EADE3)

Supply : 30g/Tube, each g contains

Retinol Palmitate (Vitamin A)-----2000IU

Cholecalciferol (Vitamin D3)-----12.5mcg

dl- α -Tocopherol Acetate (Vitamin E)-----2mg

Indications : 皮膚粘膜乾燥症、皮膚角化症、皮膚炎、濕疹、尋常性痤瘡、
外傷及火傷之肉芽新生促進。

Usual dose : Topical use several times.

Cadexomer Iodine

Supply : Iodosorb® 愛得寶 0.9% Powder 3 g/Pack (EIODOSO)

Indications : 慢性靜脈潰瘍之輔助治療，感染性傷口之輔助治療。

Usual dose : Apply to the whole of the ulcer surface to a depth of not less
than 3mm.

Side effects : A transient smarting sensation, mild erythema.

Pregnancy : The use of Iodosorb® should be avoided in pregnant.

Doxepin HCl

Supply : Ichderm® Cream 普膚 5% 15 gm/Tube (EICHDER)

Indications : Moderate to severe atopic dermatitis with pruritus. (成人濕疹
性皮膚炎 (如異位性皮膚炎或單純性慢性苔癬) 所致中度搔癢症之短期
治療。)

Usual dose : Local use, 4 times daily.

Side effects : Local stinging, burning.

Pregnancy : Category B.

Heparinoid Cividoid® Gel 喜美凝膠 (ECIVIDO)

Supply : 20 g/Tube, each g contains

Heparinoid Natural-----3 mg

Propylene glycol-----40 mg

Alcohol 95%-----120 mg

Chloroxyleneol-----8 mg

Sodium EDTA-----0.25 mg

Indications : 鈍物創傷後之血腫，淺層性靜脈炎之局部治療。

Usual dose : Inhibit inflammation – 3-4 times daily.

Sinbaby® lotion 金貝比 (ECALAMI)

Supply : Lotion 120 g/BT, each g contains

Zinc Oxide-----	100 mg
Diphenhydramine-----	5 mg
Dibucaine Hydrochloride-----	1.5 mg
dl-Camphor-----	1.5 mg
Benzalkonium Chloride-----	2.5 mg
Silicone oil-----	10 mg

Indications : Pruritus

Usual dose : 2-3 times daily.

XV. Miscellaneous Products

Broen-C® 撲炎喜 (OBROENC)

Supply : each Tab contains

Bromelain-----20000U

L-Cysteine -----20mg

Indications : Adjunct in the treatment of inflammatory & edema associated with trauma or surgery. (手術後及外傷後腫脹之緩解、副鼻腔炎、乳房鬱積、呼吸器疾患伴隨喀痰喀出困難、氣管內麻醉後之喀痰喀出困難、痔核。)

Usual dose : Initially 2 Tab qid; maintenance dose: 1 Tab qid.

Side effects : Bronchial asthma, erythema and pruritus, increase in heart rate, palpitations, stomach ache, diarrhea.

Note : 應整粒吞服，不可咬碎。

Ginkgoflavon Glycoside

Supply : Senin® 舒寧 40 mg/Tab (OSENIN)

Indications : Cerebrovascular insufficiency, peripheral circulation disorder, disturbance in skin circulation and skin ulcers. (末梢血行障礙。)

Usual dose : 1 Tab tid-qid.

Side effects : Adverse effects include headaches, dizziness, palpitations, gastrointestinal disturbances, and skin hypersensitivity reactions.

Glucosamine sulphate

Supply : Metril® 美骨康 250mg/Cap (OMETRI)

Indications : Osteoarthritis. (緩解退化性關節炎之疼痛。)

Usual dose : PO 500 mg bid.

Side effects : Peripheral edema, tachyarrhythmia, constipation, diarrhea, dyspepsia, nausea, vomiting, headache, insomnia, somnolence
Peripheral edema, tachyarrhythmia, constipation, diarrhea, dyspepsia, nausea, vomiting, headache, insomnia, somnolence.

Pentosan

Supply : Urosan® 優而順 100mg/Cap (OPENTOS)

Indications : Relief of bladder pain or discomfort associated with interstitial cystitis. (使用於因間質性膀胱炎引起的膀胱疼痛或不適的解除。)

Usual dose : 100 mg orally three times a day.

Side effects : Alopecia, diarrhea, nausea, abdominal pain, headache, liver function abnormalities, dizziness.

Pregnancy: Category B.

Note : The capsules should be taken with water at least 1 hour before meals or 2 hrs after meals.

Varenicline

Supply : Champix® 戒必適 1mg/Tab (OCHAMP)

Indications : As an aid to smoking cessation treatment. (戒菸輔助劑。)

Usual dose : Initial, 0.5 mg ORALLY once daily for days 1 through 3, then 0.5 mg twice daily for days 4 through 7, then 1 mg twice daily; duration of treatment is 12 weeks. Varenicline should be taken after eating, with a full glass of water.

Side effects : Neutropenia (most common), thrombocytopenia, anemia, headache, insomnia, abdominal pain, diarrhea, nausea, vomiting.

Pregency: Category C.

XVI.Appendix

1. 新進藥品管理辦法

106年6月29日訂定

一、目的:

為確保本院病人使用安全有效之藥品，期能妥善管理藥品使用狀況，避免藥事資源浪費。

二、定義:

凡具有衛生福利部藥品許可證之藥品，並符合下列任一項規範：

1. 與本院現有藥品之成分、含量、劑型不同。
2. 臨床治療效果優於現有藥物，或低於現有藥品之不良反應，且具有文獻資料佐證。

三、申請辦法:

1. 申請人:限本院主治醫師，每位每次限提出一種藥品。
2. 申請時間:每年一月及七月十六日至三十一日。
3. 申請費用:每案需繳交新藥申請審查費兩萬元至櫃檯，收據證明於送件時轉交藥劑科。本院收件後即開始新藥審查作業，若廠商或醫師撤回申請案，或因繳交文件不齊全，致無法完成審核，均不予退費，敬請審慎考慮。
4. 檢附資料(三份):
 - (1) 新進藥品申請表(粗體字部份需醫師親自填寫)。
 - (2) 健保核准之給付證明與代碼、自費價參考。
 - (3) 藥品包裝規格(劑量、每盒包裝量、每箱包裝數)。
 - (4) 藥品許可證，或該藥產地(國)之相關衛生主管機關證明文件。
 - (5) 國內兩家醫學中心採購證明。
 - (6) 該藥品 Micromedex 相關資料、BA/BE 試驗證明報告及通過 BA/BE 試驗批次藥品品質相關資料等。

四、申請程序:

1. 送件:由申請醫師或藥廠代表，依規定時間將檢附資料送交藥劑科，逾時視同放棄本次申請案。
2. 藥劑科初審:新藥申請檢視，每年二月及八月完成。
3. 藥事委員會審核:符合初審之新藥案，於每年三月及九月提交藥事委

員會審核。申請醫師未出席或未委託代理列席說明時，視同棄權該次申請案。

五、管理規定：

1. 藥事委員會決議

- (1) 不同意案：一年內不得再提出相同藥品類似物交付討論。
- (2) 同意案：自院內公告日算起，移請採購室通知廠商，兩星期內完成議價。由藥劑科完成建檔、公告、上架作業。未完成議價者視同放棄本次申請，一年內並不得再提出相同藥品申請。

2. 近半年無或少於3次使用紀錄之院內藥品，提報藥事委員會決議刪除。

六、藥品進用後評估：

1. 每半年列表追蹤新進藥品使用狀況。
2. 藥事委員會決議刪除或廠商供貨不良之藥品，一年內不得再提出申請。

七、其他：

凡衛生主管機關要求藥品下架回收，或藥廠延遲、缺貨等緊急狀況...等無法正常提供供貨，且院內無類似成分時，由藥劑科提供兩~三家廠商，請採購部門詢價後，會簽主任委員，經院長同意後擇一按臨時採購藥品規範辦理。

八、附則：

本辦法呈 總院長核准後公告實施，修正時亦同。

2. 非常備用藥臨時採購辦法

106 年 6 月 29 日訂定

一、申請原則：

臨採藥品係以醫療緊急或特殊疾病需要時才提出申請，如醫院有療效類似藥品時，請使用院內常備用藥。

二、申請人：限本院專任醫師。

三、申請數量：

1. 緊急醫療：申請數量以單一病人、單一療程為原則。
2. 特殊病情或特定對象：申請數量先以 1 個月之用量作為採購之依據（如 Vaccine.....等）。
3. 申請數量應適當，如申請數量或次數過多者，請依本院新藥申請辦法提出新藥申請。

四、臨時採購之程序：

1. 至藥劑科領取「非常備用藥臨時採購申請表」。
2. 申請醫師需填寫完整之申請表，並經醫療副院長同意。
3. 以院內卷宗送藥劑科評估院內是否有同類藥，是否符合臨採藥申請原則：
 - (1) 不符合臨採藥申請原則者，將申請單退回申請單位。
 - (2) 符合臨採藥申請原則者，將申請單送藥委會主任委員核示。
4. 核准後送採購組進行採購作業。
5. 一般件用白色卷宗，急件用紅色卷宗。

五、臨時採購藥之管理：

1. 採購組作業完成後，將申請單影本送藥劑科。
2. 藥品買進藥庫驗收後，由藥劑科建醫令檔，並通知申請醫師。
3. 電腦備註欄可出現〔臨採〕字樣，以提醒醫師及藥師注意。
4. 存量與使用限制依申請醫師之需求加以控管。
5. 藥委會於下次會議時提出追認；如臨時採購案件過多或未依程序提出申請者，應於藥委會中提出檢討。
6. 每次採購以單一個案月用量，或最小包裝量為度。請申請醫師斟酌使用，如 6 個月內未使用完或遭健保核刪，則由該醫師負責至少藥品成本之 50%。

3. 病房常用藥品儲存方式

藥品	開封前	開封後	
		儲存期限	儲存條件
Albuminar-20® (Albumin) 50 ml/BT	20-25°C ¹	開瓶後 4 小時內用完 ²	
Hepac® (Heparin) 25000U/5ml/Vial	< 25°C ¹	原液 14 天	25°C 以下 ³
		稀釋液 7 天	2-8°C ³
Humulin N®、 Humulin R®、 Humulin 70/30® 10 ml/Vial	2-8°C ¹	一旦使用可最多至 28 天, 超過這個期間 不能使用 ¹	室溫 (<30°C) ¹
Tetanus Toxoid Alum. (PPT) 1ml/Vial	2-8°C ¹	經插入注射針吸取後 應當日使用完畢, 當 日未用完者應丟棄	2-8°C ¹
Lidocaine 2% 20 ml/Vial	25°C ¹	28 天 ⁴	25°C ¹
Xylocaine® Jelly 2% 30 g/Tube	25°C ¹	無污染或變質, 開封後 1 個月	25°C ¹
Genso® (Atracurium) 25mg/2.5ml/Amp	2-8°C ¹	開封後如未用完應丟棄 ¹	
Triamcinolone® 10ml/Vial	25°C ¹	建議 7 日內使用完畢 (過期應廢棄)。多次 使用前須再確認產 品之無菌維持。無菌 性及無污染性之多 次抽取使用後之保 存, 須由使用端之正 確的使用方式及良 好保存條件。建議每 次抽取前須充分搖 晃混合均勻。本懸浮 注射劑不可經脈注 射。 ³	2-8°C ³

藥品	開封前	開封後	
		儲存期限	儲存條件
Nitrostat® 25 Tabs/Bot	20-25°C ¹	開封後六個月 ²	藥品需貯存於原有的玻璃容器中，使用後立即將瓶蓋拴緊，並存放在乾燥陰涼處 ¹
Lactul® (Lactulose) 60ml/BT	25°C ¹	開封後 1 個月 ²	25°C ¹
Zithromax® (Azithromycin) 15ml/BT	<30°C ¹	泡製後在室溫下可保持穩定 10 天 ¹	
Curam® Suspension 60ml/Bot	<30°C ¹	泡製後需冷藏 (2-8°C)並於 7 天內用完 ¹	

參考資料來源：

1. 藥品仿單
2. 臺中榮總藥品手冊查詢系統
3. 廠商資料
4. Centers for Disease Control and Prevention: If a multi-dose has been opened or accessed (e.g., needle-punctured) the vial should be dated and discarded within 28 days unless the manufacturer specifies a different (shorter or longer) date for that opened vial.

4. 急救車藥品給藥注意事項

藥品/含量	稀釋液	給藥速率/注意事項
Amiodarone Cordarone® 臟得樂 150 mg/ 3 ml /amp	僅 D5W	IVB : 1 amp + D5W 100ml over 10 min IVF : 6 amp + D5W 500ml (1.8mg/ml) 【開始 1mg/min(34ml/hr)輸注 6 小時後，再以 0.5mg/min(17ml/hr)輸注 18 小時】 *初次靜脈注射後，15 分鐘內不可重複靜脈注射 *靜脈注射針筒內切勿混合其他藥劑 *建議由大血管注射
Atropine 1 mg/ml/amp	Undiluted	不建議 IVD 或加入其他點滴液一起輸注 1)心搏徐緩 0.5 mg IV，可每 3-5 分鐘注射一次。 *最高累積劑量 0.04mg/kg 或 3 mg 2)有機磷中毒 1-2 mg 或以上視需要注射
Adenosine Adenocor®安室律 6 mg/2ml/vial	NS	Rapid IVP over 2sec 6 mg rapid IVP,再以 20 mL NS 沖洗; 1-2 分反應不佳追加 12 mg; 1-2 分鐘後仍不佳，再追加 12 mg (6 mg→12 mg→12 mg)，自中央靜脈注射劑量減半(起始劑量 3 mg) *可由 IV bolus or IV line 注射入體內。經由 IV line 需由近端注射，再以 NS 快速沖洗。 *不可冷藏，剩餘藥品如非立即使用，應予丟棄。
CALCIUM 2% Glucose 10% Vitacal®/美達加祿 20ml/amp	NS、D5W、LR	給藥速率：1.5-5 ml/min (不可超過 200mg/min) 本劑含 CaCl ₂ 20mg/ml， Ca ²⁺ : 5.44 mEq/20ml/amp *不建議 IM 或 SC，因可能發生組織壞死
Diazepam Dianlin®/得安寧 10 mg/2ml/amp	NS、D5W、LR	*建議以原液由大血管給藥 *不建議使用 PVC 材質之容器或輸注管 *不可與其他溶液、靜脈輸液或藥品混合或稀釋，因可能產生沉澱。 *注射速度不宜 >5mg/min，因注射過快會導致窒息、血壓過低、心跳過快或停止。

Dopamine Dopamine®/得保命 200 mg/ 5 ml/amp	NS、D5W、 D10W、 LR	2-20 µg/kg/min IVF (1-5 µg/kg/min 作用多巴胺受體↑腎血流；6-10 µg/kg/min 作用β受體↑心輸出；>10 µg/kg/min 作用α受體，使動脈收縮，↑血壓) *建議由大血管注射 *不可使用鹼性溶液稀釋
Epinephrine 1mg/ml/amp Adrenalin®安得理那寧	NS、D5W、 LR	給藥速率：IV：100 mcg/ml，IVD：4 mcg/ml Anaphylactic shock：SC(preferred) or IM 0.5mg，視需要再每 5-15 分鐘緩慢靜脈注射 25-50 mcg。作心臟注射或靜脈注射前應將此注射劑 0.5ml 用 NaCl 注射液稀釋至 10 ml
Magnesium Sulfate 10% MgSO ₄ ®硫酸鎂 20 ml/amp	NS、D5W、 LR	給藥速率：<150 mg/min (本劑含 MgSO ₄ 100mg/ml，Mg：16.23 mEq/20ml/amp) TdP 或低血鎂引起之心跳停止 1-2 gm/10 ml D5W IV 5-20 分鐘
Midazolam Dormicum®/導眠靜 5mg/5ml/amp	NS、 D5W、 D10W、 LR	Conscious Sedation： Loading Dose：間歇注射給予 1-2.5 mg，注射時間 20-30 秒，間隔 2 分鐘 Maintenance：0.03-0.2 mg/kg/hr *血容積過少、血管收縮及體溫過低之病人，可降至一般劑量的 25% *不可與鹼性溶液混合
Norepinephrine Norepine®/心復壓 4 mg/4 ml/amp	D5W、D5S	ACLS dosing：Initial：0.1-0.5 mcg/kg/min，titrate to desired response *不建議使用 NS 為稀釋液避免藥品氧化 *顏色變深或變粉紅勿用 *避免與鐵鹽、鹼性及具氧化性物質接觸 *建議由大血管注射 *避光儲存
Sod. Bicarbonate 7% NaHCO ₃ ®/碳酸氫鈉 16.67 mEq/20ml/amp	NS、D5W	Hyperkalemia-induced Cardiac Arrest ：Adult：IV，Initial：1 mEq/kg/dose，動脈血氣分析(Arterial blood gases)為再次給藥之依據 Metabolic Acidosis ：HCO ₃ ⁻ (mEq)= [1/2 體重 x (24 - serum HCO ₃ ⁻ (mEq/L))]或 2-5 mEq/kg IV infusion >4-8 hr

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