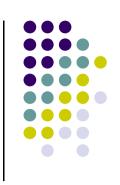


Micromedex在加護病房藥師工作與教學之應用

姚淑惠 資深藥師 中國醫藥大學附設醫院 藥劑部 2012 07 12 11:20~12:10

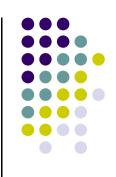
Outline



- 教學目標
- 1.讓學員學會如何從 micromedex找到實用資 料
- 2.讓學員學會如何引導藥學生查詢micromedex與應用藥物資訊

- 綱要說明
- 1.以Micromedex為首選 參考資料庫的優點
- 2.查Micromedex對加護 病房藥師的方便性與 參考價值以外科與兒 科為例
- 3.如何以臨床問題引導 學生查資料及給予教 學回饋

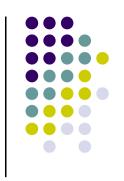
1.



以Micromedex為 首選參考資料庫的優點

快速與方便

藥物資料庫



- 一級資料庫
 - Trial report (original paper)
- 二級資料庫
 - MicroMedex
 - Medline, PubMed
 - UptoDate
- 三級資料庫
 - Textbook

- 時效性
 - 一(新)>二>三(舊)
- 完整性
 - 三>ニ>ー(少)
- 依據問題選擇最適合的資料庫

藥物資料庫之分級及各級特性



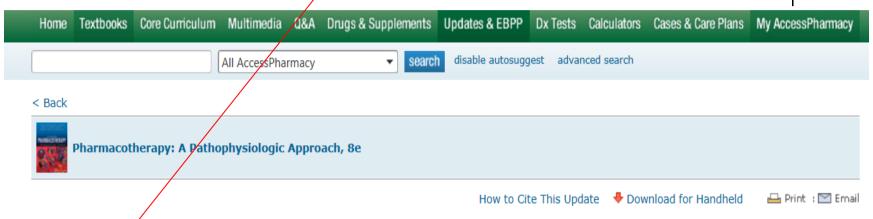
分級	三級資料庫	二級資料庫	一級資料庫
	Tertiary Resources	Secondary Resources	Primary Resources
內容	教科書	提供一級文獻的目錄或摘要	研究報告
	回顧性文章(review articles)	Medline	controlled trials
	網路上或資料庫的一般性資料	Up to date	cohort studies
		MicroMedex	case series or reports
優點	大部份的資料都找得到 對題材提供簡要及全面的介紹 使用便利、容易、較為人熟悉	可協助快速尋找所需的一級文獻	資料最新 說明深入 可親自評估研究的可用性
缺點	1. 資料不夠新 2. 資料不夠深入完整,原因包括 編幅受限 作者搜尋的資料不全 3. 資料錯誤,包括 轉錄或翻譯錯誤 作者偏見或專業性不足	 要學會使用適當的關鍵字及搜尋方式 不同二級資源的使用方式會有所不同 	 需要有評估一級文獻之能力 單一研究的結果不夠全面, 要閱讀及評估大量文獻則 需花不少時間

時效性:1(新)>2>3(舊) 完整性:3>2>1(少)



Update有時候也很快!





Update

7/5/2012: CRIZOTINIB: A NEW THERAPEUTIC OPTION FOR SELECT PATIENTS WITH NON-SMALL CELL LUNG CANCER

Jill E. Robertson, Susanne E. Liewer

Department of Pharmaceutical and Nutrition Care, The Nebraska Medical Center; University of Nebraska Medical Center, College of Pharmacy, Omaha

Related To: Chapter 137. Lung Cancer

View in chapter

Topic: The U.S. Food and Drug Administration approved crizotinib in August 2011 for treatment of locally advanced or metastatic anaplastic lymphoma kinase-positive (ALK-positive) non-small cell lung cancer (NSCLC).¹





資料庫快速選單

- Cochrane Library
- Ebscohost
- > JCR Web
- MDConsult



- MicroMedex
- > Procedures Consult
- PubMed
- UptoDate
- Web of Science
- ▶ 華藝線上圖書館(CEPS+CETD)
- > 臺灣期刊論文索引系統
- 中國期刊全文數據庫
- > 校外連線設定方法





電子資源查詢系統 E-Resources Gateway

帳號:

同意使用規範並登入

使用規範

1. 認證説明:

帳號:

學校教師職員及醫院員工為**身分證號(英文字母須大寫)**;學生為學號。 **密舊**:

學校教師職員及醫院員工未曾修改過者預設值為**身分證繁(英文字母須**大寫);學生未曾修改過者預設值為**身分證繁(僑生為民國出生日期**6位數)。

- 所有資料庫均可自本校校園及醫院院區網域使用。Web版及全文資料庫 請先完成讀者遠端認證設定,即可自校外連線使用。
- 3. 嚴禁大量、連續及利用任何軟體,系統化下載及列印全文內容,並僅限個人學術研究使用,請勿流通及進行商業營利;違反上述規定,致損及本校使用權,一經查證屬實,將處以停權處分,並由讀者自行負擔相關法律責任。
- 請尊重智慧財產權,不得將檢索所得之資料內容,如文字、圖表或版權 聲明加以編輯、引申,或以任何形式與其他資料組合。
- 5. 因部份資料庫有上線人數限制,使用完畢請務必立即雜線。 資料庫查詢使用問題,請洽讀者服務組。

學校分機:1560;醫院分機:2967

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Micromedex 的形成

資料來源

世界醫學文獻 臨縣縣 藥物資制中心

請專家評估

毒物學家 藥理學家 臨床藥劑師 醫計

提供使用者

診療 治療 主 教 研究

編輯,整合,發表 更新資訊

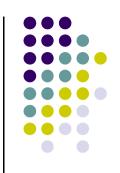
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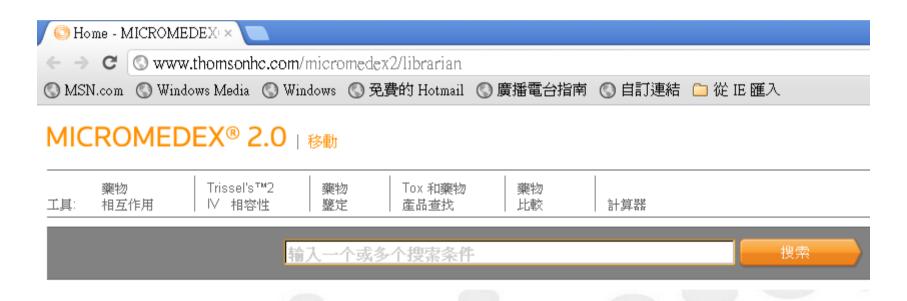
(by CD-ROM, Intranet,

Internet, PDA)









Five tools available in the Micromedex 2.0



- **Drug Interactions** allows you to check for interacting drug ingredients, their effects, and their clinical significance. Interaction information can be calculated for a single drug or between multiple drugs.
- Trissel's Two Compatibility provides easy access to proven Trissel's 2 data to assist with accurate IV compatibility decisions
- **Drug Identification** finds drugs based on their imprint code or physical description
- Tox & Drug Product Lookup to find product, manufacturer contact, and related toxicologic management information on: drugs, commercial/household products and chemicals, plants and animals, and slang terms/street names for drugs or substances
- Drug Comparison provides a side-by-side drug information comparison
- Calculators includes: antidote and dosing calculators and nomograms, lab values, dosing tools, clinical calculators, and measurement calculators.

以藥名病名或症狀搜尋



Amphotericin B

Amphotericin B

Intravenous, Oral, Topical

360° 檢視儀錶板 | • 跳轉到 235 其他搜尋結果

MICROMEDEX 藥物綜述資訊

藥物綜述資訊

- Adult Dosing
- Pediatric Dosing
- Dose Adjustments
- FDA-Labeled Indications
- Non-FDA Labeled Indications
- Black Box Warning
- Do Not Confuse
- Contraindications
- Precautions

- Pregnancy Category
- Breast Feeding
- Drug Interactions (single)
- Adverse Effects Common
- Adverse Effects Serious
- IV Compatibility (single)
- US Trade Names
- Class
- Regulatory Status

- Generic Availability
- Mechanism of Action/Pharmacokinetics
- Administration/Monitoring
- How Supplied
- Toxicology Clinical Effects
- Toxicology Treatment
- Toxicology Range of Toxicity
- Clinical Teaching
- References

檢觀線建文件♪

藥物工具

檢視詳細文件♪

檢視詳細文件

PRODUCT LOOKUP

Tox & Drug: Amphotericin B

DRUG CONSULTS (11 結果)

- ANTIBIOTICS SUBCONJUNCTIVAL USE IN INTRAOCULAR INFECTIONS
- IN-LINE INTRAVENOUS FILTERS GUIDELINES FOR USE
- PREVENTION AND TREATMENT OF ASPERGILLOSIS INFECTION IN HIV-INFECTED PERSON...
- PREVENTION AND TREATMENT OF CANDIDIASIS INFECTION IN HIV-INFECTED PERSONS ...

更多 >

COMPARATIVE EFFICACY (11 結果)

- Amphotericin B Cholesteryl Sulfate Complex
- Amphotericin B Lipid Complex
- Amphotericin B Liposome
- Caspofungin

更多♪

Amphotericin B 同時在以下項中找到...

步步驗證比較 Amphotericin B 與...

Toxicology and Exposure Information (1)

Disease Information (7)

235 找到以下項的結果: "Amphotericin B"

DrugPoint (summary)

DOSING & INDICATIONS

Adult Dosing

Pediatric Dosing

Dose Adjustments

FDA-Labeled Indications

Non-FDA Labeled Indications

BLACK BOX WARNING

CONTRAINDICATIONS/WARNINGS

Do Not Confuse

Contraindications

Precautions

Pregnancy Category

Breast Feeding

DRUG INTERACTIONS (SINGLE)

ADVERSE EFFECTS

Common Serious

IV COMPATIBILITY (SINGLE)

NAME INFO

US Trade Names

Class

Regulatory Status

Generic Availability

MECHANISM OF

ACTION/PHARMACOKINETICS:

ADMINISTRATION/MONITORING

HOW SUPPLIED

TOXICOLOGY

Clinical Effects

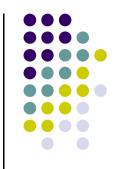
Treatment

Range of Toxicity

CLINICAL TEACHING



- 肝、腎不全劑量調整
- 其它疾病劑量調整
- Contraindications/Warning
 - Do Not Confuse,
- Drug Interactions(single)
- Adverse Effects
- IV compatibility
- Name info
- Mechanism of action/Pharmacokinetics
- Administration/Monitoring
- How Supplied
- Toxicology
- Clinical teaching
- References



DrugDex

REFERENCES [403] Canada JR: USP dictionary of USAN and international drug names, U.S. Pharmacopeial Convention, Inc, Rockville, MD, 1998.

OVERVIEW

DOSING INFORMATION

Drug Properties

Storage and Stability Adult Dosage

Pediatric Dosage

PHARMACOKINETICS

Drug Concentration Levels
ADME

CAUTIONS

Black Box Warning

Contraindications

Precautions

Adverse Reactions

Teratogenicity/Effects in

Pregnancy/Breastfeeding

Drug Interactions

CLINICAL APPLICATIONS

Monitoring Parameters

Patient Instructions

Place In Therapy

Mechanism of Action / Pharmacology

Therapeutic Uses

Comparative Efficacy / Evaluation With Other

Therapies

REFERENCES

DOSING INFORMATION

Drug Properties

- A) Information on specific products and dosage forms can be obtained by referring to the Tradename List (Product Index)
- B) Synonyms

Amphotericin B

- C) Physicochemical Properties
 - 1) Molecular Weight

a) 924.1 [403]

Storage and Stability

- A) Oral route
 - 1) Suspension
 - a) Amphotericin B oral suspension should be stored at 15 to 30 degrees Celsius (59 to 86 degrees F) and away from direct sunlight (Prod Info Fungizone(R) suspension, 2001).
- B) Parenteral route
 - 1) Although amphotericin B vials should be refrigerated, if left unrefrigerated it is stable for 2 weeks to 1 month at room temperature [225].
 - 2) Fungizone intravenous (Squibb) is available as a sterile cake containing sodium desoxycholate as a dispersing agent and sodium phosphates for buffering [226]. Solutions of 100 micrograms/milliliter in 5% dextrose generally raise the pH of the 5% dextrose from 4.5 to approximately 6.7 [227]. The manufacturer recommends using the following buffer solution for 5% dextrose solutions with a pH less than 4.2:

Dibasic sodium phosphate (anhydrous)----1.59 g

IV 相容性 在搜尋欄位鍵入藥物名稱(品牌或學名藥) 選擇藥物並按一下(新增)按鈕



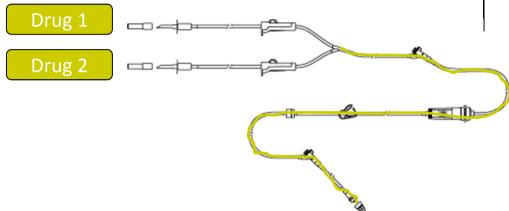
單一藥品

V 相容性 在搜尋欄位鏈入藥物名稱(品牌或學名藥)。選擇藥物並按一下 ⑤ (新增)按鈕。 輸入搜尋詢:			IV 相容性結果				
			Solution Y-Site Admixture Syringe TPN/TNA 常用溶液				
相符的藥物名稱: (1)	F的藥物名稱: (1)	要檢查的藥物: Amphotericin B liposome (AmBisom Dopamine hydrochloride Potassium chloride	D5W (D5W-Dextrose 5%) D10W (Dextrose 10%)	⊘	相容相容		
Dopamine hydrochloride	1		D5LR (Dextrose 5% in lactated Ringers)	▣	未測試		
		1 stassium emonde	D5NS (Dextrose 5% in sodium chloride 0.9%)		未測試		
	0		D5W - 1/2 NS (Dextrose 5% in sodium chloride 0.45%)		未測試		
			NS (Normal saline- Sodium chloride 0.9%) 1/2 NS (Sodium chloride 0.45%)	0	不相容		
			1/2 NG (Southin Unitride 0.45%)		未測試		
Y			其他溶液				
		清除	Dextrose 20%	✓	相容		

多項藥品

IV compatibility

Y-site



Admixture





IV COMPATIBILITY DETAIL

Drug 1	Drug 2	狀態	资讯	測試參數
Amphotericin B	Dopamine	0	物理相容	參考::9189
liposome	hydrochloride		性: Physically	
(AmBisome)	3.2mg/mL`in`	不相容	incompatible.	試驗期:4 hours.
1mg/mL`in`	D5W-Dextrose		Substantial increase	
D5W-Dextrose	5%		in measured turbidity	TITLE THOUGHT OF CONTROLLED TO
5%		相容性	occurred	electronic measurement of
	Abbott		immediately upon mixing and persisted	haze and particulates. The
Fujisawa	Laboratories		over 4 hours.	methods used in this testing
Pharmaceutical			over 4 nours.	have been described in the
			存放:Room	published articles cited below and have also been used in
			temperature near 23	numerous other published
			°C exposed to	drug compatibility studies: 1.
			fluorescent light.	Trissel LA, Martinez JF.
				Physical compatibility of
				melphalan with selected
				drugs during simulated Y-site
				administration. Am J Hosp
				Pharm 1993: 50:2359-63: 2

Drug 1Drug 2藥名、濃度、廠商名稱

物理、化學相容性 貯藏資訊

列印⇔ 關閉Х

參考文獻、容器資訊 研究時間、方法

Drug interactions



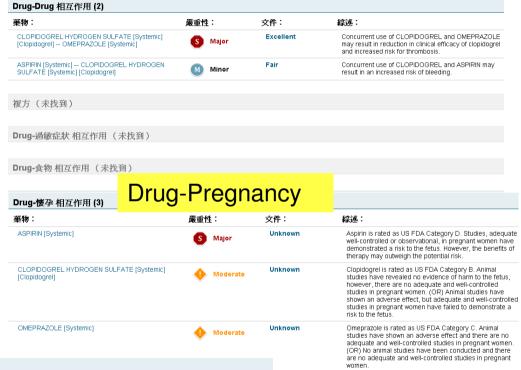
藥物相互作用

在搜尋欄位鏈入藥物名稱(品牌或學名藥)。選擇藥物並按一下 ◎ (新增)按鈕。

輸入搜尋詞:



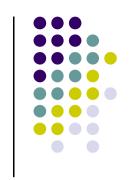
Drug-Drug



Drug-Lactation

Drug-哺乳期 相互作用 (3) 棄物: 嚴重性: 文件: 綜述: ASPIRIN [Systemic] Unknown According to the American Academy of Pediatrics, Aspirin Major should be given with caution during breast-feeding. CLOPIDOGREL HYDROGEN SULFATE [Systemic] Infant risk cannot be ruled out: Available evidence and/or Unknown Major expert consensus is inconclusive or is inadequate for [Clopidogrel] determining infant risk when Clopidogrel is used during breast-feeding. Weigh the potential benefits of treatment against potential risks before prescribing Clopidogrel during breast-feeding. OMEPRAZOLE [Systemic] Unknown Infant risk cannot be ruled out: Available evidence and/or Major expert consensus is inconclusive or is inadequate for determining infant risk when Omeprazole is used during breast-feeding. Weigh the potential benefits of treatment against potential risks before prescribing Omeprazole during breast-feeding.

2.



查Micromedex對加護病房藥師的方便性與參考價值 以兒科與外科為例

快速入門與資料參考性高

Optimal Medication Therapy

American College of Clinical Pharmacy Commentary



Meeting Patients'
 Needs in an Evolving
 Health Care System- Critical care

- Optimal medication therapy results
 - safety
 - effective
 - efficient
 - culturally sensitive medication ordering
 - order fulfillment, administration, and monitoring
- which achieves desired clinical outcomes for a specific patient

(Pharmacotherapy 2010;30(11):350e-359e)

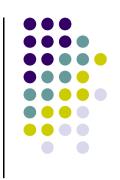
The process should be influenced by



- best evidence/practices
- based on knowledge of pathophysiology, pharmacology (including pharmacokinetics and pharmacodynamics), pharmacotherapy, other therapeutic modalities, pharmacogenomics, pharmacoeconomics, quality-of-life issues,
- principles of patient safety, and ethical/legal considerations

Medication therapy plans

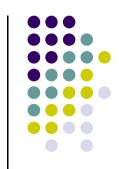
查房前準備工作 - 使用藥物



查詢與確認每一項藥品,以確認符合下列查核事項:

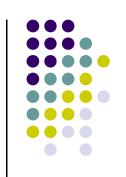
- 適應症、劑量、途徑、頻次….
- 過敏史
- 疾病現況與用藥是否相符合
- 是否出現藥物過敏或不良反應與監測參數
- 是否有重複用藥
- 是否有藥物交互作用
- 給藥方式是否恰當
- • • • •

從電子病歷中查詢病患資料



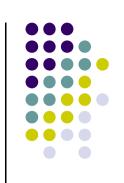
- 1. 用藥記錄(medication profile)
 - 記錄在何處
 - 藥物使用狀況
- 2. 使用藥物之適應症
 - 使用適應症
 - 使用於何種臨床症狀(symptom and/or sign)
- 3. 病患用藥物相關檢驗數據
 - 藥物治療成效
 - 藥物副作用或毒性反應
- 4. 實證醫學參考資料
 - 查詢藥物使用是否依據實證或建議準則





₩ 住院醫囑	系統【正式	忧版】 系統	流時間:10	1/07/06 11	:55 系統操	作者:M	淑惠		
醫藥囑 查	詢 病歷記	己載 其他	功能 病	患清單	團隊照護	個人設定	醫教&病安	離開	待機:8種
說明 使用	者MC	淑、	患	密码	1	密碼確認	學生回饋	作業	
護	理站SICU	病患清量	1 一艘	理站選擇	- ▼ 病	息主治 林田			
duty	床號	姓名	病歷號碼	住院日			科部主任的教學文件		
審危※	SIC			1010705	thoracic aneu	rysm, ruptured	教学义计		- 8
審危※	SIC			1010624	3V coronary	artery disease p	Up To Dat	е	
審危※	SIC			1010629	Type A aorti	c dissection with	MicroMed	ex	
審危※	SIC			1010616	Hepatocellul	ar carcinoma wit	MUSE 中國醫藥	-	型 給
審危※	SIC			1010630	Pseudoaneur	ysm of Rt popli	中國西%	八字图1	

查詢病人用藥資訊-2





Component of a FARM Note and a SOAP Note



PWDT	FARM Note	SOAP Note		
Findings	The identified or suggestive patient-specific information that gives a basis for or leads to the recognition of a pharmacotherapy problem or indication for pharmacist intervention			
	Finding Subjective and Obincorporate into sa	Subjective data (S) Separated from Objective data (O)		
Desired outcomes	Assessment (A) The pharmacist's clinical judgment based on his or her			
Desired endpoints				
Drug-related problems		no better than the database(the essment forms the basis for the		
Therapeutic selection	Resolutions/Reco	Plan (P)		
Monitoring parameters	Monitoring (M)			
Follow-up	Ref: Comprehensive		e Pharmacy Review 7th edition	
PWDT: pharmacist's work	up of drug therapy	p467 table 20-2 Lippincott Williams &Wilkins 2010		

PICU case

phytonadione dosage and route

8 months old male infant admmitted from ER to PICU due to

- 1. Acute hepatic failure
- 2. Failure to thrive
- 3. Volume depletion
- 4. Jaundice

Underline problems:



- (1).VLBW preterm infant, GA 28wks, BW 1060gm, NSD, A/S 8->9
- (2).Respiratory distress syndrome Gr III s/p Survanta x 1 dose
- (3). Fetal and neonatal intraventricular hemorrhage IVH III
- (4).ileal perforation s/p ileostomy (8/29) and revision (10/26)
- (5).posthemorrhagic hydrocephalus s/p EVD then s/p VP shunt
- (6).PDA s/p ibuprofen x 4 doses and PDA ligation
- (7).bacterial meningitis (K.P and MDRAB)
- (8).Bronchopulmonary dysplasia
- (9). Stage III ROP with plus disease s/p operation

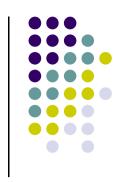
Pediatric dose of phytonadione



Trissel's™2 藥物 Tox 和藥物 藥物 T.直: 相互作用 Ⅳ 相容性 整定 產品查找 比較 計算器 输入一个或多个搜索条件 搜索 範例搜尋 Phytonadione DOSING & INDICATIONS Adult Dosing Pediatric Dosing 其他來源♪ DrugPoint® 綜述 🗓 FDA-Labeled Indications BLACK BOX WARNING DOSING & INDICATIONS **CONTRAINDICATIONS/WARNINGS** Adult Dosing Do Not Confuse Contraindications Pediatric Dosing Precautions Pregnancy Category Breast Feeding 檢視 DRUGDEX 中的詳細資訊 ▶ DRUG INTERACTIONS (SINGLE) ADVERSE EFFECTS use IV or IM only when unavoidable; severe reactions, including fatalities, have occurred with IV and IM [2]; however, the intramuscular route is recommended for neonates and preterm infants for treatment and prevention of hemorrhagic disease [5][2] Common Serious Hemorrhage of newborn: 1 mg SUBQ or IM [2] IV COMPATIBILITY (SINGLE) Hemorrhage of newborn; Prophylaxis: (term infants), 1 mg IM soon after birth [5] NAME INFO Hemorrhage of newborn; Prophylaxis: (preterm infants) body weight at least 1 kg at birth, 0.5 mg IM soon after birth [5] Drug Images Hemorrhage of newborn; Prophylaxis: (preterm infants) body weight less than 1 kg at birth, 0.3 mg/kg IM soon after birth [5] US Trade Names Hemorrhage of newborn; Prophylaxis: (when IM unavailable) 1 to 2 mg ORALLY at birth, 1 to 2 weeks of age, and 4 weeks of age [5] Class Regulatory Status OR 2 mg at birth followed by 1 mg ORALLY once weekly for 3 months OR 25 micrograms ORALLY daily for 3 months [6] Generic Availability MECHANISM OF FDA-Labeled Indications

ACTION/PHARMACOKINETICS

SICU case Amphotericin dosage

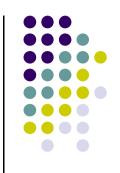


56 Y/O female 165/64.9kg, liver transplant in 廣州 under immunosuppresion agent use. Surgical wound infection s/p wound debridement.

Laboratory data: wbc 14.46, Hb 7.4, platelet 546, Creatinine 2.15, GFR 25, K3.3, bilT/D 3.29/1.89, Tacrolimus drug level 6.3

Doctor want to know the dosage regimen for her?

Amphotericin B DrugPoint and/or DrugDex



Amphotericin B

Intravenous, Oral, Topical

360°檢視儀錶板 | → 跳轉到 235 其他搜尋結果

MICROMEDEX 藥物綜述資訊

- Adult Dosing
- Pediatric Dosing
- Dose Adjustments
- FDA-Labeled Indications
- Non-FDA Labeled Indications
- Black Box Warning
- Do Not Confuse
- Contraindications
- Precautions

檢視線號文件▶

- Pregnancy Category
- Breast Feeding
- Drug Interactions (single)
- Adverse Effects Common
- Adverse Effects Serious
- IV Compatibility (single)
- US Trade Names
- Class
- Regulatory Status

- Generic Availability
- Mechanism of Action/Pharmacokinetics
- Administration/Monitoring
- How Supplied
- Toxicology Clinical Effects
- Toxicology Treatment
- Toxicology Range of Toxicity
- Clinical Teaching
- References

PRODUCT LOOKUP

■ Tox & Drug: Amphotericin B

DRUG CONSULTS (11 結果)

- ANTIBIOTICS SUBCONJUNCTIVAL USE IN INTRAOCULAR INFECTIONS
- IN-LINE INTRAVENOUS FILTERS -GUIDELINES FOR USE
- PREVENTION AND TREATMENT OF ASPERGILLOSIS INFECTION IN HIV-INFECTED PERSON...
- PREVENTION AND TREATMENT OF CANDIDIASIS INFECTION IN HIV-INFECTED PERSONS ...

更多▶

COMPARATIVE EFFICACY (11 結果)

- Amphotericin B Cholesteryl Sulfate Complex
- Amphotericin B Lipid Complex
- Amphotericin B Liposome
- Caspofungin

更多♪

藥物工具

■ 步步驗證比較 Amphotericin B 與...

檢視詳細文件♪

Adult doseing



Amphotericin B







|-| 全部折疊

| 全部展開



DOSING & INDICATIONS

▼ Adult Dosing

檢視 DRUGDEX 中的詳細資訊▶

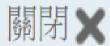
- test dose: 1 mg in 20 mL D5W IV over 20 to 30 min
- American mucocutaneous leishmaniasis: 0.25 to 1 mg/kg/day IV over 2 to 6 hours; MAX of 1.5 mg/kg when given on alternate days [2]
- Aspergillosis, Invasive: 0.25 to 1 mg/kg/day IV over 2 to 6 hours; MAX of 1.5 mg/kg when given on alternate days; duration has ranged up to 11 months and a total dose up to 3.6 grams [2]
- Aspergillosis, Invasive HIV infection: 1 mg/kg IV once daily [3]
- Blastomycosis: (moderately severe to severe pulmonary or disseminated disease) 0.7 to 1 mg/kg/day IV for 1 to 2 wk, followed by step-down therapy with oral itraconazole for 6 to 12 months (guideline dosing) [4]
- Blastomycosis: 0.25 to 1 mg/kg/day IV over 2 to 6 hr; MAX of 1.5 mg/kg when given on alternate days (manufacturer dosing) [2]
- Candidiasis: (candidemia; nonneutropenic patients) alternative therapy, 0.5 to 1 mg/kg/day IV; treat for 14 days after the first negative blood culture result and resolution of signs and symptoms related to candidemia (guideline dosing)
 [5]
- Candidiasis: (endophthalmitis) primary therapy, 0.7 to 1 mg/kg/day IV WITH flucytosine 25 mg/kg ORALLY four times

Different options for user



其他來源

- 轉至 DRUGDEX® 中有關該藥物的詳細文件 AMPHOTERICIN B
- 轉至 360° 檢視有關以下項的儀錶板 Amphotericin B
- 執行 Tox 和藥物產品查找 Amphotericin B



Tox & Drug Product Lookup



Ambisome

POISINDEX® 產品 🗓

產品文件資訊

POISINDEX® 管理: AMPHOTERICIN B

DRUGDEX® 評價: AMPHOTERICIN B LIPOSOME

監管狀態: RX

成分

活性成分: Amphotericin B Liposome - 50 MG/Vial

輔料: d-alpha tocopherol 0.64 MG/Vial

Sucrose 900 MG/Vial

Sodium Succinate (HEXAHYDRATE) 27 MG/Vial

pH 值: 5 - 6 (reconstituted)

可用性 & 製造

可用性: United States

可用容器大小: 50 MG Vial, package of 10

製造商: Fujisawa

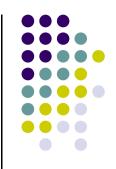
地址: Parkway North Center

Three Parkway North Deerfield, IL 60015-2548

聯絡資訊: Business Hours: www.fujisawausa.com (Web Site)

Business Hours: (800) 888-7704 (Phone) (Medical Information)

Evidence summary of original article



Systemic mycosis

a) Intravenous amphotericin B liposome was less toxic and increased survival when compared to conventional amphotericin B in 20 bone-marrow and organ-transplant recipients with systemic mycoses. In this retrospective comparison, differences in survival rates upon hospital discharge were 10% and 51% for kidney/pancreas and bone marrow/liver transplant recipients, respectively, in favor of amphotericin B liposome. Increased survival in these patients in favor of amphotericin B liposome was also observed during a 2.5-year follow-up period. Statistical significance was not reported. Conventional amphotericin B was significantly more toxic than amphotericin B liposome. In patients receiving conventional amphotericin B, nephrotoxicity occurred in 8 of 10 patients; and 3 other patients developed gastrointestinal hemorrhage requiring transfusion. In patients receiving amphotericin B liposome, 1 patient developed cholestasis [244][245].

-- --!--



conventional amphotericin B in 20 bone-marrow and organ-tra

REFERENCES

[245] Tollemar J & Ringden O: Lipid formulations of amphotericin B: less toxicity but at what economic cost?. Drug Saf 1995; 13:207-218.

關閉×





如何以臨床問題引導學生查資料及給予教學回饋

延伸繼有知識及強化學習者的查閱及判讀能力

ADR-Skin Rash

報告藥師:林oo 藥師

指導藥師:姚淑惠藥師

報告日期:101年03月01日



Problem list

• 檢視現行用藥中,何者藥物可能會產生1/30 Skin rash on torso?

<u>O:</u>

	1/28	1/29	1/30	1/31	2/1	2/2	2/3
MoxiFloxacin(針劑) 400mg/250ml/BT		400m	g QD				
OMEPRAZOLE (F) Inj 40mg/VI		40mg	g QD				
Ranitidine 50mg/2ml/Amp	50mg q8h						
KCL 10meq in 0.33% G/S 500ml/Bag				3BT QD			
Metoclopramide 10mg/2cc/Am					.0mg q121	h	
Ultracet Tab (複方)						1# QID	
Mosapride 5mg/T							5mg TID

\mathbf{A}



- Which drugs could be the cause of skin rash?
 - Candidate: Moxifloxacin or Omeprazole

P:

Sugg. DC of Moxifloxacin & Omeprazole F/u skin rash condition

Moxifloxacin –induced skin rash

- Incidence: oral/IV, 0.1% to less than 2%
- Some of the adverse events were due to hypersensitivity and usually occurred after the administration of multiple doses.
- Discontinue moxifloxacin hydrochloride if a patient experiences rash or if any hypersensitivity reaction is suspected and initiate appropriate supportive measures

MICROMEDEX®





- **1)** Incidence: 1.5%[181]
- 2) In worldwide clinical trials (n=3096), rash was reported in 1.5% of omeprazole-treated patients [181].
- 3) In a study of 104 assessable patients, only 1 patient reported an adverse drug reaction which was a rash. This study was evaluating the efficacy of omeprazole for treating gastroesophageal reflux disease in intellectually disabled patients





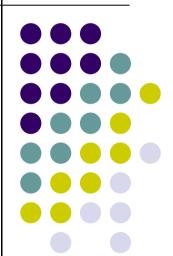
Metoclopramide - Rash

- In postmarketing experience, a few cases of rash and urticaria have been reported with the use of metoclopramide tablets. A causal relationship to <u>drug exposure has not been</u> <u>established</u>.
- Metoclopramide has occasionally been reported to cause urticaria or maculopapular rashes.

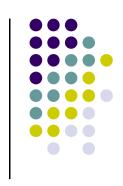
Chronic Heart Failure in a 44 year-old female with HTN And DM

報告藥師:林 0 0

指導藥師:姚淑惠 林玟玲







- NITROGLYCERIN(新劑型) 5mg/10ml/Amp
- 可原液輸注或以NS, D5W或LR, 稀釋至0.05-0.5 mg/ml。
- 此藥會被polyvinyl chloride吸附(15-80%不等),建議使用玻璃,聚乙烯(polyethylene)或聚丙烯(polypropylene)製成的容器盛裝藥物。
- Peripheral and coronary venous and arterial vasodilation resulting in decreased preload and afterload and increased coronary blood flow, thus increasing myocardial oxygen supply and decreasing myocardial oxygen demand. Clinical investigation has also suggested that organic nitrates interrupt platelet hyperactivity.
- 0.6cc/hr = (0.6cc*5mg/10mI)/60 mg/min = 0.005mg/min= $5\mu g/mI - CHF$ initial dose

Ultract (Actainophen + Tramadol) - Rash



Rash

- 1) Incidence: 1% or greater
- 2) Rash was reported in at least 1% of patients receiving tramadol/acetaminophen in single-dose or repeated-dose clinical studies

Pruritus

- 1) Incidence: 1% to 2%
- 2) Pruritus occurred in 2% of patients receiving tramadol/acetaminophen for 5 days (average of at least 6 tablets/day) in clinical trials (n=142).
- 3) Pruritus was reported in at least 1% of patients receiving tramadol/acetaminophen in single-dose or repeated-dose clinical studies.

Stevens-Johnson syndrome

 1) Stevens-Johnson syndrome has been reported in patients receiving tramadol in clinical trials.

Case Report

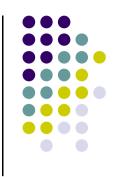
A 45years old male with NSTEMI, hypertension and Type II Diabetes Mellitus

報告藥師:王oo

指導藥師:姚淑惠林玟玲

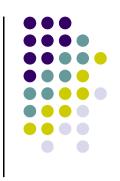


Presentation outlines



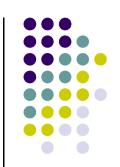
- Patient general information
 - Basic data
 - Chief complaint
 - Past and Other history
 - Physical Examination
 - Lab. data
 - Images
 - Diagnosis
- Medication Therapy
- Disease review NSTEMI(Non ST elevated myocardial infarction)
- SOAP note of drug evaluation





藥品名	劑量	頻率	途徑	用法
Heparin 25000u/5ml/VI**	0.2via	stat	lv	Loading 50cc/hr (2500u)
Heparin 25000u/5ml/VI**	1vial	stat	Iv	16cc/hr(800u)
ASPirin 300mg/T	1#	stat	ро	外院 100mg
Clopidogrel 75mg/T	4#	stat	ро	外院 300mg





- 2011ACCF/AHA Focused Update Incorporated Into the ACC/AHA 2007 Guidelines for the Management of Patients With Unstable Angina/Non– ST-Elevation Myocardial Infarction. A Report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. J Am Coll Cardiol. 2011;57:1920–59.
- http://www.vghks.gov.tw/icu/doc09.htm
- J Am Coll Cardiol. 2011 May 10;57 (19) :e215-367.
- 2010 高血壓治療指引 http://www.tsoc.org.tw/db/Jour/2/20101231/14.pdf
- MICRMEDEX
- PHARMACOTHERAPY
- UP TO DATE
- Yusuf S, Zhao F, Mehta SR, Chrolavicius S, Tognoni G, Fox KK;
 Clopidogrel in Unstable Angina to Prevent Recurrent Events Trial
 Investigators. Effects of clopidogrel in addition to aspirin in patients
 with acute coronary syndromes without ST-segment elevation. N Engl
 J Med 2001;345:494-502.

Micromedex 2:

A fast track for drug information search



Clopidogrel Hydrogen Sulfate

| 全部展開

額示整個文件

| 全部折疊



DrugPoint® 綜沭 😣

DOSING & INDICATIONS

- Acute ST segment elevation myocardial infarction Percutaneous coronary intervention Thrombosis: Prophylaxis: maintenance. 75 mg ORALLY plus aspirin once daily [4][3].
- Acute ST segment elevation myocardial infarction Percutaneous coronary intervention Thrombosis; Prophylaxis; bare metal stents: duration of therapy for at least 12 months [3]
- Acute ST segment elevation myocardial infarction Percutaneous coronary intervention Thrombosis; Prophylaxis; drug-eluting stents: duration of therapy for at least 12 months; continuation of therapy beyond 15 months may be considered [3]
- Acute ST segment elevation myocardial infarction Thrombosis; Prophylaxis; optional loading dose of 300 mg ORALLY [2]. followed by 75 mg ORALLY once daily in combination with aspirin 75 to 325 mg, with or without thrombolytics [4][2]
- Cerebrovascular accident, Recent Thrombosis; Prophylaxis: 75 mg ORALLY once daily [5][2]
- Myocardial infarction, Recent Thrombosis; Prophylaxis: 75 mg ORALLY once daily [4][2]
- Non-ST segment elevation myocardial infarction, acute Percutaneous coronary intervention Thrombosis; Prophylaxis: initial loading dose, 300 mg to 600 mg with aspirin 75 to 325 mg as soon as possible [6][2]; maintenance, 75 mg ORALLY plus aspirin 75 to 325 mg once daily [4][6][2]

REFERENCES [6] Wright RS, Anderson JL, Adams CD, et al: 2011 ACCF/AHA Focused Update of the Guidelines for the Management of Patients With Unstable Angina/Non-ST-Elevation Myocardial Infarction (Updating the 2007 Guideline) A Report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines, J Am Coll Cardiol 2011; Epub:Epub. PubMed Abstract: http://www.ncbi.nlm.nih.gov/... PubMed Article: http://www.ncbi.nlm.nih.gov/...

REFERENCES

[4] Vandvik PO, Lincoff AM, Gore JM, et al: Primary and Secondary Prevention of Cardiovascular Disease: Antithrombotic Therapy and Prevention of Thrombosis, 9th ed: American College of Chest Physicians Evidence-Based Clinical Practice Guidelines, Chest 2012: 141(2 suppl):e637S-e668S.

PubMed Abstract: http://www.ncbi.nlm.nih.gov/... PubMed Article: http://www.ncbi.nlm.nih.gov/...



Knowledge of pharmacotherapy groundwork



Journal of the American College of Cardiology © 2011 by the American College of Cardiology Foundation and the American Heart Association, Inc. Published by Elsevier Inc. Vol. 57, No. 19, 2011 ISSN 0735-1097/\$36.00 doi:10.1016/j.jacc.2011.02.009

PRACTICE GUIDELINE

2011 ACCF/AHA Focused Update of the Guidelines for the Management of Patients With Unstable Angina/Non-ST-Elevation Myocardial Infarction (Updating the 2007 Guideline)

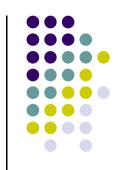
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	1.2.	Organ	nization of Con	nmittee	1924
	1.3.	Docu	ment Review a	nd Approval	1924
3.					
	3.2.			r Antiplatelet/Ant	
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				or Definite	
				ns for Antiplatelet Thons for Additional	
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			PATIENTS F	OR WHOM DIAGNOSIS O	F UA/NSTEMI
			IS LIKELY O	OR DEFINITE	1924
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	lix 1. Author Relationships With Industry her Entities
7.1.	Recommendation for Quality of Care and Outcomes for Acute Coronary Syndromes (NEW SECTION)
7. Con	clusions and Future Directions
	6.5.1. Angiography in Patients With Chronic Kidney Disease
	Kidney Disease

Table 2. Recommendations for Early Hospital Care Antiplatelet Therapy

- A loading dose of thienopyridine is recommended for UA/NSTEMI patients for whom PCI is planned. Regimens should be 1 of the following:
 - a. Clopidogrel 300 to 600 mg should be given as early as possible before or at the time of PCI (13,27-31) (Level of Evidence: A) or

New recommendation (included to be concordant with 2009 STEMI and PCI Focused Update (32),



The End

Thank you