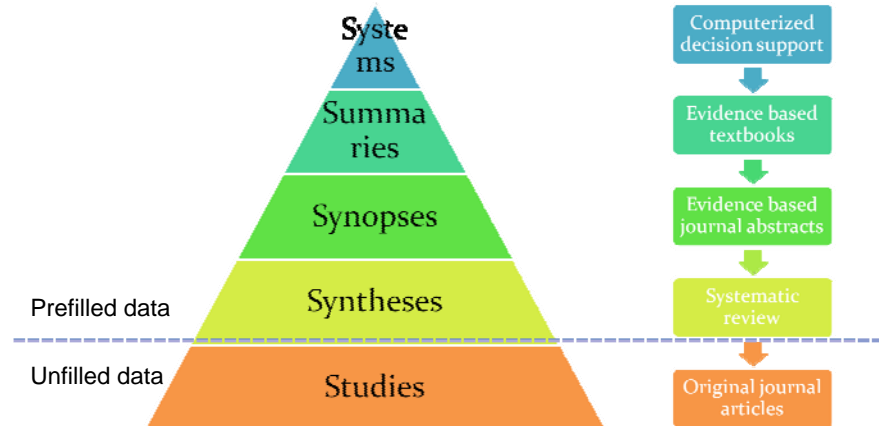


如何運用實證資料庫 解決藥品諮詢問題之實務經驗分享

高雄醫學大學附設中和紀念醫院 藥劑部 許郁笙 藥師



“5S” model searching strategy



- A • Analysis
- A • Asking
- A • Acquire
- A • Appraisal
- A • Application
- A • Audit

實證步驟之應用

- 分析問題種類
 - 一般藥物導向
 - 治療學導向
- 分析諮詢對象
 - 資訊深淺、語言
- 搜尋適合的資訊來源

一般藥品導向之參考資源

- Physicians' Desk Reference (PDR)
- Handbook of Nonprescription Drugs
- Drug Facts and Comparisons
- AHFS Drug Information
- Martindale's Extra Pharmacopoeia
- Drug Information Handbook
- MIMS台灣藥品手冊

治療學方面之資訊來源

- Applied Therapeutics: The Clinical Use of Drugs
- Current Therapy
- Harrison's Principles of Internal Medicine
- Handbook of antimicrobial therapy
- Pharmacotherapy: A Pathophysiologic Approach
- Pharmacological Basis of Therapeutics
- Textbook of Therapeutics



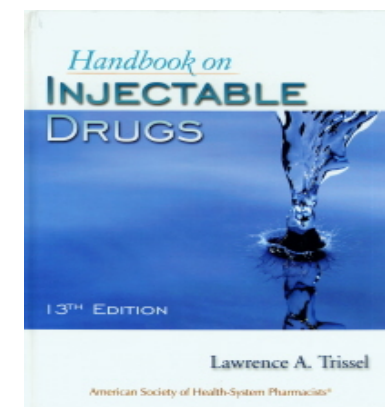
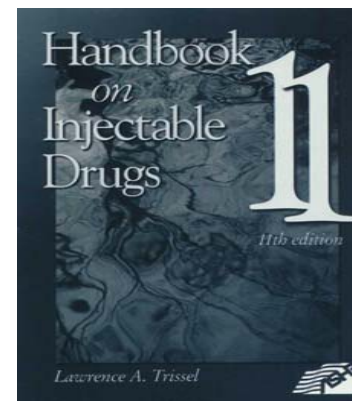
常見藥品諮詢問題之種類

武器：參考資源

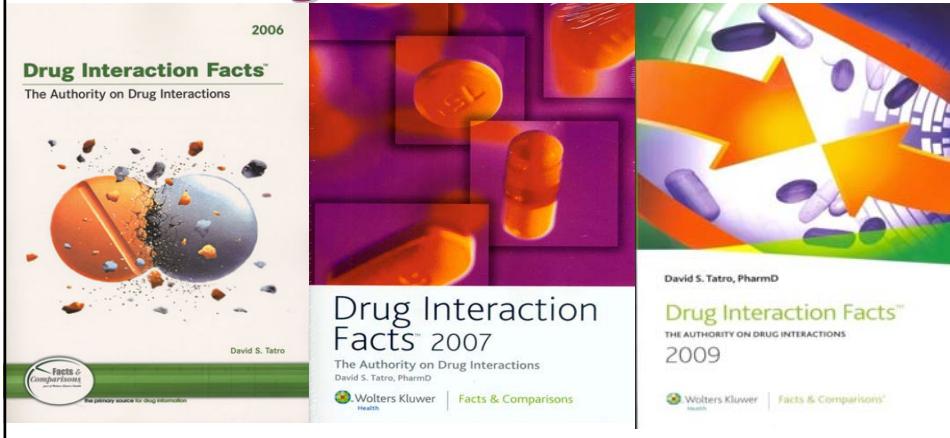
常見藥品諮詢問題之種類

- 藥物不良反應 (adverse drug reaction)
- 劑量 (包括肝腎功能不良、老人、兒童) 之劑量調整及投藥方式
- 藥品交互作用 (drug interaction)
- 適應症 (indications)
- 中毒或藥品過量的處理 (toxicology)
- 藥品鑑定、辨識
- 懷孕及哺乳之用藥考量
- 藥品動態學 (pharmacokinetics: ADME)
- 其他，如：
 - 相容性、禁忌、費用、配製、安定性、貯存及健保規範等

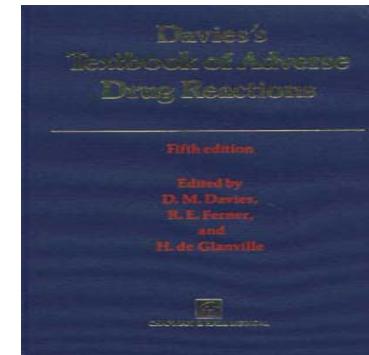
Handbook on Injectable Drugs



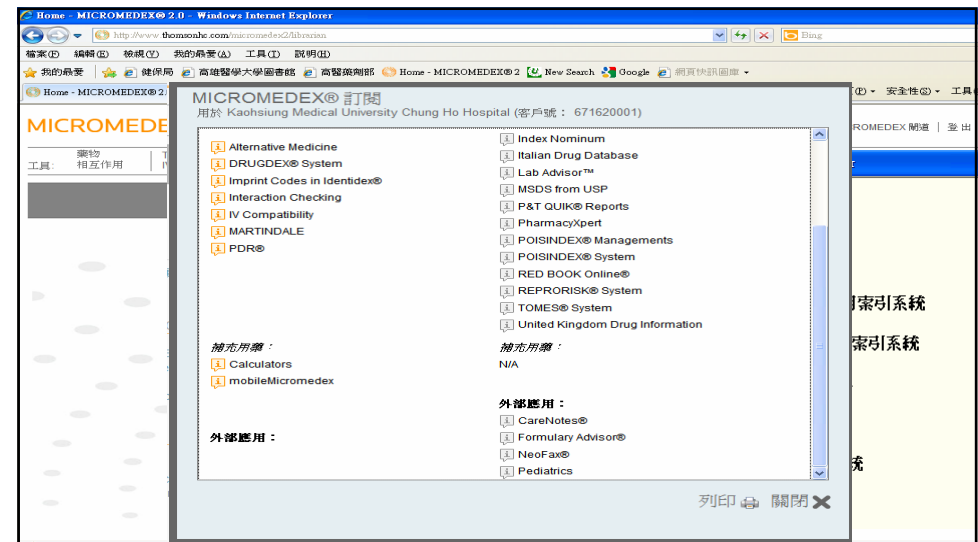
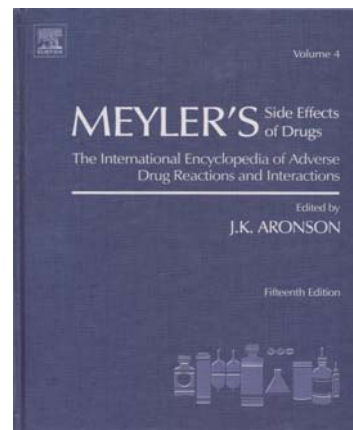
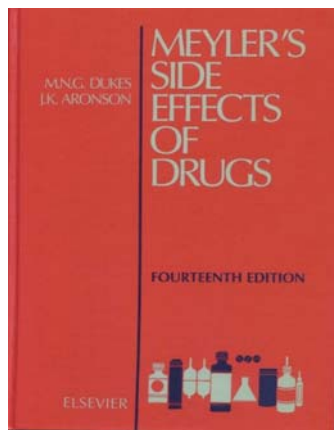
Drug Interaction Facts



Davies's Textbook of Adverse Drug Reactions



Meyler's side effects of drugs



1. Perdipine (nicardipine)為例
2. Harnalidge (tamsulosin)為例

藥品相關資訊查詢

The screenshot shows the MICROMEDEX 2.0 search results for "Pseudoephedrine Hydrochloride". The search bar contains "nicardipine", and the dropdown menu shows suggestions including "Nicardipine", "Nicardipine HCl", "Nicardipine Hydrochloride", "Nicazel", and "Novaplus NICARDipine Hydrochloride". The search results page displays a table of contents for the product, including sections like "Breast Feeding", "Drug Interactions (single)", "Adverse Effects - Common", "Adverse Effects - Serious", "Drug Images", "US Trade Names", "Class", "Regulatory Status", "Generic Availability", "Administration/Monitoring", "How Supplied", "Toxicology - Clinical Effects", "Toxicology - Treatment", "Toxicology - Range of Toxicity", "Clinical Teaching", and "References". The "PRODUCT LOOKUP" section shows the product name "Pseudoephedrine Hydrochloride" and a link to "更多圖像" (More Images). The "DRUG CONSULTS" section shows "DRUGS CONSIDERED SAFE - ACUTE PORPHYRIAS" (1 result). The "COMPARATIVE EFFICACY" section shows "6 results".

The screenshot shows the MICROMEDEX 2.0 search results for "Nicardipine Hydrochloride". The search bar contains "nicardipine", and the dropdown menu shows suggestions including "Nicardipine", "Nicardipine HCl", "Nicardipine Hydrochloride", "Nicazel", and "Novaplus NICARDipine Hydrochloride". The search results page displays a table of contents for the product, including sections like "Breast Feeding", "Drug Interactions (single)", "Adverse Effects - Common", "Adverse Effects - Serious", "Drug Images", "US Trade Names", "Class", "Regulatory Status", "Generic Availability", "Administration/Monitoring", "How Supplied", "Toxicology - Clinical Effects", "Toxicology - Treatment", "Toxicology - Range of Toxicity", "Clinical Teaching", and "References". The "PRODUCT LOOKUP" section shows the product name "Nicardipine Hydrochloride" and a link to "更多圖像" (More Images). The "DRUG CONSULTS" section shows "DRUGS CONSIDERED SAFE - ACUTE PORPHYRIAS" (1 result). The "COMPARATIVE EFFICACY" section shows "6 results".

The screenshot shows the MICROMEDEX 2.0 search results for "Nicardipine Hydrochloride". The search bar contains "nicardipine", and the dropdown menu shows suggestions including "Nicardipine", "Nicardipine HCl", "Nicardipine Hydrochloride", "Nicazel", and "Novaplus NICARDipine Hydrochloride". The search results page displays a table of contents for the product, including sections like "Breast Feeding", "Drug Interactions (single)", "Adverse Effects - Common", "Adverse Effects - Serious", "Drug Images", "US Trade Names", "Class", "Regulatory Status", "Generic Availability", "Administration/Monitoring", "How Supplied", "Toxicology - Clinical Effects", "Toxicology - Treatment", "Toxicology - Range of Toxicity", "Clinical Teaching", and "References". The "PRODUCT LOOKUP" section shows the product name "Nicardipine Hydrochloride" and a link to "更多圖像" (More Images). The "DRUG CONSULTS" section shows "DRUGS CONSIDERED SAFE - ACUTE PORPHYRIAS" (1 result). The "COMPARATIVE EFFICACY" section shows "6 results".

MICROMEDEX® 2.0 | 移動

我的訂閱 | MICROMEDEX 簡述 | 登出 | 註冊

工具: 藥物 相互作用 | Trissel's™2 IV 相容性 | 藥物 鑒定 | Tox 和藥物 產品查找 | 藥物 比較 | 計算器

perdipine SEARCH 範例搜尋

可用途徑

Nicardipine Hydrochloride

Nicardipine Hydrochloride [Your search: Nicardipine]
Intravenous, Oral
360° 檢視連續板 | 跳轉到 316 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
- Do Not Confuse
- Contraindications
- Precautions
- Pregnancy Category
- Breast Feeding
- Drug Interactions (single)
- Adverse Effects - Common
- Adverse Effects - Serious
- IV Compatibility (single)
- Drug Images
- US Trade Names
- 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: Nicardipine Hydrochloride
- Martindale: Nicardipine Hydrochloride

藥物圖片

更多圖像 >

DRUG CONSULTS (2 結果)

- HYPERTENSION RISK STRATIFICATION AND TREATMENT RECOMMENDATIONS
- MIGRAINE - RECOMMENDATIONS FOR PROPHYLAXIS IN ADULTS

COMPARATIVE EFFICACY (33 結果)

其他資訊

不記得每一種商品名都找得到
如果可以的話盡量用學名去搜尋

MICROMEDEX® 2.0 | 移動

我的訂閱 |

工具: 藥物 相互作用 | Trissel's™2 IV 相容性 | 藥物 鑒定 | Tox 和藥物 產品查找 | 藥物 比較 | 計算器

SEARCH 範例搜尋

當出現紅字時，會以為自己輸入錯誤！！

您要尋找的不是: isradipine, felodipine, isradipine, medicine, benidipine

1 找到以下項的結果: "perdipine"

顯示: 全部 (1) | 藥物 (1)

頁面 1: 以下項的結果: 1-1

1. Nicardipine Hydrochloride
Drug: International Drug Information (Martindale)

頁面 1: 以下項的結果: 1-1

Martindale - MICROMEDEX® 2.0 - Windows Internet Explorer

http://www.thomsonhc.com/micromedex2/abstracts/ND_T/videnceexpertND_FR/videnceexpertCZ/608EB4ND_AppProductvidenceexpertVD

檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)

我的最愛 健保局 高雄醫學大學圖書館 高醫藥劑部 Home - MICROMEDEX® 2 New Search Google 網頁快訊圖庫

Martindale - MICROMEDEX® 2.0

輸入一个或多个搜索条件 SEARCH 範例搜尋

NICARDIPINE HYDROCHLORIDE
Physical And Pharmaceutical Properties
PROPRIETARY NAMES
PHYSICO-CHEMICAL CHARACTERISTICS
Incompatibility
ADVERSE EFFECTS, TREATMENT, AND PRECAUTIONS
INTERACTIONS
PHARMACOKINETICS
USES AND ADMINISTRATION
Administration in children.
Administration in hepatic or renal impairment.
Cerebrovascular disorders.

Nicardipine Hydrochloride
MARTINDALE - The Complete Drug Reference

其他來源 >

See also Cardiovascular Drugs

Nicardipine Hydrochloride

Physical And Pharmaceutical Properties

- Name Status: BANM, USAN, rINN
- Synonyms: Hidrocloruro de nicardipino; Nicardipina Cloridato; Nicardipine, Chlorhydrate de; Nicardipini Hydrochloridum; Nicardipino, hidrocloruro de; Nikardipinihidrokloridi; Nikardipin Hidroklorür; Nikardipinihidroklorid; RS-69216; RS-69216-XX-07-0; YC-93
- Chemical Name: 2-[Benzyl(methylamino)ethyl methyl 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)pyridine-3,5-dicarboxylate hydrochloride
- Molecular Formula: C26H29N3O6.HCl
- Molecular Weight: 516.0
- CAS Registry: 55985-32-5 (nicardipine); 54527-84-3 (nicardipine hydrochloride)
- Pharmacopoeias: In Chin. and Jpn.
- ATC: C08CA04

Proprietary Names

健保局 高雄醫學大學圖書館 高醫藥劑部 Home - MICROMEDEX® 2 New Search Google 網頁快訊圖庫

MICROMEDEX® 2.0

輸入一个或多个搜索条件 SEARCH 範例搜尋

HYDROCHLORIDE
Pharmaceutical Properties
PROPRIETARY NAMES
CHEMICAL CHARACTERISTICS
EFFECTS, TREATMENT, AND PRECAUTIONS
PHARMACOKINETICS
ADMINISTRATION
Administration in children.
Administration in hepatic or renal impairment.
Cerebrovascular disorders.

Nicardipine Hydrochloride
MARTINDALE - The Complete Drug Reference

其他來源 >

執行 Tox 和藥物產品查找 Nicardipine Hydrochloride
執行 Martindale 藥物產品查找 Nicardipine Hydrochloride

關閉

- Molecular Formula: C26H29N3O6.HCl
- Molecular Weight: 516.0
- CAS Registry: 55985-32-5 (nicardipine); 54527-84-3 (nicardipine hydrochloride)
- Pharmacopoeias: In Chin. and Jpn.
- ATC: C08CA04

Proprietary Names

MICROMEDEX® 2.0 | 移動

工具: 藥物 相互作用 | Triasefs™2 IV 相容性 | 藥物 鑒定 | Tox 和藥物 產品查找 | 藥物 比較 | 計算器

可用途徑: **Nicardipine Hydrochloride**

Nicardipine Hydrochloride
Intravenous, Oral
nicaraiipine Hyacrochloride [Your search: nicardipine Hydrochloride]
360° 檢視儀錶板 | 跳轉到 316 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
- Do Not Confuse
- Contraindications
- Precautions
- Pregnancy Category
- Breast Feeding
- Drug Interactions (single)
- Adverse Effects - Common
- Adverse Effects - Serious
- IV Compatibility (single)
- Drug Images
- 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

藥物圖片
更多圖像

DRUG CONSULTS (2 結果)
HYPERTENSION RISK STRATIFICATION
TREATMENT RECOMMENDATIONS

Nicardipine intravenous bolus dosing for acute... [Anesth Analg, 1999] - PubMed - NCBI - Windows Internet Explorer

http://www.ncbi.nlm.nih.gov/pubmed/10553821

PubMed
US National Library of Medicine
National Institutes of Health

Display Settings: Abstract
Performing your original search, **nicardipine bolus**, in PubMed will retrieve **100 records**.

Nicardipine intravenous bolus dosing for acutely decreasing arterial blood pressure during general anesthesia for cardiac operations: pharmacokinetics, pharmacodynamics, and associated effects on left ventricular function.
Cheung AT, Guvakov DV, Weiss SJ, Savino JS, Salgo JS, Meng QC
Department of Anesthesia, University of Pennsylvania, Philadelphia 19104-4283, USA. cheunga@mail.med.upenn.edu

Abstract
The objective of this study was to evaluate the efficacy of nicardipine, a dihydropyridine calcium channel antagonist, administered as an IV bolus dose to acutely decrease arterial pressure in anesthetized cardiac surgical patients. We performed a double-blind, randomized, self-controlled, dose-ranging study in 40 adult cardiac surgical patients to determine the pharmacokinetics and pharmacodynamics of nicardipine 0.25 mg, 0.50 mg, 1.00 mg, and 2.00 mg administered as an IV bolus. Transesophageal echocardiography was used to assess left ventricular preload, afterload, and global systolic function. Plasma nicardipine concentration was measured using high-performance liquid chromatography. Nicardipine selectively decreased arterial pressure in a dose-dependent manner with a maximum response within 100 s and recovery to half the maximum response within 3-7 min without associated changes in heart rate. The decreases in arterial pressure were associated with only small decreases in left ventricular end-systolic wall stress and small increases in global left ventricular systolic function without changes in left ventricular end-diastolic cavity area or cardiac output. The time course for nicardipine bolus was consistent with a two-compartment pharmacokinetic model with rapid redistribution from a small central compartment. IMPLICATIONS: Nicardipine was effective for selectively decreasing arterial blood pressure acutely, but had no effects on ventricular preload or cardiac output. The absence of dose-dependent changes in cardiac output, left ventricular systolic performance, and left ventricular afterload despite significant decreases in arterial pressure suggested that nicardipine had a small negative inotropic action.

PMID: 10553821 [PubMed - indexed for MEDLINE] Free full text

Publication Types, MESH Terms, Substances
LinkOut - more resources

Save items
Add to Favorites

Related citations in PubMed
Beat-to-beat augmentation of left ventricular function by intraaortic (Anesthesiology, 1996)
Clevidipine in adult cardiac surgical patients: a dose-finding study. (Anesthesiology, 2002)
Haemodynamic effects of hypotension induced by KR22391 in (Can J Anaesth, 1997)
Techniques for assessing inotropic effects of drugs in patients (Am Heart J, 1990)
Intravenous nicardipine: its use in the short-term treatment of hyperten (Drugs, 2006)

Cited by 1 PubMed Central article
Management of systemic and pulmonary hypertensive (Tex Heart Inst J, 2005)

Related information

360 View Dashboard - MICROMEDEX® 2.0 - Windows Internet Explorer

http://www.thomsonhc.com/micromedex2/tbox/usa/ND_Tevidenceexpert/ND_FR/evidenceexpert/CS/12A6D2/ND_AppProduct/evidenceexpert/D

360 View Dashboard - MICROMEDEX® 2.0

MICROMEDEX® 2.0 | 移動

工具: 藥物 相互作用 | Triasefs™2 IV 相容性 | 藥物 鑒定 | Tox 和藥物 產品查找 | 藥物 比較 | 計算器

可用途徑: **Tamsulosin Hydrochloride**

Tamsulosin Hydrochloride
Oral
Tamsulosin Hydrochloride [Your search: Tamsulosin]
360° 檢視儀錶板 | 跳轉到 164 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
- Contraindications
- Precautions
- Pregnancy Category
- Breast Feeding
- Drug Interactions (single)
- Adverse Effects - Common
- Adverse Effects - Serious
- 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

藥物圖片
更多圖像

DRUG CONSULTS (2 結果)
ALPHA BLOCKER USE IN BENIGN PROSTATIC HYPERPLASIA
NEW DRUG APPROVALS - 2010 MICROMEDEX NEWS

360 View Dashboard - MICROMEDEX® 2.0 - Windows Internet Explorer

http://www.thomsonhc.com/micromedex2/tbox/usa/ND_Tevidenceexpert/ND_FR/evidenceexpert/CS/1A46AC3/ND_AppProduct/evidenceexpert/D

360 View Dashboard - MICROMEDEX® 2.0

MICROMEDEX® 2.0 | 移動

工具: 藥物 相互作用 | Triasefs™2 IV 相容性 | 藥物 鑒定 | Tox 和藥物 產品查找 | 藥物 比較 | 計算器

可用途徑: **Tamsulosin Hydrochloride**

Tamsulosin Hydrochloride
Oral
Tamsulosin Hydrochloride [Your search: Tamsulosin]
360° 檢視儀錶板 | 跳轉到 164 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
- Contraindications
- Precautions
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- Administration/Monitoring
- How Supplied
- Toxicology - Clinical Effects
- Toxicology - Treatment
- Toxicology - Range of Toxicity
- Clinical Teaching
- References

藥物圖片
更多圖像

DRUG CONSULTS (2 結果)
ALPHA BLOCKER USE IN BENIGN PROSTATIC HYPERPLASIA
NEW DRUG APPROVALS - 2010 MICROMEDEX NEWS

COMPARATIVE EFFICACY (7 結果)
Afluzosin
Doxazosin
Finasteride
Saw Palmetto

MARTINDALE - 其他資訊 (1 結果)

Drug details - MICROMEDEX® 2.0 - Windows Internet Explorer

http://www.thomsonhc.com/micromedex2/0/home/ND_TeviewsequestCRAED6D/ND_AppZotuteviewsequestI

我的最愛 檢視 我的最愛 工具 說明

我的最愛 健保局 高雄醫學大學圖書館 高醫藥劑部 Home - MICROMEDEX® 2 New Search Google 網頁快訊圖庫

Drug details - MICROMEDEX® 2.0

OVERVIEW

DOSING INFORMATION

Drug Properties

Storage and Stability

Adult Dosage

Pediatric Dosage

PHARMACOKINETICS

Onset and Duration

Drug Concentration Levels

ADME

CAUTIONS

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

TAMSULOSIN

DRUGDEX® 評價 其他來源

顯示整個文件

全部展開 全部折疊

Comparative efficacy / Evaluation with other therapies

Alfuzosin

Doxazosin

Finasteride

Sildenafil

Terazosin

Tolterodine

Benign prostatic hyperplasia

REFERENCES

[133] Lowe F: Alpha-1-adrenoceptor blockade in the treatment of benign prostatic hyperplasia. Prostate Cancer Prostat Dis 1999; 2:110-119.

Symptom score improvements may have been slightly better with terazosin than with the other 3 alpha blockers, while improvement in peak flow rates may have been slightly lower with alfuzosin than with the other 3 agents. Only double-blind, placebo-controlled trials were included in the analysis; there were 5 studies related to terazosin, 3 related to doxazosin, and 2 related to alfuzosin for tamsulosin, 5 studies were included in the peak flow comparison and 4 in the symptom score comparison [133].

網頁發生錯誤

MEDEX® 2.0 | 移動

我的訂閱 | MICROMEDEX 簡章 | 登出

Trisefla™2 IV 相容性 藥物 鑑定 藥物 產品查找 藥物 比較 計算器

輸入一个或多个搜索条件

SEARCH 範例搜尋

Atrial flutter

DISEASEDEX™

顯示整個文件

REFERENCES

1. Blomstrom A, et al. Supraventricular arrhythmias - a report of the American College of Cardiology/American Heart Association Task Force and the European Society of Cardiology Committee for Practice Guidelines (Writing Committee to Develop Guidelines for the Management of Patients with Supraventricular Arrhythmias) Developed in collaboration with NASPE-Heart Rhythm Society. Eur Heart J 2003; 24(20):1-62.

2. Mehta AV & Ewing LL: Atrial tachycardia in infants and children: electrocardiographic classification and its significance. Pediatr Cardiol 1993; 14:199-203.

3. Haro LH, Hess EP, & Decker VW: Arrhythmias in the office. Med Clin North Am 2006; 90(3):417-38. PubMed Abstract: http://www.ncbi.nlm.nih.gov/... PubMed Article: http://www.ncbi.nlm.nih.gov/...

4. Neumar RW, Otto CW, Link MS, et al. 2010 American Heart Association guidelines for cardiopulmonary resuscitation and emergency cardiovascular care. Part 8: adult advanced cardiovascular life support. Circulation 2010; 122(18 Suppl 3):S729-S767.

5. Product Information: verapamil hcl injection, verapamil hcl injection. American Regent Inc, Shirley, NY, 2003.

6. AHA/ILCOR Guidelines: American Heart Association in collaboration with the International Liaison Committee on Resuscitation. Guidelines 2000 for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care: an international consensus on science. Circulation 2000; 102:11-1384.

MEDEX® 2.0 | 移動

我的訂閱 | MICROMEDEX 簡章 | 登出

Trisefla™2 IV 相容性 藥物 鑑定 藥物 產品查找 藥物 比較 計算器

範例搜尋

Simply type any term, phrase, or question into the search box that is available on every page to get to the information you want. Micromedex is designed to work like familiar search engines and deliver results in a clean, uncluttered interface.

Create focused searches with:

- A single term (such as a drug, condition, or laboratory test name)
- Multiple terms (such as two drugs, or a drug and a condition)
- A simple question

範例搜尋:

Single term search	Multiple Term Search	Search with a Question
carvedilol	carvedilol atrial fibrillation	what is the dosing for carvedilol
naproxen	osteoarthritis naproxen	what is FDA approved for osteoarthritis
pancreatitis	dementia Parkinson's disease	what is fda approved for alopecia
chlorothiazide	TSH level goiter	what is the treatment for hypertension

Typically, the more information you can provide, the faster we can move you directly to the answer to your question. Not all questions have a direct link to a topic in our data, but all searches should return results that are relevant.

列印 關閉

6. AHA/ILCOR Guidelines: American Heart Association in collaboration with the International Liaison Committee on Resuscitation. Guidelines 2000 for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care: an international consensus on science. Circulation 2000; 102:11-1384.

搜尋詞彙	搜尋範例
劑量	劑量 + 藥物 <ul style="list-style-type: none"> 異丙酚(propofol)劑量 巴利昔单抗(basiliximab)劑量 米諾地爾(minoxidil)劑量為多少
療程 (療法)	療程 + 藥物 <ul style="list-style-type: none"> 艾斯索匹克隆(eszopiclone)療程 結核菌素(capreonycin)治療
病因	病因 + 藥物 + 條件 <ul style="list-style-type: none"> 多西紫杉醇(docetaxel)造成對指甲的損害
FDA-核准-標籤(FDA-核准)	FDA-核准-標籤+ 藥物 FDA-核准-標籤+ 條件 + 藥物 <ul style="list-style-type: none"> 核准 苯佐那酯(benzonatate) 舒馬普坦(sumatriptan)FDA核准 標籤用藥 利妥昔單抗(rituximab)為類風濕關節炎(rheumatoid arthritis)核准用藥 東莨菪鹼(Scopolamine)為FDA-核准-的暈車用藥
非FDA-核准-標籤(非FDA-核准)	非FDA-核准-標籤+ 條件 + 藥物 <ul style="list-style-type: none"> 非FDA-核准-標籤用藥: 術後傷口感染過氧化苯 (benzoyl peroxide) 專門治療過度分泌唾液的東莨菪鹼為非FDA-核准-標籤用藥
藥物作用	藥物作用 + 藥物 <ul style="list-style-type: none"> 鹽酸胺碘酮(amiodarone)的藥物作用

1. 5-Fu v.s C-meta
2. KCL

配伍禁忌或安定性為例

5-Fu v.s C-meta (cekunme)

Home - MICROMEDEX® 2.0 - Windows Internet Explorer

檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)

轉換 - 選擇

MICROMEDEX® 2.0 | 移動

我的訂閱 | MICROMEDEX 簡述

工具: 藥物相互作用 | Trisess's™2 IV 相容性 | 藥物鑒定 | Tox 和藥物產品查找 | 藥物比較 | 計算器

fluoroura SEARCH 範例搜尋

Fluorouracil
Adverse reaction to fluorouracil
Poisoning by fluorouracil
Sensitivity to fluorouracil toxicity

IV Compatibility search - MICROMEDEX® 2.0 - Windows Internet Explorer

檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)

轉換 - 選擇

MICROMEDEX® 2.0 | 移動

我的訂閱 | MICROMEDEX 簡述 | 登出

工具: 藥物相互作用 | Trisess's™2 IV 相容性 | 藥物鑒定 | Tox 和藥物產品查找 | 藥物比較 | 計算器

输入一个或多个搜索条件 SEARCH 範例搜尋

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。

輸入搜尋詞:
fluor

相符的藥物名稱: (3)
Fluorescein
Fluorescein
Fluorouracil

要檢查的藥物:
要檢查的藥物:

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。

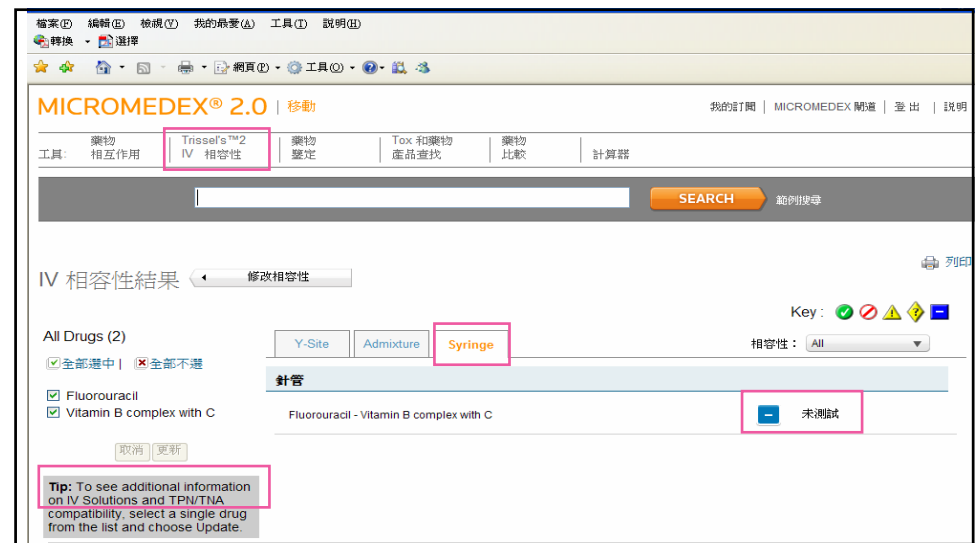
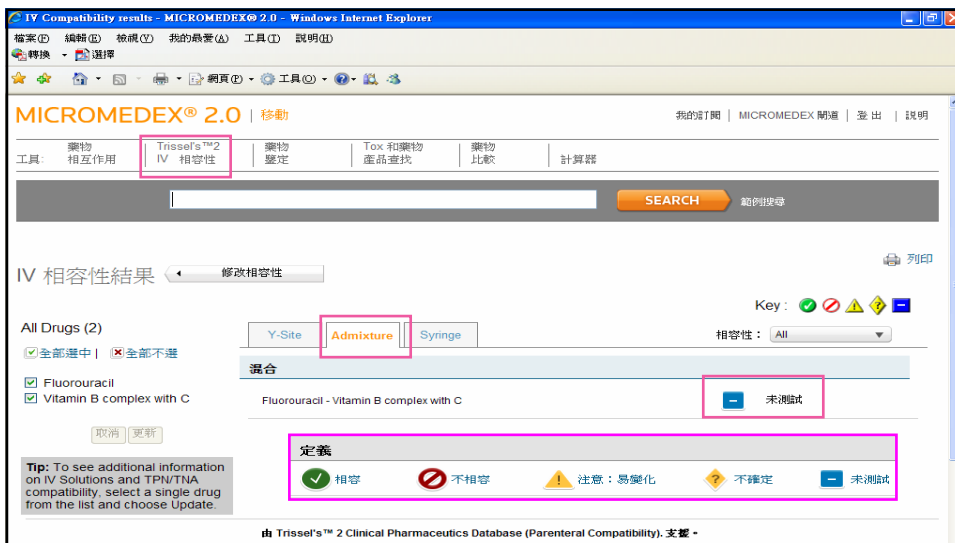
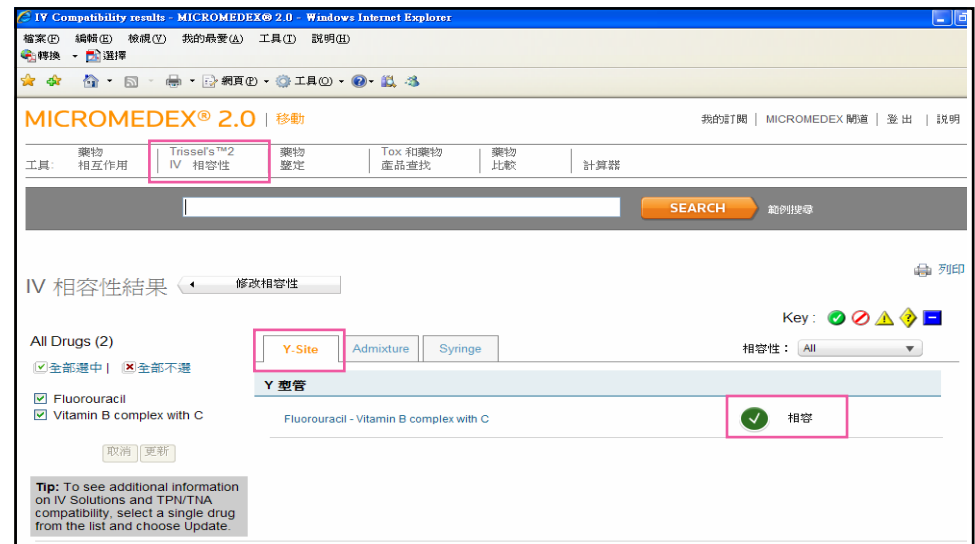
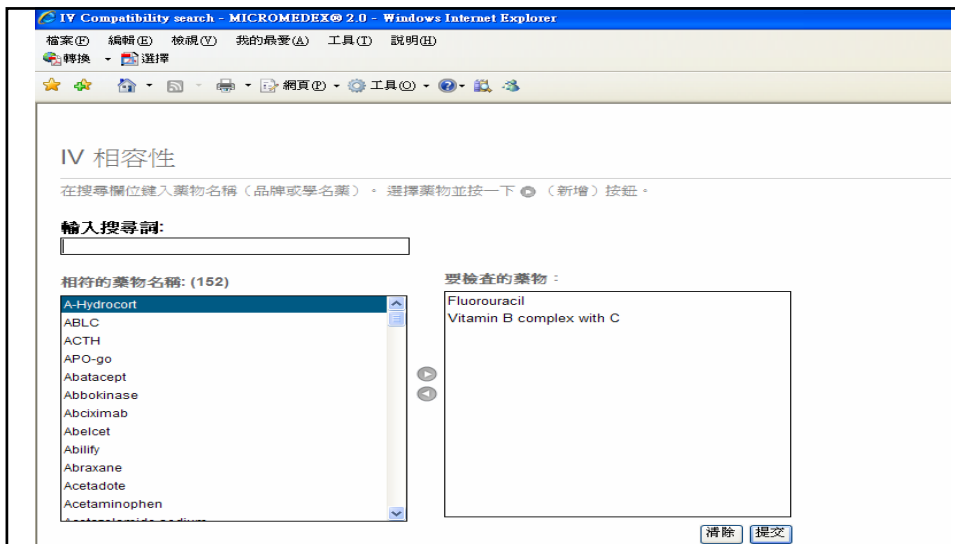
輸入搜尋詞:
vitamin

相符的藥物名稱: (5)
Vitamin A
Vitamin B complex
Vitamin B complex with C
Vitamin B1
Vitamin B12

要檢查的藥物:
Fluorescein

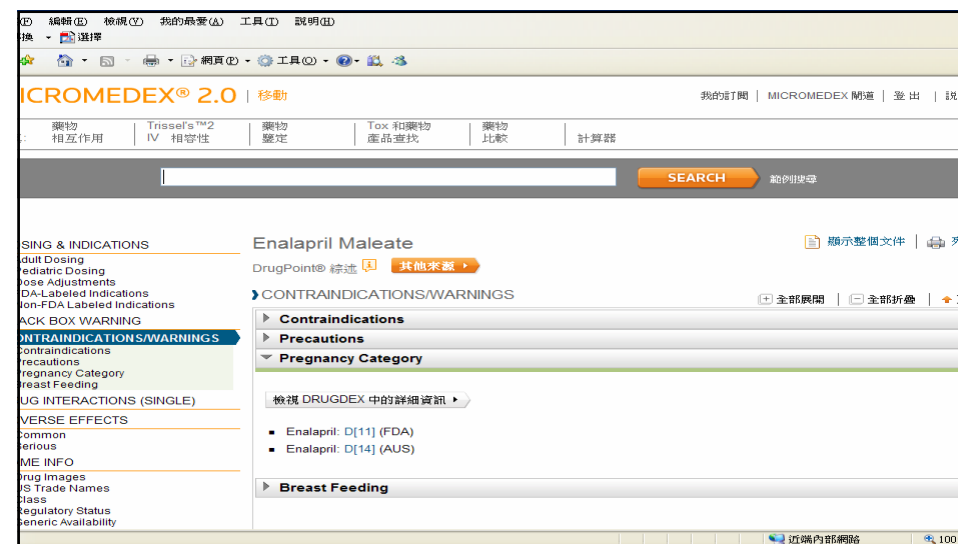
商品名: Cekume (c-meta) 2 mL/Amp
Contents/Amp:
B1 10 mg,
B2 2 mg,
B6 2 mg,
Niacinamide 10 mg,
C 50 mg.

清除 提交





懷孕用藥分級



Drug Consult - Rosuvastatin Calcium

輸入一個或多個搜索條件 SEARCH 範例搜尋

SING & INDICATIONS

Adult Dosing
Pediatric Dosing
Dose Adjustments
FDA-Labelled Indications
Non-FDA Labelled Indications

CONTRAINDICATIONS/WARNINGS

Contraindications
Precautions
Pregnancy Category
Breast Feeding

DRUG INTERACTIONS (SINGLE)

ADVERSE EFFECTS

Common
Serious

ME INFO

Drug Images
US Trade Names
Class
Regulatory Status
Generic Availability

MECHANISM OF ACTION/PHARMACOKINETICS

ADMINISTRATION/MONITORING

HOW SUPPLIED

PHARMACOLOGY

顯示整個文件 | 列印

全部展開 | 全部折疊 | 頁數

檢視 DRUGDEX 中的詳細資訊

Rosuvastatin: X[7] (FDA)
Rosuvastatin: D[8] (AUS)

Breast Feeding

近端內部網路 100%

Drug Consult - Rosuvastatin Calcium

輸入一個或多個搜索條件 SEARCH 範例搜尋

CONTRAINDICATIONS

Precautions
Adverse Reactions
Teratogenicity/Effects in pregnancy/Breastfeeding
Drug Interactions

INITIAL APPLICATIONS

Monitoring Parameters
Patient Instructions
Place In Therapy
Mechanism of Action / Pharmacology
Therapeutic Uses
Comparative Efficacy / Evaluation With Other Therapies

REFERENCES

Teratogenicity/Effects in Pregnancy/Breastfeeding

A) Teratogenicity/Effects in Pregnancy

1) U.S. Food and Drug Administration's Pregnancy Category: Category X (All Trimesters)

a) Studies in animals or human beings have demonstrated fetal abnormalities or there is evidence of fetal risk based on human experience or both, and the risk of the use of the drug in pregnant women clearly outweighs any possible benefit. The drug is contraindicated in women who are or may become pregnant.

2) Australian Drug Evaluation Committee's (ADEC) Category: D

a) Drugs which have caused, are suspected to have caused, or may be expected to cause an increased incidence of human fetal malformations or irreversible damage. These drugs may also have adverse pharmacological effects. Accompanying texts should be consulted for further details.

See Drug Consult reference: [PREGNANCY RISK CATEGORIES](#)

3) Crosses Placenta: Yes

4) Clinical Management

a) Due to the potential for HMG-CoA reductase inhibitors to interfere with the cholesterol biosynthesis pathway and other biologically active products that are essential to fetal development, rosuvastatin may cause fetal harm when administered during pregnancy. Therefore, use of rosuvastatin in women who are or may become pregnant is contraindicated. In the event of pregnancy while taking rosuvastatin, instruct the patient to discontinue the drug immediately and apprise her of the potential hazard to the fetus and the lack of known clinical benefit in continuing treatment during pregnancy [106].

5) Literature Reports

a) The incidence of major birth defects, neonatal health problems, and pregnancy outcomes (ie, live birth, stillbirth, spontaneous or therapeutic abortion) did not differ significantly, but gestational age at birth and birthweight did differ significantly between 64 pregnant women exposed to a statin (atorvastatin (n=46), simvastatin (n=9), pravastatin (n=6), and rosuvastatin (n=3)) and 64 pregnant women not exposed to any known teratogens during the first trimester in a prospective, cohort study. Major birth defects were reported in 2.2% and 1.9% of the statin and control groups, respectively (p=0.93). The rate of neonatal health problems was 15.2% in the statin group and 9.6% in the control group, respectively (p=0.4). There were no significant differences between the statin and control groups in rate of live birth (71.9% vs 81.2%; p=0.21).

近端內部網路 100%

Drug Consult - CALCITONIN

輸入一個或多個搜索條件 SEARCH 範例搜尋

OVERVIEW

SING INFORMATION

Drug Properties
Storage and Stability
Adult Dosage
Pediatric Dosage

PHARMACOKINETICS

Onset and Duration
Drug Concentration Levels
DME

CONTRAINDICATIONS/WARNINGS

Contraindications
Precautions
Adverse Reactions
Teratogenicity/Effects in pregnancy/Breastfeeding

INITIAL APPLICATIONS

Monitoring Parameters
Patient Instructions
Place In Therapy
Mechanism of Action / Pharmacology
Therapeutic Uses
Comparative Efficacy / Evaluation With Other Therapies

REFERENCES

顯示整個文件 | 列印

全部展開 | 全部折疊 | 頁數

檢視 DRUGDEX 中的詳細資訊

Calcitonin: X[7] (FDA)
Calcitonin: D[8] (AUS)

Teratogenicity/Effects in Pregnancy/Breastfeeding

A) Teratogenicity/Effects in Pregnancy

1) U.S. Food and Drug Administration's Pregnancy Category: Category C (All Trimesters)

a) Either studies in animals have revealed adverse effects on the fetus (teratogenic or embryocidal or other) and there are no controlled studies in women or studies in women and animals are not available. Drugs should be given only if the potential benefit justifies the potential risk to the fetus.

2) Australian Drug Evaluation Committee's (ADEC) Category: B2

a) Drugs which have been taken by only a limited number of pregnant women and women of childbearing age, without an increase in the frequency of malformation or other direct or indirect harmful effects on the human fetus having been observed. Studies in animals are inadequate or may be lacking, but available data show no evidence of an increased occurrence of fetal damage.

See Drug Consult reference: [PREGNANCY RISK CATEGORIES](#)

3) Crosses Placenta: No

4) Clinical Management

a) There is no data on the use of calcitonin in pregnant women. According to manufacturer labeling, calcitonins are unable to cross the placental barrier [66][89].

5) Literature Reports

近端內部網路 100%

Drug Consult - MICROMEDEX 2.0 - Windows Internet Explorer

輸入一個或多個搜索條件 SEARCH 範例搜尋

PREGNANCY RISK CATEGORIES

藥物諮詢 | 頁首

RESPONSE

Labeling of some prescription drugs includes information about the level of risk for the fetus and the extent of caution necessary in their use. The FDA has established five categories (A, B, C, D, and X) to indicate a drug's potential for causing teratogenicity. This format was first announced in the September 1979 FDA Drug Bulletin. Because of labeling revisions, many products now use this format [1][2]. A similar, but somewhat expanded, classification system was adopted by the Australian Drug Evaluation Committee (ADEC) in 1989 [3]. The Thomson Pregnancy Risk Category rating is derived from the clinical review of published primary literature reports and is independent of the FDA or the ADEC ratings. The FDA, ADEC, and Thomson pregnancy category definitions are outlined below.

Table 1. US FDA Pregnancy Category Definitions

A) Controlled studies in women fail to demonstrate a risk to the fetus in the first trimester (and there is no evidence of a risk in later trimesters), and the possibility of fetal harm appears remote.

B) Either animal-reproduction studies have not demonstrated a fetal risk but there are no controlled studies in pregnant women or animal-reproduction studies have shown adverse effect (other than a decrease in fertility) that was not confirmed in controlled studies in women in the first trimester (and there is no evidence of a risk in later trimesters).

C) Either studies in animals have revealed adverse effects on the fetus (teratogenic or embryocidal or other) and there are no controlled studies in women or studies in women and animals are not available. Drugs should be given only if the potential benefit justifies the potential risk to the fetus.

D) There is positive evidence of human fetal risk, but the benefits from use in pregnant women may be acceptable despite the risk (e.g., if the drug is needed in a life-threatening situation or for a serious disease for which safer drugs cannot be used or are ineffective).

X) Studies in animals or human beings have demonstrated fetal abnormalities or there is evidence of fetal risk based on human experience or both, and the risk of the use of the drug in pregnant women clearly outweighs any possible benefit. The drug is contraindicated in women who are or may become pregnant.

Drug Consult - MICROMEDEX 2.0 - Windows Internet Explorer

檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)

轉換 選擇

網頁(I) 工具(O) 7

PREGNANCY RISK CATEGORIES

藥物諮詢

Fetal risk is minimal.	The weight of an adequate body of evidence suggests this drug poses minimal risk when used in pregnant women or women of childbearing potential.
Fetal risk cannot be ruled out.	Available evidence is inconclusive or is inadequate for determining fetal risk when used in pregnant women or women of childbearing potential. Weigh the potential benefits of drug treatment against potential risks before prescribing this drug during pregnancy.
Fetal risk has been demonstrated.	Evidence has demonstrated fetal abnormalities or risks when used during pregnancy or in women of childbearing potential. An alternative to this drug should be prescribed during pregnancy or in women of childbearing potential.

A	Drugs which have been taken by a large number of pregnant women and women of childbearing age without any proven increase in the frequency of malformations or other direct or indirect harmful effects on the fetus having been observed.
B1	Drugs which have been taken by only a limited number of pregnant women and women of childbearing age, without an increase in the frequency of malformation or other direct or indirect harmful effects on the human fetus having been observed. Studies in animals have not shown evidence of an increased occurrence of fetal damage.
B2	Drugs which have been taken by only a limited number of pregnant women and women of childbearing age, without an increase in the frequency of malformation or other direct or indirect harmful effects on the human fetus having been observed. Studies in animals are inadequate or may be lacking, but available data show no evidence of an increased occurrence of fetal damage.
B3	Drugs which have been taken by only a limited number of pregnant women and women of childbearing age, without an increase in the frequency of malformation or other direct or indirect harmful effects on the human fetus having been observed. Studies in animals have shown evidence of an increased occurrence of fetal damage, the significance of which is considered uncertain in humans.
C	Drugs which, owing to their pharmacological effects, have caused or may be suspected of causing harmful effects on the human fetus or neonate without causing malformations. These effects may be reversible. Accompanying texts should be consulted for further details.
D	Drugs which have caused, are suspected to have caused, or may be expected to cause an increased incidence of human fetal malformations or irreversible damage. These drugs may also have adverse pharmacological effects. Accompanying texts should be consulted for further details.
X	Drugs that have such a high risk of causing permanent damage to the fetus that they should not be used in pregnancy or when there is a possibility of pregnancy.

A	Drugs which have been taken by a large number of pregnant women and women of childbearing age without any proven increase in the frequency of malformations or other direct or indirect harmful effects on the fetus having been observed.
B1	Drugs which have been taken by only a limited number of pregnant women and women of childbearing age, without an increase in the frequency of malformation or other direct or indirect harmful effects on the human fetus having been observed. Studies in animals have not shown evidence of an increased occurrence of fetal damage.
B2	Drugs which have been taken by only a limited number of pregnant women and women of childbearing age, without an increase in the frequency of malformation or other direct or indirect harmful effects on the human fetus having been observed. Studies in animals are inadequate or may be lacking, but available data show no evidence of an increased occurrence of fetal damage.
B3	Drugs which have been taken by only a limited number of pregnant women and women of childbearing age, without an increase in the frequency of malformation or other direct or indirect harmful effects on the human fetus having been observed. Studies in animals have shown evidence of an increased occurrence of fetal damage, the significance of which is considered uncertain in humans.
C	Drugs which, owing to their pharmacological effects, have caused or may be suspected of causing harmful effects on the human fetus or neonate without causing malformations. These effects may be reversible. Accompanying texts should be consulted for further details.
D	Drugs which have caused, are suspected to have caused, or may be expected to cause an increased incidence of human fetal malformations or irreversible damage. These drugs may also have adverse pharmacological effects. Accompanying texts should be consulted for further details.
X	Drugs that have such a high risk of causing permanent damage to the fetus that they should not be used in pregnancy or when there is a possibility of pregnancy.

Animal studies submitted in support of new drug applications must conform to the Australian Guidelines on The Registration of Drugs - Volume 1, Prescription and Other Specified Drug Products, second edition.

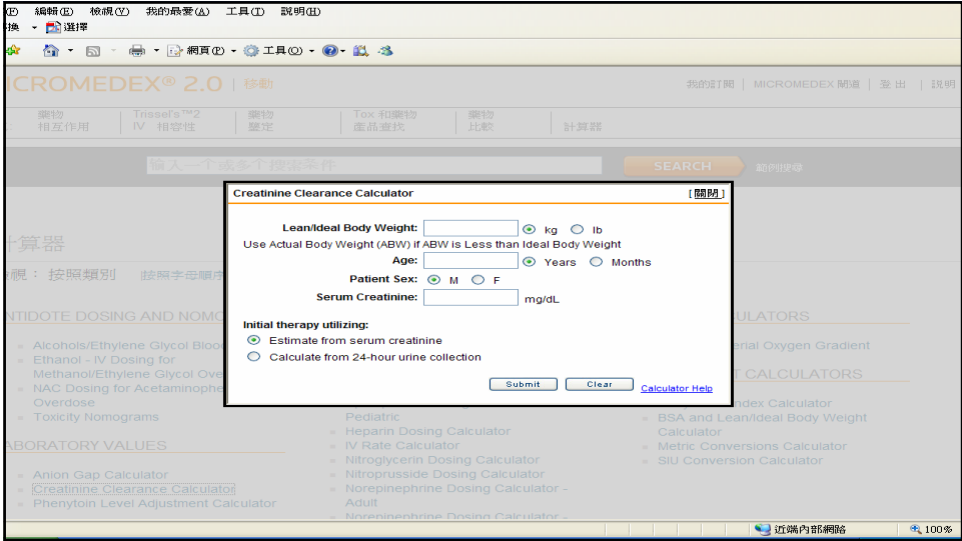
Note: For drugs in the B1, B2 and B3 categories, human data are lacking or inadequate and subcategorisation is therefore based on available animal data. The allocation of a B category does not imply greater safety than the C category. Drugs in category D are not absolutely contraindicated in pregnancy (eg, anticonvulsants). Moreover, in some cases the 'D' category has been assigned on the basis of suspicion.

In addition, labeling for drugs with a recognized use during labor or delivery, whether or not the use is stated in the INDICATIONS section of the labeling (eg, analgesics), describes the available information about the effect of the drug on the mother and fetus.

高醫的處方集

- 藥品懷孕分級：臨床使用、兒科學會、FDA、ADEC
- 自然畸胎的發生率估計約 2 - 3.5%
- A：有完整的實驗證實，對人類胎兒沒有危害。
- B：動物實驗顯示對胎兒沒有危害，但對人類胎兒的安全性缺乏足夠的證據；或對動物胎兒有危險，但對人類的研究未能證實此危險性。
- C：動物實驗顯示對胎兒有不良影響，但在人類還沒有充分的研究；或是在動物或人類都還沒有充分的研究。在治療效益超過可能的危險性時才建議使用。
- D：有充分的證據顯示對胎兒有危險性，只有在治療效益明顯超過危險性時才可使用。
- X：動物和人類實驗均顯示有危險性，其危險性明顯超過治療效益。禁止使用於孕婦。

計算器



劑量工具

ACLS/PALS 準則

按小兒科或成人體重(公斤或磅數), 這個計算器會顯示美國心臟協會ACLS/PALS/新生兒復甦的建議治療準則。

Dobutamine Dosing Calculator

按體重(公斤/磅)和初期劑量計算。結果以選擇方案的mcg/kg/min數為主。

Dopamine Dosing Calculator

按體重(公斤/磅)和初期劑量計算。結果以選擇方案的mcg/kg/min數為主。

Epinephrine Dosing Calculator – 成人

成人計算器以初期量和方案選訂濃度列出建議。

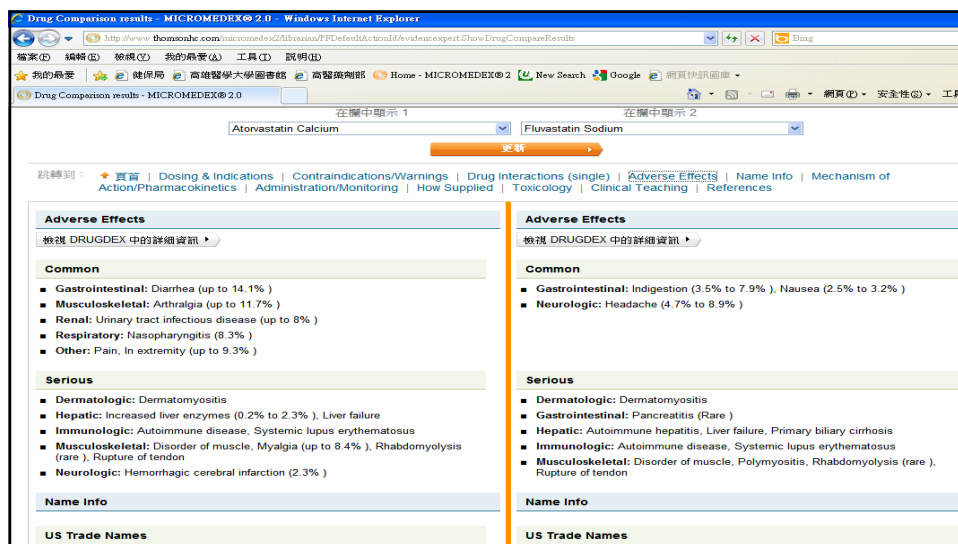
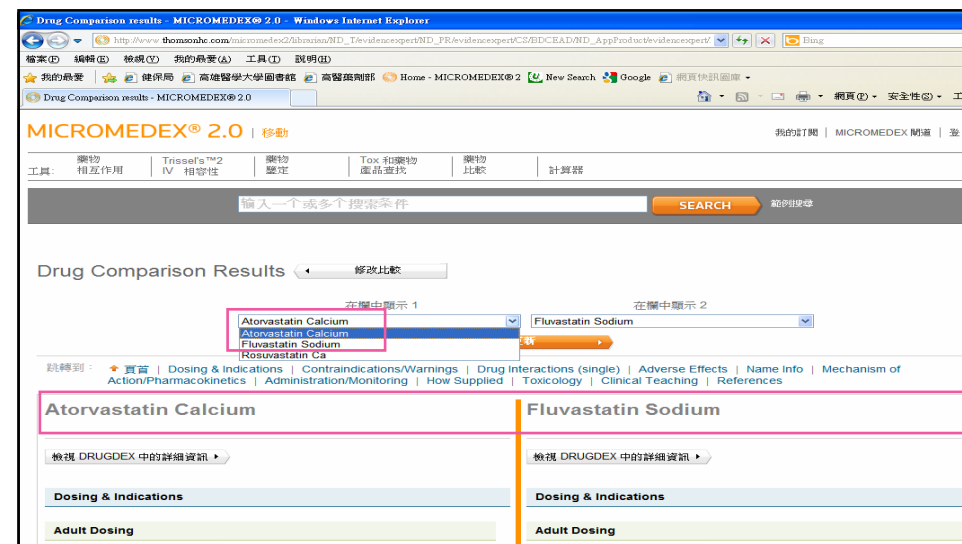
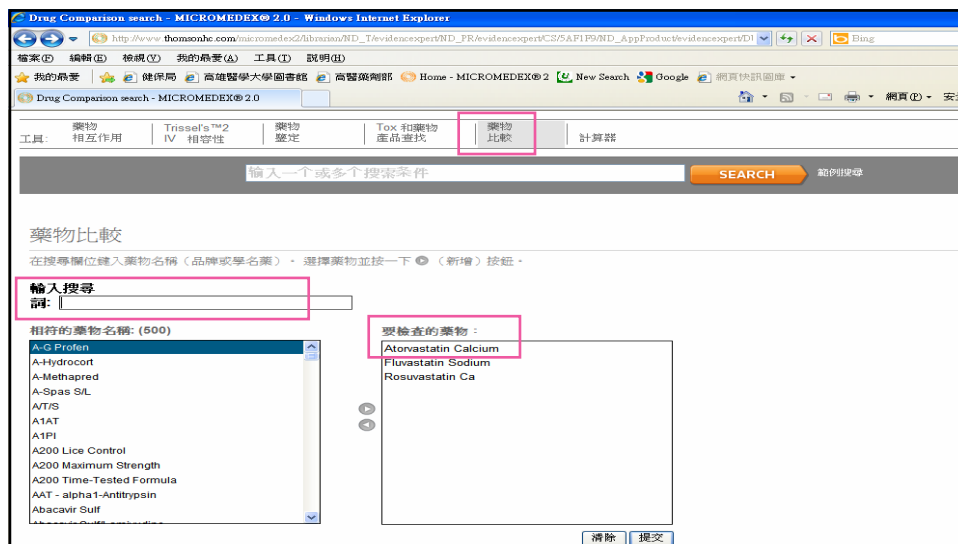
Epinephrine Dosing Calculator – 小兒科

小兒科專用計算器也以小兒科病患的體重(公斤/磅)為計算因子。

Heparin Dosing Calculator

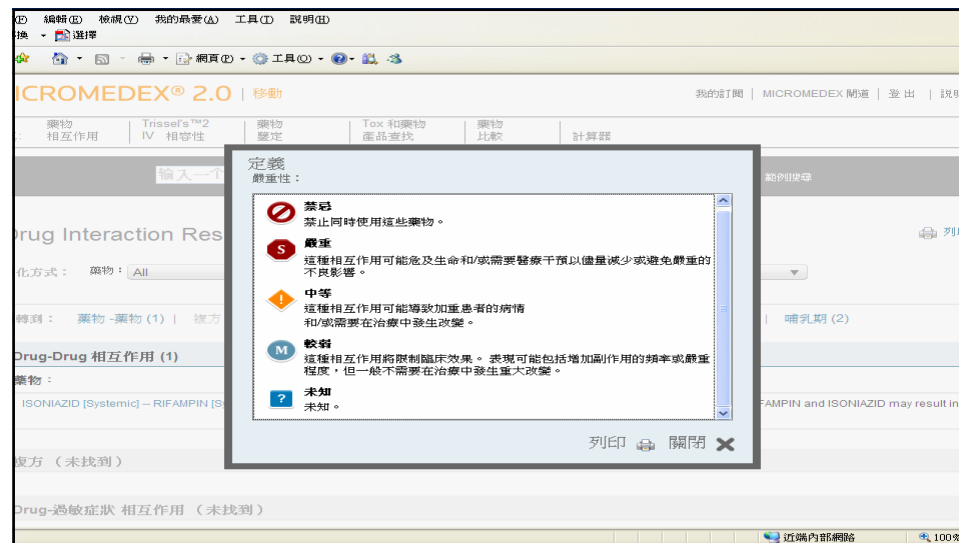
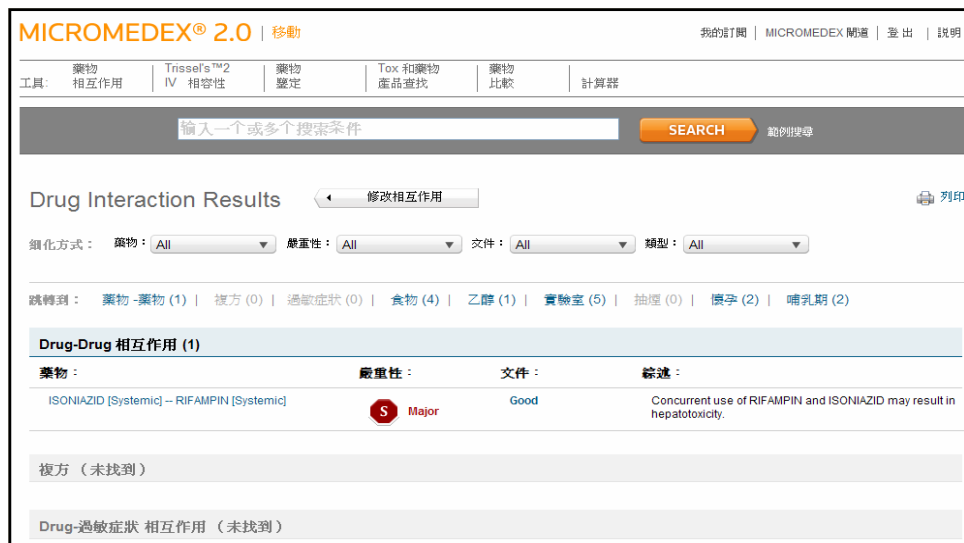
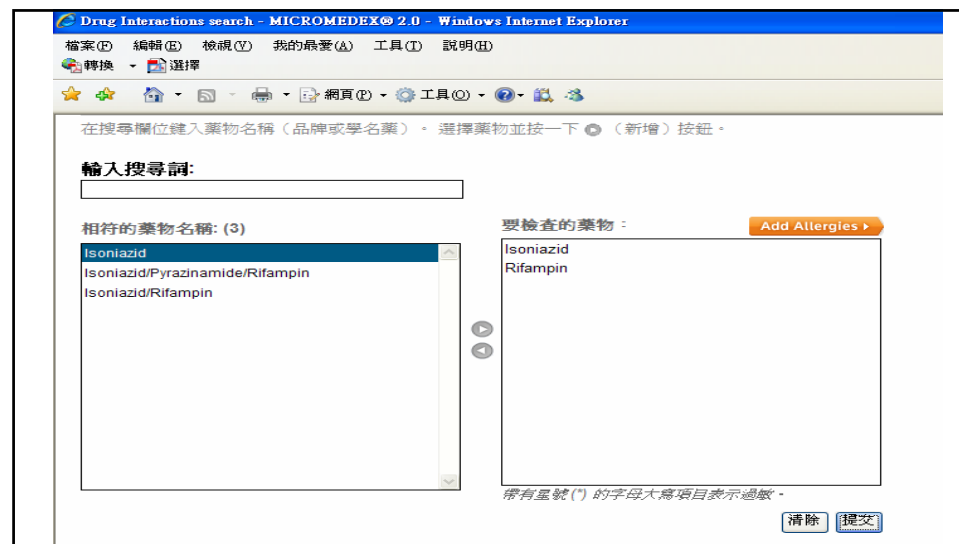
按照體重(公斤/磅)和毫升單位提出的建議。

藥物比較



Rifampin and Isoniazid

交互作用為例



INTERACTION DETAIL

Warning:

Concurrent use of RIFAMPIN and ISONIAZID may result in hepatotoxicity.

Clinical Management:

Isoniazid and rifampin

Clinical Management:

Isoniazid and rifampin are commonly used together for treatment of tuberculosis. Hepatic toxicity is possible with either agent and the risk may be increased when isoniazid and rifampin are used concomitantly. For patients on concurrent isoniazid and rifampin, monitor liver function tests, especially in children and in adults with predisposing risk factors. Monitor the patient for clinical symptoms of liver toxicity.

slow acetylator phenotyping for isoniazid is indicated as a likely cause of most (al, 1986; O'Brien, 1991). The metabolic mechanism (acetylation)

transaminase levels in individual patients. Uncommon side effects include streptomycin time (O'Brien)

References:

Beever IW, Blair IA & Brodie MJ: Circulating hydrazine during treatment with isoniazid. *Br J Clin Pharmacol* 1982; 13:599P.

Lal S, Singhal SN, Burley DM et al: Effect of rifampin and isoniazid on liver function. *Am J Med* 1981; 71:148-150.

O'Brien RJ: Hepatotoxic reaction to antituberculous drugs: adjustments to therapy. *Am J Med* 1991; 266:3323.

Pessayre D, Bentata M, Degott C et al: Isoniazid-rifampin fulminant hepatitis. A possible consequence of the enhancement of isoniazid hepatotoxicity by enzyme induction. *Am J Med* 1977; 72:284-289.

Raghupati Sarma G, Immanuel C, Kailasam S et al: Rifampin-induced release of

How To Use Drug Interaction Facts™

Significance Rating 1 2 3 4 5

A number 1 through 5 will be assigned to each interaction monograph, based on the Editorial Group's assessment of the interaction's Severity and Documentation (defined below).

1 is a severe and well-documented interaction.
5 is an interaction of no more than unlikely or possible documentation.
The formula for these number ratings is given in the following table:

Significance Rating	Severity	Documentation
1	Major	Suspected or >
2	Moderate	Suspected or >
3	Minor	Suspected or >
4	Major/Moderate	Possible
5	Minor	Possible
	Any	Unlikely

Onset
How rapidly the clinical effects of an interaction can occur determines the urgency with which preventive measures should be instituted to avoid the consequences of the interaction. Two levels of onset are used:

Rapid: The effect will be evident within 24 hours of administration of the interacting drug. Immediate action is necessary to avoid the effects of the interaction.

Delayed: The effect will not be evident until the interacting drug is administered for a period of days or weeks. Immediate action is not required.

Severity
The potential severity of the interaction is particularly important in assessing the risk vs benefit of therapeutic alternatives. With appropriate dosage adjustments or modification of the administration schedule, the negative effects of most interactions can be avoided. Three degrees of severity are defined:

Major: The effects are potentially life-threatening or capable of causing permanent damage.

Moderate: The effects may cause a deterioration in a patient's clinical status. Additional treatment, hospitalization, or an extended hospital stay may be necessary.

Minor: The effects are usually mild; consequences may be bothersome or uncomfortable but should not significantly affect the therapeutic outcome. Additional treatment is usually not required.

Documentation
Documentation determines the degree of confidence that an interaction can cause an altered clinical response. This scale represents the Editorial Group's evaluation of the quality and clinical relevance of the primary literature supporting the occurrence of an interaction. However, multiple factors can influence whether

How To Use Drug Interaction Facts™

even a well-documented interaction occurs in a particular patient. The documentation does not address the incidence or frequency of the interaction. It is also independent of the potential severity of the effect of the interaction.

The following guidelines are used to establish the five Documentation levels:

Established: Proven to occur in well-controlled studies.

- A pharmacokinetic effect has been demonstrated in well-controlled human studies ... or ...
- A pharmacokinetic interaction has been demonstrated in well-controlled human studies. An altered pharmacologic response is expected based on the magnitude of the kinetic effect; clinical observations support the occurrence of the interaction.

Probable: Very likely but not proven clinically.

- A pharmacokinetic interaction has been demonstrated in well-controlled studies. Based on the magnitude of the kinetic changes and the known plasma level-response relationship of the affected drug, an altered pharmacologic response will probably occur ... or ...
- When controlled human experimentation is impractical, well-designed animal experiments confirm an interaction that is suggested by multiple case reports or uncontrolled studies.

Suspected: May occur; some good data; needs more study.

- A pharmacokinetic interaction has been demonstrated in well-controlled studies. Although an altered pharmacologic response might be expected to occur based on the magnitude of the kinetic changes, no firm conclusion can be drawn because a plasma level-response relationship has not been established for the affected drug ... or ...
- An altered pharmacologic response has been reported in multiple case reports or repeated uncontrolled clinical studies.

Possible: Could occur, but data are very limited.

- Although a pharmacokinetic interaction has been demonstrated, the kinetic changes are of such magnitude that it is not possible to predict if an altered response will occur ... or ...
- The evidence is divided as to whether an interaction exists ... or ...
- An altered pharmacologic response is suggested by limited data.

Unlikely: Doubtful; no good evidence of an altered clinical effect.

- A pharmacokinetic interaction has been demonstrated, however, based on the magnitude of kinetic change, a pharmacologic alteration is unlikely ... or ...
- The bulk of documentation is of poor quality or does not favor the existence of an interaction.
- In spite of reports of an interaction, well-controlled studies refute the existence of a clinically relevant interaction.

Drug interactions assigned Documentation levels of "Established," "Probable," or "Suspected" are reasonably well substantiated and have a significance rating of "1," "2," or "3." It is the opinion of the Editorial Group that these interactions have a reasonable probability of occurring.

Drug interactions assigned a Significance Rating of "4" or "5" have a Documentation level of "Possible" or "Unlikely" and are not substantiated. Because there is insufficient evidence supporting the existence of a clinically relevant interaction, prospective screening is probably not warranted. If an unsuspected effect occurs, the information in these monographs will be useful in reviewing what is known about those potential interactions.

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Effects
Information concerning the pharmacologic effects of the interaction (eg, "the anticoagulant effects of oral anticoagulants are increased") and the clinical findings (eg, "possibly with bleeding") is included in this section. The interaction may lead to symptoms of drug toxicity or loss of therapeutic efficacy of one or both drugs. In some instances, the interacting combination will lead to effects that are unexpected based on the pharmacology of either drug. The interactive potential of certain drug combinations may persist up to several days after one of the interacting drugs has been discontinued. Information concerning the duration of interactive potential is included in this section.

Mechanism
A brief description of the pharmacodynamic (eg, "decreased receptor sensitivity") or pharmacokinetic (eg, "decreased metabolism") mechanism by which an interacting drug affects the action of another drug is provided in this section.

Management
This section provides clinical management suggestions (eg, "may need a lower anticoagulant dose" or "give tetracycline at least 1 hour before antibiotic") so that the clinician can properly manage an interacting drug combination to prevent potential detrimental effects. Monitoring parameters are included when appropriate. Alternative therapy suggestions are provided when possible. Because of patient-, disease-, and drug-related variables, it is frequently impossible to provide specific management recommendations. Modification or alteration of the therapeutic regimen must be based on the practitioner's clinical assessment of each individual situation.

Discussion
A brief review and assessment of the studies used to document the interaction are provided to promote a better understanding of the incidence and magnitude of the interaction (eg, "in a controlled study of 6 patients, 5 developed severe hemorrhagic complications").

References
The principal references documenting the interaction are listed at the end of each monograph following the discussion. With few exceptions, only primary reference sources are used.

How To Use Drug Interaction Facts™

even a well-documented interaction occurs in a particular patient. The documentation does not address the incidence or frequency of the interaction. It is also independent of the potential severity of the effect of the interaction.

The following guidelines are used to establish the five Documentation levels:

Established: Proven to occur in well-controlled studies.

- A pharmacokinetic effect has been demonstrated in well-controlled human studies ... or ...
- A pharmacokinetic interaction has been demonstrated in well-controlled human studies. An altered pharmacologic response is expected based on the magnitude of the kinetic effect; clinical observations support the occurrence of the interaction.

Probable: Very likely but not proven clinically.

- A pharmacokinetic interaction has been demonstrated in well-controlled studies. Based on the magnitude of the kinetic changes and the known plasma level-response relationship of the affected drug, an altered pharmacologic response will probably occur ... or ...
- When controlled human experimentation is impractical, well-designed animal experiments confirm an interaction that is suggested by multiple case reports or uncontrolled studies.

Suspected: May occur; some good data; needs more study.

- A pharmacokinetic interaction has been demonstrated in well-controlled studies. Although an altered pharmacologic response might be expected to occur based on the magnitude of the kinetic changes, no firm conclusion can be drawn because a plasma level-response relationship has not been established for the affected drug ... or ...
- An altered pharmacologic response has been reported in multiple case reports or repeated uncontrolled clinical studies.

Possible: Could occur, but data are very limited.

- Although a pharmacokinetic interaction has been demonstrated, the kinetic changes are of such magnitude that it is not possible to predict if an altered response will occur ... or ...
- The evidence is divided as to whether an interaction exists ... or ...
- An altered pharmacologic response is suggested by limited data.

Unlikely: Doubtful; no good evidence of an altered clinical effect.

- A pharmacokinetic interaction has been demonstrated, however, based on the magnitude of kinetic change, a pharmacologic alteration is unlikely ... or ...
- The bulk of documentation is of poor quality or does not favor the existence of an interaction.
- In spite of reports of an interaction, well-controlled studies refute the existence of a clinically relevant interaction.

Drug interactions assigned Documentation levels of "Established," "Probable," or "Suspected" are reasonably well substantiated and have a significance rating of "1," "2," or "3." It is the opinion of the Editorial Group that these interactions have a reasonable probability of occurring.

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How To Use Drug Interaction Facts™

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C

Monitor Therapy

Data demonstrate that the specified agents may interact with each other in a clinically significant manner. The benefits of concomitant use of these two medications usually outweigh the risks. An appropriate monitoring plan should be implemented to identify potential negative effects. Dosage adjustments of one or both agents may be needed in a minority of patients.

•Add another item(s) [Lookup] to Analyze for potential interactions between items in the list.

•Remove item from the list by clicking the check mark next to the item name.

Disclaimer

Readers are advised that decisions regarding drug therapy must be based on the independent judgment of the clinician, changing information about a drug (eg, as reflected in the literature and manufacturer's most current product information), and changing medical practices

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Lookup

Enter item name to lookup.

AnalyzeNew List

☒ Isoniazid

☒ Rifampin

•Display complete list of interactions for an individual item by clicking item name.

•Add another item(s) [Lookup] to Analyze for potential interactions between items in the list.

•Remove item from the list by clicking the check mark next to the item name.

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Interaction Monograph Field Information

Title: Designates the agents or agent groups (categories) involved in the described interaction. The members of an agent category are listed in the Interacting Members section of the monograph.

Risk Rating: Rapid indicator regarding how to respond to the interaction data. Each Interact monograph is assigned a risk rating of A, B, C, D, or X. The progression from A to X is accompanied by increased urgency for responding to the data. In general, A and B monographs are of academic, but not clinical concern. Monographs rated C, D, or X always require the user's attention. The text of the Patient Management section of the monographs will provide assistance regarding the types of actions that could be taken. The definition of each risk rating is as follows:

Risk Rating	Action	Description
A	No Known Interaction	Data have not demonstrated either pharmacodynamic or pharmacokinetic interactions between the specified agents
B	No Action Needed	Data demonstrate that the specified agents may interact with each other, but there is little to no evidence of clinical concern resulting from their concomitant use.
C	Monitor Therapy	Data demonstrate that the specified agents may interact with each other in a clinically significant manner. The benefits of concomitant use of these two medications usually outweigh the

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C	Monitor Therapy	Data demonstrate that the specified agents may interact with each other in a clinically significant manner. The benefits of concomitant use of these two medications usually outweigh the risks. An appropriate monitoring plan should be implemented to identify potential negative effects. Dosage adjustments of one or both agents may be needed in a minority of patients.
D	Consider Therapy Modification	Data demonstrate that the two medications may interact with each other in a clinically significant manner. A patient-specific assessment must be conducted to determine whether the benefits of concomitant therapy outweigh the risks. Specific actions must be taken in order to realize the benefits and/or minimize the toxicity resulting from concomitant use of the agents. These actions may include aggressive monitoring, empiric dosage changes, choosing alternative agents.
X	Avoid Combination	Data demonstrate that the specified agents may interact with each other in a clinically significant manner. The risks associated with concomitant use of these agents usually outweigh the benefits. These agents are generally considered contraindicated.

Summary: A statement qualifying the nature of the interaction(s) detailed in the monograph.

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•Remove item from the list by clicking the check mark next to the item name.

Summary: A statement qualifying the nature of the interaction(s) detailed in the monograph. This statement may be followed by an indication of outcome severity and/or onset for an unmanaged interaction. Severity indicators include: Minor (effects would be considered tolerable in most cases □ no need for medical intervention); Moderate (medical intervention needed to treat effects; effects do not meet criteria for Major); and Major (effects may result in death, hospitalization, permanent injury, or therapeutic failure. Onset indicators describe the anticipated elapsed time from therapy initiation to adverse event, and include: Immediate (0 □ 12 hours); Rapid (12 □ 72 hours); and Delayed (More than 72 hours); A Yes/No indication regarding whether or not agent administration sequence is important may be included as well. The Reliability Rating provides an indication regarding the volume and nature of reports used to create the interaction monograph. Ratings include EXCELLENT (multiple RCTs; OR single RCT plus ≥2 case reports), GOOD (single RCT plus < 2 case reports), FAIR (> 2 case reports; OR < 2 case reports plus other supporting data; OR a theoretical interaction based on known pharmacology), and POOR (< 2 case reports with no other supporting data). NOTE: RCT = randomized, controlled clinical trial, OR controlled, multi-patient pharmacokinetic study.

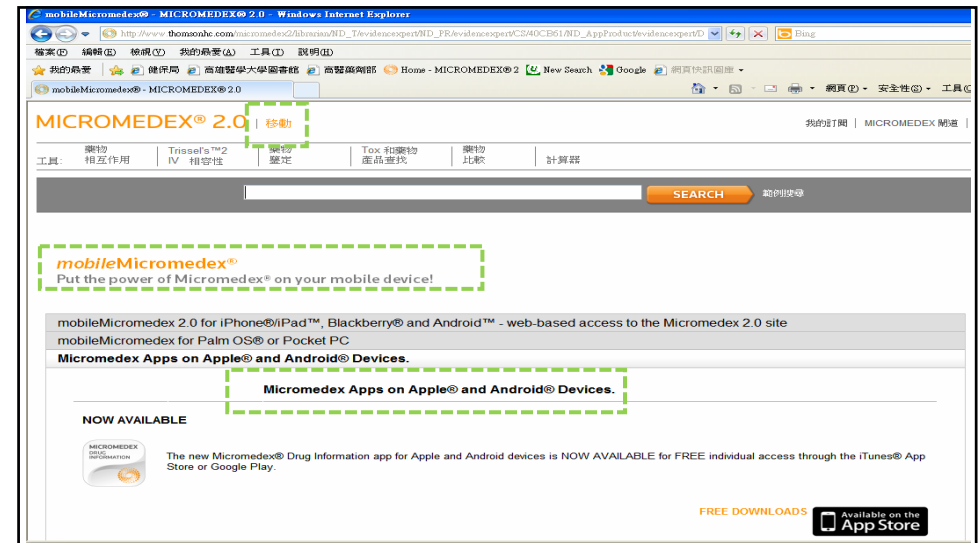
Patient Management: Recommended action steps for preventing adverse outcomes resulting from an anticipated drug interaction. Note: a patient-specific risk/benefit assessment must always be employed.

Interacting Category Members: A listing of the agents contained within a specified interacting category. Agents marked with an □ have been specifically identified in the published reports described in the Discussion section. Non-interacting category members are noted as □Exceptions□

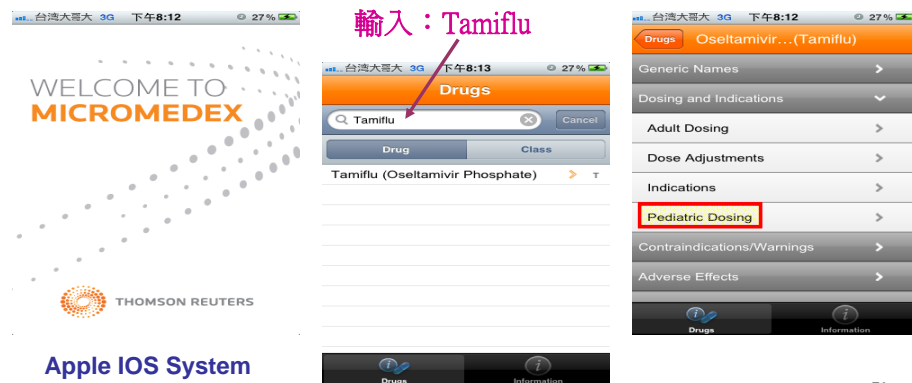
Discussion: A brief presentation of published data pertaining to the observed/presumed interaction

Footnotes: Complete medical literature citations for the data contained in the Discussion section.

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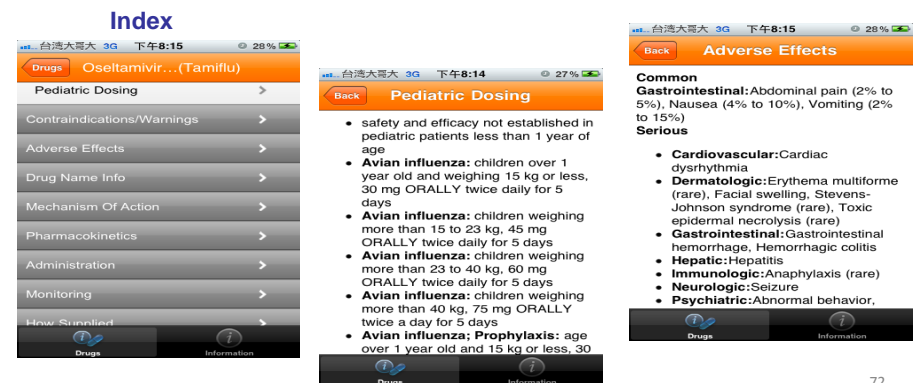


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資料庫選擇：MicroMedex in IOS



72

解決藥品諮詢問題的關鍵

- 辨識問題的種類
- 熟悉各資料庫的優勢與限制
- 練習、練習、再練習
 - 訓練自己成為金手指的不二法則

Take Home Message

- Practice makes perfect.
- Try, Try, and Try.....
- Never use only one resource or database to answer the question.



實證醫學只能給予資訊，而永遠不能夠取代個別的专业，因為是專業決定何時及如何採用這些實證。

David Sackett