

大



- 藥品交互作用在臨床藥事服務的重要性
 簡介 MDX 藥品交互作用資料庫之內容與
 使用
- ▲案例報告
 - 藥品與藥品交互作用藥品與檢驗交互作用
 - ▶ 藥品過敏反應

2012-03-18 Closed

TORREW'LET	藥品交互作用資料庫系統 (MM 7 Mail Takato R 0.0) 系統使用次数:208633 人次 資料更新時間:2009-01-22 22:20:55
聖入系統	系統公告
醫事人員代碼:	2010-09-29 14:55 登佈
申請時所塡密碼:	编四卷有機會拿禮卷「九十九年度系統使用攝意度調查」
	感謝您對行政院漸生署藥品交互作用資料庫系統的之持與爱護。此次滿意度調查是為提升系統的服務品質,您費貴的意見將 成為我們日後重要依據,請您依照個人實際狀況填寫,同時填悶卷有機會拿禮卷唱。
21.5E	活動時間: 2010年10月1日 ~ 2010年10月31日 樊順內溶:
55268	1. OMRON 軟好酸橙脂計 乙台
	2.40B積身碟 10名 3.7-11禮卷 20名
首次光腦	如有任何疑問,可於上班時間來電胸間(02-26582223轉分機114盧小姐)。
	苏联新 会
- CLANESS	行政院漸生署(以下簡構本署)於92年7月規劃之「藥品交互作用資料庫管理資訊系統」(以下簡構本系統),爲提供各醫療

臺灣藥事資訊網



TPI	● 台灣藥事	到期 民家用集	谘询服務	
Taiwan Pharmacy	Internet Portal	http://www.taiwan-pharma.org.tw		中華民國藥師公會全國戰
● <u>首頁●主頁●下載</u> ●≰	網站地圖●藥事服務登入		學分查詢 藥師進修	<u>藥師週刊</u> <u>藥學雜誌</u> 民眾
	◎雞品快速查詢		名〕(<u>進階查詢</u>) 今日瀏覽人數:47	🖻 <u>民眾服務</u> :
本站說明		苯胺去耳胺甲本新维朗缩新 论		合併会計 おお子戸)
公會介紹			》轉載自 <u>藥師週刊第1761期</u> 作者:	南雄中記有毛芯氏
社區藥局		一、付費藥學資料庫 	21ml 1.1	
公告訊息		名稱	網址	備註
成果發表		Facts & Comparisons	http://www.factsandcomparisons.com/	
藥師養成		LexiComp	http://www.lexi.com/	
用藥常識		Micromedex 2.0	http://www.micromedex.com/2/home.h	tml
用藥查詢		二、免費檢核藥物交互作用網頁 	264.11	144 3.34
		名稱	網址	備註
用藥諮詢		Caremark_Drug Interactions	http://cpref.goldstandard.com/inter.asp	
問卷調查 有獎徵答 ▶		Healthline_Drug Interaction Checker	http://www.healthline.com/druginteracti	ons
		Drugs.com Drug Interaction	http://www.drugs.com/drug_interaction	s.php
網路資源		Checker		
高診次居家照護		Medscape_Drug Interaction Checker	http://reference.medscape.com/drug- interactionchecker	
人力銀行 Executionered 醫護工作機會		Cytochrome P450 Drug Interaction Table. Drug Interactions.Indiana Clinical Pharmacology	http://medicine.iupui.edu/clinpharm/DD	l <u>s/</u>
		Drug Digest	http://www.drugdigest.org/wps/portal/do	<u>digest</u>
		University of Maryland Medical Center Drug Checker	http://www.umm.edu/adam/drug_check	<u>ker.htm</u>

Drug Interactions (single)



Warfarin Sodium [Your search: Warfarin]

Intravenous, Oral

360°檢視儀錶板 | 🔸 跳轉到 1041 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

Pregnancy Category

Drug Interactions (single)

- Auverse Ellects 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

PRODUCT LOOKUP

- Tox & Drug: Warfarin Sodium
- Martindale: Warfarin Sodium
- 薬物圖片



Drug Interactions (single)

檢視多種藥物的相互作用→			
明化方式: 嚴重性: All	▼ 文件: All		•
轉到: Drug-Drug (439) 過敏症狀	t (0) 食物 (6) 2	乙 醇 (1) 實驗的	室 (0) 抽煙 (1) 懷孕 (1) 哺乳期 (1
rug_rug_相互作用 (439)			
[物:	嚴重性:	文件:	綜述
TAMOXIFEN CITRATE [Systemic] WARFARIN [Systemic]	Contraindicated	Good	Concurrent use of TAMOXIFEN and WARFARIN may result in an increased risk of bleeding.
AMIODARONE [Systemic] WARFARIN SODIUM [Systemic]	S Major	Excellent	Concurrent use of AMIODARONE and WARFARIN may result in an increased risk of bleeding.
MOXIFLOXACIN HYDROCHLORIDE [Systemic] WARFARIN [Systemic]	S Major	Excellent	Concurrent use of MOXIFLOXACIN an WARFARIN may result in increased risk of bleeding.
SIMVASTATIN [Systemic] WARFARIN SODIUM [Systemic]	S Major	Excellent	Concurrent use of SIMVASTATIN and WARFARIN may result in increased risk of bleeding and an increased risk of rhabdomyolysis.
WARFARIN [Systemic] NAPROXEN SODIUM [Systemic]	S Major	Excellent	Concurrent use of NAPROXEN and WARFARIN may result in an

Interaction Detail

- Warning
- Clinical Management
- Onset
- Severity
- Documentation
- Probable Mechanism
- Summary
- Literature
- Reference

INTERACTION DETAIL

Warning:

Concurrent use of TAMOXIFEN and WARFARIN may result in an increased risk of bleeding.

Clinical Management:

Concurrent administration of tamoxifen and coumarin-type anticoagulants, including warfarin, is contraindicated in high-risk women and women with ductal carcinoma in situ where tamoxifen is used to reduce the incidence of breast cancer. In other clinical situations where tamoxifen is used concurrently with warfarin, consider using lower warfarin doses and closely monitor the INR (international normalized ratio) with the addition and withdrawal of treatment with tamoxifen and periodically.

列印 🏭 關閉 🗙

Onset:

Delayed

Severity:

Contraindicated

Documentation:

Drug Interactions (single)



Definition



Drug Interactions (single)

RUG INTERACTIONS (SINGLE) 檢視多種藥物的相互作用	, •		
明化方式: 嚴重性: All		II	•
轉到: Drug-Drug (439) 過敏症狀	ミ(0) 食物(6)	乙 醇 (1) 實驗3	室 (0) 抽煙 (1) 懷孕 (1) 哺乳期 (1
rug-Drug 相互作用 (439) 物:	嚴重性:	文件:	綜述:
AMOXIFEN CITRATE [Systemic] WARFARIN [Systemic]	Contraindicate	Good d	Concurrent use of TAMOXIFEN and WARFARIN may result in an increased risk of bleeding.
AMIODARONE [Systemic] NARFARIN SODIUM [Systemic]	S Major	Excellent	Concurrent use of AMIODARONE and WARFARIN may result in an increased risk of bleeding.
MOXIFLOXACIN HYDROCHLORIDE Systemic] WARFARIN [Systemic]	S Major	Excellent	Concurrent use of MOXIFLOXACIN an WARFARIN may result in increased risk of bleeding.
SIMVASTATIN [Systemic] NARFARIN SODIUM [Systemic]	S Major	Excellent	Concurrent use of SIMVASTATIN and WARFARIN may result in increased risk of bleeding and an increased risk of rhabdomyolysis.
		Excellent	Concurrent use of NAPROXEN and

Drug Interactions (single)



	laci	1015	(single)
ORUC ITERACTIONS (SINGLE)			
检視多種葉物的相互作用 →			
細化方式: 嚴重性: All	▼ 交件: 🦊	All	•
跳轉到: Drug-Drug (439) 過敏症狀	: (0) 食物 (6)	乙醇 (1) 實驗部	室 (0) 抽煙 (1) 懷孕 (1) 哺乳期 (1
Drug-Drug 相互作用 (439) 藥物:	嚴重性:	文件:	
TAMOXIFEN CITRATE [Systemic] WARFARIN [Systemic]	O Contraindicate	Good	Concurrent use of TAMOXIFEN and WARFARIN may result in an increased risk of bleeding.
	Contraindicate		WARFARIN may result in an increased risk of bleeding.
WARFARIN [Systemic] AMIODARONE [Systemic]	-	≥d	WARFARIN may result in an increased risk of bleeding. Concurrent use of AMIODARONE and WARFARIN may result in an
WARFARIN [Systemic] AMIODARONE [Systemic] WARFARIN SODIUM [Systemic] MOXIFLOXACIN HYDROCHLORIDE	S Major	ed Excellent	WARFARIN may result in an increased risk of bleeding. Concurrent use of AMIODARONE and WARFARIN may result in an increased risk of bleeding. Concurrent use of MOXIFLOXACIN an WARFARIN may result in increased

-

Drug Interactions (multiple)



提交

Drug Interaction Results

Drug Interaction Results	修改相互作用		🔒 列印
細化方式: 藥物: All ▼ 嚴重性:	All 🔻	文件: All	▼ 類型: All ▼
跳轉到: 薬物 -薬物 (2) 複方 (0) 過敏症狀 ((0) 食物(7)	乙醇 (1) 實驗國	图 (1) 抽煙 (1) 懷孕 (6) 哺乳期 (6)
Drug-Drug 相互作用 (2)			
薬物 :	嚴重性 :	文件 :	綜述:
ESOMEPRAZOLE MAGNESIUM [Systemic] WARFARIN SODIUM [Systemic]	Moderate	Good	Concurrent use of ESOMEPRAZOLE and WARFARIN may result in elevations in INR values and potentiation of anticoagulation effects.
PREDNISOLONE [Systemic] WARFARIN SODIUM [Systemic]	Moderate	Fair	Concurrent use of PREDNISOLONE and WARFARIN may result in increased risk of bleeding or diminished effects of warfarin.
複方(未找到)			
Drug-過敏症狀 相互作用(未找到)			
Drug-食物 相互作用 (7)			
葉物:	嚴重性 :	文件 :	綜述:
WARFARIN SODIUM [Systemic]	S Major	Good	Concurrent use of WARFARIN and POMEGRANATE may result in increased warfarin plasma concentrations and
	1-1-1- 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	ere - 1-ja	

Drug Interactions (multiple)



提交

Add allergies

新增過敏症狀。

在搜尋欄位中鍵入過敏症狀。選擇過敏症狀並按一下 [◎]〔新增〕按鈕。 按一下「更新」將您的選擇加入至「藥物相互作用」中"要檢查的藥物"表單。

目符的過敏症狀: (416)	要檢查的過敏症狀:	
ABACAVIR		
ABARELIX		
ABATACEPT		
ABCIXIMAB		
ABECARNIL		
ABIES NIGRA		
ABIRATERONE		
ABOBOTULINUMTOXINA		
ACACIA		
ACADESINE		
ACAMPROSATE		
ACARBOSE		
ACE INHIBITOR		

Case 1: Warfarin + Herbal medicine

The patient is an 67-year-old Taiwanese man, a retired military officer with histories of AF, COPD, and HTN without known drug allergy, who presented with abdominal bleeding after falling to the ground at bathroom.....

Case 1: Patient drug profile & Lab.

data								
Medication	5/5	5/10	5/15	5/18	5/22	5/25	5/28	6/1
Transamine 250 mg Q6H, IB								
Esomeprazole 40 mg QD, IB						РО		
Cefuroxime 1 g Q12H, IV								
Amlodipine 5 mg QD, PO								
Furosemide 20 mg Q6H, IV					40	mg QD, P	0	
Prednisolone 10 mg BID, PO								
Warfarin 2.5 mg QD, PO								
天花粉 3 錢 TID, PO								
甘草 2 錢 TID,PO								
柴胡 2 錢 TID,PO								
Lab. Data	5/5	5/10	5/15	5/1	5/2 2	5/25	5/2 8	6/1
TNR	_		0.9	1.3	19	1.8	1.2	1.8

Management



For patients taking VKAs with INRs between 4.5 and 10 and with no evidence of bleeding, we suggest against the routine use of vitamin K.

Chest. 2012 Feb;141(2 Supp1):e152S-84S.

Recommended management of a

sunratheraneutic INR

INR	Bleeding present	Recommended action
>Ther to 5.0	No	Lower warfarin dose, or
		Omit a dose and resume warfarin at a lower dose when INR is in therapeutic range, or
		No dose reduction needed if INR is minimally prolonged
>5.0 to 9.0	No	Omit the next 1 to 2 doses of warfarin, monitor INR more frequently, and resume treatment at a lower dose when INR is in therapeutic range, or
		Omit a dose and administer 1 to 2.5 mg oral vitamin K1*
>9.0	No	Hold warfarin and administer 2.5 to 5 mg oral vitamin K1. Monitor INR more frequently and administer more vitamin K1 as needed, Resume warfarin at a lower dose when INR is in therapeutic range
Any	Serious or life-threatening	Hold warfarin and administer 10 mg vitamin K1 by slow IV infusion; supplement with prothrombin complex concentrate, fresh frozen plasma, or recombinant human factor VIIa, depending on clinical urgency. Monitor and repeat as needed.

Chest 2008;

Pharmacokinetics of warfarin



- a) Initial Response
 - 1) Anticoagulation: within 24 hr [8]
 - a) The initial anticoagulant effect of warfarin usually occurs within 24 hr after administration [8].
- b) Peak Response
 - 1) Anticoagulation: 72 to 96 hr [8]
 - a) The peak anticoagulant effect of warfarin usually occurs within 72 to 96 hr [8].

Drug-drug interaction



Drug interaction results

Drug-Drug 相互作用 (6)

藥物:	巖重性:	文件 :	綜述:
DONG QUAI [Systemic] WARFARIN SODIUM [Systemic] [Warfarin]	Moderate	Good	Concurrent use of DONG QUAI and ANTICOAGULANTS may result in increased risk of bleeding.
ESOMEPRAZOLE MAGNESIUM [Systemic] WARFARIN SODIUM [Systemic] [Warfarin]	Moderate	Good	Concurrent use of ESOMEPRAZOLE and WARFARIN may result in elevations in INR values and potentiation of anticoagulation effects.
FUROSEMIDE [Systemic] LICORICE [Systemic]	Moderate	Good	Concurrent use of LICORICE and DIURETICS may result in increased risk of hypokalemia and/or reduced effectiveness of the diuretic.
LICORICE [Systemic] PREDNISOLONE [Systemic]	Moderate	Good	Concurrent use of LICORICE and CORTICOSTEROIDS may result in increased risk of corticosteroid adverse effects.
LICORICE [Systemic] WARFARIN SODIUM [Systemic] [Warfarin]	Moderate	Fair	Concurrent use of LICORICE and ANTICOAGULANTS may result in increased risk of bleeding.
PREDNISOLONE [Systemic] WARFARIN SODIUM [Systemic] [Warfarin]	Moderate	Fair	Concurrent use of PREDNISOLONE and WARFARIN may result in increased risk of bleeding or diminished effects of warfarin

Case 1: Patient drug profile & Lab.

data								
Medication	5/5	5/10	5/15	5/18	5/22	5/25	5/28	6/1
Transamine 250 mg Q6H, IB								
Esomeprazole 40 mg QD, IB						РО		
Cefuroxime 1 g Q12H, IV								
Amlodipine 5 mg QD, PO								
Furosemide 20 mg Q6H, IV					40	mg QD, P	0	
Prednisolone 10 mg BID, PO								
Warfarin 2.5 mg QD, PO								
天花粉 3 錢 TID, PO								
甘草 2 錢 TID,PO								
柴胡 2 錢 TID,PO								
Lab. Data	5/5	5/10	5/15	5/1	5/2 2	5/25	5/2 8	6/1
TNR	_		0.9	1.3	19	1.8	1.2	1.8

Interaction details

- Warning: Concurrent use of DONG QUAI and ANTICOAGULANTS may result in increased risk of bleeding.
- **Clinical Management:** Caution is advised if dong quai and an anticoagulant are taken concomitantly. Monitor for signs and symptoms of excessive bleeding.
- **Onset:** Delayed
- Severity: Moderate
- **Probable Mechanism:** Inhibition of thromboxane formation and platelet aggregation by coumarin derivatives in dong quai
- Summary: One patient taking dong quai with warfarin presented with excessive bruising and an International Normalized Ratio (INR) of 10, within 1 month of beginning dong quai (Ellis & Stephens, 1999); another patient taking dong quai with warfarin presented with an INR of 4.9 yet was asymptomatic (Page & Lawrence, 1999). In a study of 96 patients, intravenous dong quai significantly prolonged prothrombin time compared with dextran (Junjie & Huaijun, 1984). Dong quai contains coumarin derivatives and components that may inhibit platelet aggregation (Page & Lawrence, 1999; Ko et al, 1989).

Interaction details

• Literature:

- A 46-year-old female taking warfarin 5 mg daily, digoxin 0.25 mg daily, and furosemide 20 mg daily for atrial fibrillation had an international normalized ratio (INR) between 2 and 3 for more than two years and remained in good health. She presented to an anticoagulation clinic with a prothrombin time (PT) of 23.5 seconds and INR of 4.05, but was asymptomatic. She denied dietary changes, illnesses, or other medication use. One month later, her PT was 27.0 seconds and her INR had increased to 4.9. She again denied any changes in diet or medications, but did state that she had started taking dong quai (Nature's Way) 565 mg once or twice daily for perimenopausal symptoms. She was instructed to discontinue dong quai, and two weeks later her PT was 21.6 and her INR was 3.41. After another two weeks had passed, her PT and INR were 18.5 and 2.48, respectively (Page & Lawrence, 1999).
- In a study of 96 patients with acute ischemic stroke admitted to a Chinese hospital, 200 milliliters (mL) of an extemporaneously prepared 25% RAS (dong quai from the dried root of Radix Angelicae Sinensis: RAS) solution was administered intravenously for 20 days to 50 patients and dextran was administered to 46 controls. The prothrombin times (PT) were significantly (p less than 0.0001) longer in patients administered RAS than in patients receiving dextran, although specific PT values were not provided. Dextran can inhibit platelet aggregation, and prolong both bleeding and coagulation times (Junjie & Huaijun, 1984).
- A 1-month regimen of dong quai (dose unspecified) provoked extensive bruising and an International Normalized Ratio (INR) of 10 after being given concomitantly with warfarin to a menopausal woman (age unspecified). The patient had previously taken warfarin for 10 years following a mitral valvuloplasty (Ellis & Stephens, 1999).

• Reference(s):

- ____ E11is GR & Stephens MR: Minerva. BMJ 1999; 319:650.
- ____ Junjie T & Huaijun H: Effects of Radix Angelicae Sinensis on hemorrheology in patients with acute ischemic stroke. J Tradit Chin Med 1984; 4:225-228.
- Ko FN, Wu TS, Liou MJ et al: Inhibition of platelet thromboxane formation and phosphoionsitides breakdown by osthole from Angelica pubescens. Thromb Haemost 1989; 62:996-999.
- ____ Page RL & Lawrence JD: Potentiation of warfarin by dong quai. Pharmacotherapy 1999; 19:870-876.

Case 2: Piperacillin & Aspergillus galactomannan

- This 26 y/o female had past histories of CKD stage V; lupus nephritis; SLE, complicated with hemolytic anemia; and HTN.
- Regular follow up on our OPD
 - _Methylprednisolone 4 mg BID
 - -Hydroxychloroquine 200 mg BID
 - -Mycophenolate 180 mg BID
 - -Furosemide 40 mg QD
 - Labetalo1 200 mg BID
 - -Exforge 5mg/80mg 1tab BID
- C.C.

- Cough with blood tinged white sputum for 3 days

Tentative Diagnosis

- Suspect acute pulmonary edema, suspect fluid overload R/O pneumonia related and SLE progress
- SLE with lupus nephritis flare up
- Anemia suspect SLE related R/O Bleeding



報告項目	結未值	<u> </u>
Aspergillus galactomannan Ag: Index	14.9	<0.5
Aspergillus galactomannan Ag: Interpretation	Positive	Negative

Drug-Lab. interaction



Warning: Piperacillin/Tazobactam may result in false-positive galactomannan detection due to mechanism unknown.

- **Onset:** Rapid
- Severity: Moderate
- **Documentation:** Good

with use of Bio-Rad Laboratories Platelia® Aspergillus enzyme immun**nee Factorion**li**detarim** samples from patients receiving piperacillin/tazobactam. This assay may still be used for patients receiving piperacillin/tazobactam infusions, however, it is important to draw the blood specimen when piperacillin/tazobactam plasma concentrations are at trough level or just prior to the next dose. Use caution when interpreting positive results (Singh et al, 2004; Anon, 2005).

Summary: Evidence indicates thatNotably, in a singlecenter study, therapy with the Tazocin(TM) brand piperacillin/tazobactam did not appear to significantly increase the risk of false positive serum samples among treated patients when using the Platelia® Aspergillus GM antigen assay; additionally, none of the 90 piperacillin/tazobactam vials tested positive for GM (Mikulska et al, 2012).

Literature: False-positive test results using the Bio-R

Case 3: Ephedrine & amphetamine assay

- This 22 y/o female, a college student without known adverse drug reaction, denied any history. She fainted suddenly when biking before admission.
- 美容中心 medication (for 1 year):
 - -Caffeine 100 mg TID
 - -Topiramate 25 mg TID
 - -Ephedrine (纖之錠) 1 tab TID
 - -Furosemide 40 mg QD $\,$
 - -MgO 500 mg TID
 - -Sennosides 2 tab HS

Urine Test for Amphetamine

報告項目	結果值	參考值
Amphetamine	6533 ng/mL	< 500 ng/mL

Drug-實驗室 相互作用 (1)				
藥物 :	嚴重性:	文 件 :	結 新進:	
EPHEDRINE SULFATE [Systemic] [Ephedrine (Ephedrine Sulfate)]	M Minor	Good	EPHEDRINE may result in a falsely positive amphetamine assay result due to chemical similarity between ephedrine and amphetamine.	



Interaction detail

- **Warning:** EPHEDRINE may result in a falsely positive amphetamine assay result due to chemical similarity between ephedrine and amphetamine.
- **Clinical Management:** When screening for amphetamines using the EMIT assay, recent use of ephedrine should be ruled out when test results are positive.
- **Onset:** Rapid
- Severity: Minor
- Documentation: Good
- **Probable Mechanism:** chemical similarity between ephedrine and amphetamine
- Summary: Several over-the-counter and prescription drugs can interfere with the EMIT assay for amphetamines. These include ephedrine, phenylpropanolamine, pseudoephedrine, phenmetrazine, and phentermine (high doses) (Personal Communication, 1987). Their recent use should be ruled out when test results are positive.
- **Reference(s):** Personal Communication: Personal Communication: Analytitox. Analytitox, Denver, Colorado, 303-595-9071, 1987.

Case 4: Protamine related

anaphylactic shock

性別	年齡	發生日期	藥品	症狀描述	Naranjo scale
男 10/1	77 Y 8 12:1	10/19/1 1 0 BP 105/	Protami ne INJ 46 mmHg	Anaphylact ic shock	4 (可能)

10/18 12:23 Protamine 2.2 cc IV to reverse heparin

10/18 12:25 BP 54/23 mmHg, bradycardia and conscious change. Rescue with cardiac massage, atropine, epinephrine pump, dopamine pump, fluid, hydrocortosone and endotracheal intubation, IABP implantation.

10/18 20:30 Blood presure more stable →DC epinephrine

Protamine related anaphylaxis

- Cardiovascular effects: hypotension, bradycardia, pulmonary hypertension, reduced cardiac output, transient flushing, and a feeling of warmth. MCROMEDEX02.0
- 仿單:過敏性反應包括低血壓、呼吸困 難、支氣管痙攣、潮紅、蕁麻疹、血管 性水腫、過敏性休克







新增過敏症狀。

· 在搜尋欄位中鍵入過敏症狀。 選擇過敏症狀並按一下 ◎〔新增〕按鈕。 按一下「更新」將您的選擇加入至「藥物相互作用」中"要檢查的藥物"表單。

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Drug Interaction Results < 修改相互作用

細化方式:	藥物: All ▼	嚴重性: All ▼	文件: All V	v 類型: All	V
跳轉到:	薬物 -薬物 (0) 複方 (0)	過敏症狀 (1) 食物 (2)	乙 醇 (2) 實 驗室 (0)	抽煙 (0) 懷孕 (7)	哺乳期 (6)
Drug-Dru	ıg 相互作用(未找到)				
複方(オ	(找到)				

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Drug-過敏症狀 相互作用 (1)			
薬物:	嚴重性 :	文 件 :	線進:
INSULIN HUMAN ISOPHANE (NPH)/INSULIN HUMAN REGULAR PROTAMINE	? Unknown	Unknown	CROSS-REACTIVITY BETWEEN INSULINS OR AMONG PROTAMINE-CONTAINING AGENTS MAY OCCUR
Drug-食物 相互作用 (2)			
· 葉物:	嚴重性 :	文件:	線進:
FUROSEMIDE [Oral (systemic)]	Moderate	Excellent	Concurrent use of FUROSEMIDE and FOOD may result in decreased furosemide exposure and efficacy.
LORAZEPAM [Systemic]	Minor	Good	Concurrent use of CAFFEINE and LORAZEPAM may result in reduced sedative and anxiolytic effects of lorazenam.

Adverse Effect:

ANAPHYLAXIS, ASTHMA, SKIN RASH

Warning:

CROSS-REACTIVITY BETWEEN INSULINS OR AMONG PROTAMINE-CONTAINING AGENTS MAY OCCUR

Probable Mechanism:

IgE- or immune complex-mediated reaction.

Summary:

CROSS-REACTIVITY - HYPERSENSITIVITY: Cross-allergenicity is reported between insulins (Anderson & Adkinson, 1987), including recombinant human (rDNA) insulin preparations (Bodtger & Wittrup, 2005) and human insulin analogues (Adachi et al, 2004; JiXiong et al, 2004; Barranco et al, 2003; Durand-Gonzalez et al, 2003). True hypersensitivity reactions are rare (Bodtger & Wittrup, 2005). Source, purity, and presence of components (zinc, cresol, protamine, etc) may contribute to allergenicity (Heinzerling et al, 2007). Allergenicity by source can be ranked from most allergenic to least allergenic: bovine > porcine > human (Heinzerling et al, 2007). Local allergic reactions to insulin



Interaction Detail (1)

- Adverse effect: anaphylaxis, asthma, skin rash
- Warning: cross-reactivity between insulins or among protaminecontaining agents may occur
- **Probable mechanism:** IgE- or immune complex-mediated reaction.
- Summary:
 - Cross-allergenicity is reported between insulins (anderson & adkinson, 1987), including recombinant human (rDNA) insulin preparations (bodtger & wittrup, 2005) and human insulin analogues (adachi et al, 2004; jixiong et al, 2004; barranco et al, 2003; durand-gonzalez et al, 2003). True hypersensitivity reactions are rare (bodtger & wittrup, 2005). Source, purity, and presence of components (zinc, cresol, protamine, etc) may contribute to allergenicity (heinzerling et al, 2007). Allergenicity by source can be ranked from most allergenic to least allergenic: bovine > porcine > human (heinzerling et al, 2007). Local allergic reactions to insulin may include erythema, pruritus, and induration (richardson & kerr, 2003). Cutaneous reactions are usually short-lived and may resolve spontaneously with a few weeks (richardson & kerr, 2003). Management of cutaneous allergic reactions to insulins may include use of antihistamines, corticosteroids, desensitization to insulin, or a change in the delivery system (richardson & kerr, 2003; messaad et al, 2004).

Interaction Detail (2)

- **Protamine-containing agents:** Patients at greatest risk for development of allergic reactions to protamine include those patients with a history of **diabetes** mellitus, protamine-containing insulin therapy, fish allergy, previous exposure to protamine, or recent vasectomy (Caplan & Berkman, 1976; Gupta et al, 1988; Knape et al, 1981; Levy et al, 1986; Levy et al, 1989; Samuel et al, 1978; Weiler et al, 1990). Reactions to protamine might include anaphylactic or anaphylactoid reactions, angioneurotic edema, apnea, bradycardia, bronchospasm, cardiac arrest, flushing, hypotension, loss of consciousness, numbress, occipital pain, pulmonary artery pressure elevation, urticaria, ventricular fibrillation, or wheezing (Caplan & Berkman, 1976; Doolan et al, 1981; Gupta et al, 1988; Weiler et al, 1990; Weiss et al, 1990).
- Alternate Therapy: Switch to an oral antidiabetic agent.

