# 個案報告

前回春藥局 陳雅德藥師

# 個案基本資料

•姓名:韓邱 XX

• 年龄:84歲

• 性別:女

• 居住地:土城市

• 居住狀況:與兒子同住

• 生理狀況:有中度視覺障礙、可自行行

動、可正常吞嚥

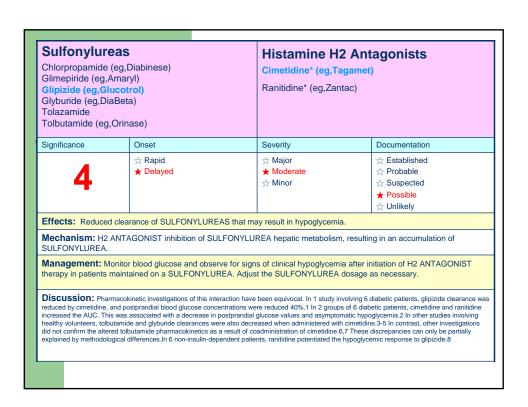
第一次訪視
時間:99年3月17日 2:30pm~3:30pm
■ 建立用藥資料:
藥品過敏史:無
藥品不良反應既往史: 無
服藥狀況: ■ 可自行吞服錠劑或膠囊
□ 藥品須磨粉 □ 管灌給藥
■ 檢視藥品儲存狀況:
藥品儲存地點 客廳桌下
藥品儲存環境□恰當 ■待改善 □藥師協助改
善 □已改善

醫療院所 /科別 /醫師	調劑處所	商品名	學名	含量/劑型	劑量/ 用法	實際用法
亞東醫院 心臟血管科 葉東峰	亞東 醫院	Alpraline	Alprazolam	0.5mg/tab	0.5mg*1BID	0.5mg*1BID
		Isobide	Isosorbide Dinitrate	10mg/tab	10mg*0.5BID	10mg*0.5BID
		Espin	Aspirin	100mg/cap	100mg*1QD	100mg*1QD
		Rasitol	Furosemide	40mg/tab	40mg*1QD	40mg*1QD
		Verapamil	Verapamil	40mg/tab	40mg*1TID	40mg*1TID
		Ciketin	Cimetidine	200mg/tab	200mg*1BID	200mg*1BID
亞東醫院 新陳代謝科 陳華芬	亞東 醫院	Glidiab	Glipizide	5mg/tab	5mg*1 BIDAC	5mg*1 BIDAC
亞東醫院 泌尿科邱斌	亞東 醫院	Tamlosin	Tamsulosin	0.2mg/cap	0.2mg*1QD	0.2mg*1QD
		MgO	MgO	250mg/tab	250mg*1 Tid	250mg*1 Tid
		Dampurin	Bethanechol	25mg/tab	20mg*1 Bid	20mg*1 Bid
亞東醫院 骨科	微笑 埔墘 藥局	Evista	Raloxifene	60mg/tab	60mg*1QD	60mg*1QD

						醫師	1
學名	實際 用法	用藥 相關 問題	問題 發生 原因	藥師建議	貌明1	结果	說明2
Alprazolam	5mg*1BID	BR	СН	EC BD	其他		
Isosorbide Dinitrate	10mg* 0.5BID	BR		EC	薬品交互作用		
Aspirin	100mg* 1QD	BR	СН-	BR			
Furosemide	40mg*1QD	BR	СН	BR	停藥		
Verapamil	40mg* 1TID	BR	СН	BR	· 行業		
Cimetidine	200mg* 1BID	BR	СН	EG	預防胃酸已有MgO	FA	個案兒子可以接受
Glipizide	5mg* 1 BIDAC	BR	СН	BR	其他		
Tamsulosin	0.2mg* 1QD	BR	DP	EA	藥袋上寫治療 攝護腺肥大	FA	個案兒子可以接受
MgO	250mg* 1 Tid	BR	DE	BR	給予口頭用藥指導	Î	
Bethanechol	20mg*1 Bid	BR	DP	BR			
Raloxifene	60mg*1QD	BR	DP	BR	藥袋標示為內科	FC	藥品作用相同

交互作用藥品	相關品名	危害等級	作用速度	嚴重 程度	文獻記載
		Significance	Onset	Seve rity	Document
1 Glipizide <==> Furosemide _	-	5	Delayed	Minor	Possible
泌樂得錠5公絲(格力匹來) <==> タ	R喜妥錠40公	·絲 (服樂泄麥)			
2 Glipizide <==> Cimetidine _	-	4	Delayed	Moderate	Possible
泌樂得錠5公絲(格力匹來) <==> 4	喜潰治錠400	公絲			
3 Glipizide <==> Aspirin _	-	2	Delayed	Moderate	Probable
泌樂得錠5公絲(格力匹來) <==>"	永勝" 安心平腸	お溶微粒膠囊100	) 毫克 (阿斯區	5林)	
4 Verapamil <==> Cimetidine _	-	5	Rapid	Moderate	Unlikely
必得命糖衣錠40公絲(唯律脈必利)	) <==> 喜潰治	錠400公絲			
5 Furosemide <==> Aspirin _	-	5	Delaye d	Minor	Possible
來喜妥錠40公絲(服樂泄麥)<==>	> "永勝" 安心平	-腸溶微粒膠囊10	) () 毫克 (阿斯	近本)	
6 Cimetidine <==> Alprazolam _	-	3	Rapid	Minor	Probable
喜潰治錠400公絲 <==> "信東" 安村	白寧錠○・5公	· *絲			

### **Sulfonylureas Loop Diuretics** Bumetanide (eg,Bumex) Chlorpropamide (eg,Diabinese) Ethacrynic Acid (eg,Edecrin) Glimepiride (eg,Amaryl) Furosemide (eg,Lasix) Glyburide (eg,DiaBeta) Tolazamide Tolbutamide (eg,Orinase) Significance Onset Severity Documentation ☆ Rapid ☆ Major ☆ Established ☆ Moderate ☆ Probable ★ Delayed ☆ Suspected ★ Possible ☆ Unlikely Effects: LOOP DIURETICS may decrease glucose tolerance, resulting in hyperglycemia in patients previously well controlled on SULFONYLUREAS. Mechanism: Unknown. Management: The present data do not suggest that any alteration in therapy is necessary. Discussion: Although some data suggest that loop diuretics are capable of causing hyperglycemia or altered carbohydrate metabolism, other studies report no significant alteration in blood sugar or carbohydrate metabolism.1-9No studies have been published that specifically examine the effect of the addition of a loop diuretic to the regimen of a non-insulin-dependent diabetic patient controlled on a sulfonylurea. Such controlled trials are necessary to clarify the importance of this interaction.



Sulfonylure			Salicylates				
Chlorpropamide Glimepiride (eg, A Glipizide (eg, Gli Glyburide (eg, Dia Tolazamide Tolbutamide (eg,	kmaryl) ucotrol) aBeta)	Choline Salicylate (/ Magnesium Salicyla Salsalate (eg,Amige Sodium Salicylate*	Aspirin* (eg,Bayer) Choline Salicylate (Arthropan) Magnesium Salicylate (eg,Doan's) Salsalate (eg,Amigesic) Sodium Salicylate* Sodium Thiosalicylate (eg,Rexolate)				
Significance	Onset	Severity	Documentation				
2	☆ Rapid ★ Delayed	☆ Major ★ Moderate ☆ Minor	☆ Established ★ Probable ☆ Suspected ☆ Possible ☆ Unlikely				
Effects: Increase	d hypoglycemic effect of SULFON	YLUREAS.	·				
	CYLATES reduce basal plasma glucose cose. Displaced SULFONYLUREA protei		hibition of prostaglandin synthesis may inhibit acute				
•	onitor the patient's blood glucose. If hypogophen(eg,Tylenol) or an NSAID (eg, sulind	•	the SULFONYLUREA dose. Consider alternative				
19 When salicylates are subjects.4,6 In 1 study i reducing blood glucose dose. In 21 healthy volu	coadministered with sulfonylureas, the h n healthy volunteers, the coadministration 16 When the dose of each drug was halv	ypoglycemic effect may be increased. In n of single doses of chlorpropamide 200 ed, the response was no different than t	tolerance, and augment acute insulin response.2- n 2 reports, salicylates had no effect on nondiabetic mg and sodium salicylate 3 g was additive in he response to either agent alone at the higher ated insulin secretion, and tolbutamide-stimulated				

Verapamil Verapamil*(Calan)		Cimetidine Cimetidine* (Tagamet)			
Significance	Onset	Severity	Documentation		
5	★ Rapid ☆ Delayed	☆ Major ★ Moderate ☆ Minor	<ul> <li>☆ Established</li> <li>☆ Probable</li> <li>☆ Suspected</li> <li>☆ Possible</li> <li>★ Unlikely</li> </ul>		
Mechanism: Inh	rs refute this finding.  ibition of VERAPAMIL metabolic  ecause no significant clinical eff	-	interventions appear necessary; monitor		
Discussion: Ver other pharmacoking however, this was of change in the ratio.	tic parameters or in hepatic blo due to small changes in the area 1 No other changes in pharmac	ood flow.2 Verapamil bioavailability na a under the curve (AUC) after oral an cokinetic parameters were noted and pamil-induced ECG alterations have	0%by cimetidine without any changes in nearly doubled when cimetidine was giver nd intravenous dosing leading to a larger d other investigators were unable to been recorded.1,3 Thus, there does not		

### **Loop Diuretics Salicylates** Bumetanide (eg,Bumex) Aspirin\* (eg,Bayer) Choline Salicylate (Arthropan) Ethacrynic Acid (eg,Edecrin) Furosemide (eg,Lasix) Magnesium Salicylate (eg,Doan's) Salsalate (eg,Amigesic) Sodium Salicylate\* Sodium Thiosalicylate (eg,Rexolate) Significance Onset Documentation ☆ Rapid ☆ Major $\stackrel{\wedge}{ ightharpoons}$ Established ★ Delayed ☆ Moderate ☆ Probable ★ Minor ☆ Suspected ★ Possible ☆ Unlikely Effects: The diuretic response to LOOP DIURETICS may be impaired in patients with cirrhosis and ascites. Mechanism: Unknown. Management: No clinical interventions are generally required. For patients with cirrhosis and ascites requiring LOOP DIURETICS, use SALICYLATES with caution. Discussion: In 6 patients with cirrhosis and ascites, preadministration of IV lysine acetylsalicylate decreased urine volume and sodium excretion following furosemide 40 mg IV. The patients served as their own control.1 Other studies in healthy volunteers have failed to demonstrate antagonism of furosemide-induced diuresis with low or high doses of aspirin2-4 or with the fluorinated salicylate derivative diffunisal (eg,Dolobid).5Further study is needed in patients with CHF, renal dysfunction, and cirrhosis to evaluate the importance of salicylate derivative on the response to loop diuretics.

Verapamil Verapamil*(Calan)		Cimetidine Cimetidine* (Tagamet)			
Significance	Onset	Severity	Documentation		
5	★ Rapid ☆ Delayed	☆ Major ★ Moderate ☆ Minor	<ul> <li>☆ Established</li> <li>☆ Probable</li> <li>☆ Suspected</li> <li>☆ Possible</li> <li>★ Unlikely</li> </ul>		
Management: B	ibition of VERAPAMIL metabolis	-	interventions appear necessary; monitor		
other pharmacoking however, this was	etic parameters or in hepatic blo due to small changes in the area 1 No other changes in pharmac	od flow.2 Verapamil bioavailability na under the curve (AUC) after oral an okinetic parameters were noted and pamil-induced ECG alterations have	50%by cimetidine without any changes in nearly doubled when cimetidine was given not intravenous dosing leading to a larger d other investigators were unable to be been recorded.1,3 Thus, there does not		

### **Benzodiazepines (Ox.)** Cimetidine Alprazolam\* (eg,Xanax) Chlordiazepoxide\* (eg,Librium) Cimetidine\* (Tagamet) Clonazepam (Klonopin) Clorazepate\* (eg,Tranxene) Diazepam\* (eg,Valium) Estazolam (eg,ProSom) Flurazepam\* (eg,Dalmane) Halazepam (Paxipam) Midazolam\* (Versed) Prazepam Quazepam (Doral) Significance Onset Severity Documentation ★ Rapid ☆ Major ☆ Established ☆ Delayed ☆ Moderate ★ Probable ★ Minor ☆ Suspected ☆ Possible ☆ Unlikely Effects: Serum levels of some BENZODIAZEPINES may be increased. Certain actions, especially sedation, may be enhanced. **Mechanism:** Inhibition of hepatic oxidative metabolism due to enzyme inhibition; other mechanisms may be involved.4,13,14,19 Management: Monitor for increased/prolonged sedation. Warn patients of possible impairment of judgment and reflexes. Reduce BENZODIAZEPINE dose as needed. BENZODIAZEPINES not metabolized by oxidation may avoid the interaction. Discussion: Benzodiazepines that undergo oxidative metabolism have reduced clearance (30% to 63%), longer half-lives and higher serum levels with this combination.1-3,5-9,12-14,16,21,22 Onset is rapid and sustained, but returns to baseline if cimetidine is stopped for 48 hours.5 Effects may be more pronounced in the elderly with baseline impairment in clearance.8 Reports of increased bioavailability of some agents reflect decreased first-pass metabolism rather than enhanced GI absorption.3,8,9,19 While increased duration of sedation has occurred,2,3,7,10,15 benzodiazepines undergoing hepatic glucuronidation (lorazepam [eg,Ativan], oxazepam [eg,Serax] and temazepam [eg,Restoril]) do not interact.3,4,11,12 Studies with midazolam show no effect17 or effects comparable to diazepam.17,18,23 Nizatidine (Axid) or famotidine (Pepcid) appear not to interact.16,20

# 第二次訪視 時間:99年4月30日 9:00pm~10:00pm ■ 建立用藥資料: 藥品過敏史: 無 藥品不良反應既往史: 無 服藥狀況: 可自行吞服錠劑或膠囊 □ 藥品須磨粉 □ 管灌給藥 ■ 檢視藥品儲存狀況: 藥品儲存地點 客廳桌下(藥盒) 藥品儲存環境□恰當 □待改善 ■藥師協助改善 善 ■已改善

醫療院所 /科別 /醫師	調劑處所	商品名	學名	含量/劑型	劑量/ 用法	實際用法
亞東醫院 心臟血管科 葉東峰	骤鴻 藥局	Alpraline	Alprazolam	0.5mg/tab	0.5mg*1BID	0.5mg*1BID
		Isobide	Isosorbide Dinitrate	10mg/tab	10mg*0.5BID	10mg*0.5BID
		Espin	Aspirin	100mg/cap	100mg*1QD	100mg*1QD
		Rasitol	Furosemide	40mg/tab	40mg*1QD	40mg*1QD
		Verapamil	Verapamil	40mg/tab	40mg*1TID	40mg*1TID
		Ciketin	Cimetidine	200mg/tab	200mg*1BID	200mg*1BID
亞東醫院 新陳代謝科 陳華芬	亞東 醫院	Glidiab	Glipizide	5mg/tab	5mg*1 BIDAC	5mg*1 BIDA(
亞東醫院 泌尿科邱斌	亞東 醫院	Tamlosin	Tamsulosin	0.2mg/cap	0.2mg*1QD	0.2mg*1QD
		MgO	MgO	250mg/tab	250mg*1 Tid	250mg*1 Tid
		Dampurin	Bethanechol	25mg/tab	20mg*1 Bid	20mg*1 Bid
亞東醫院 骨科	亞東 醫院	Evista	Raloxifene	60mg/tab	60mg*1QD	60mg*1QD

學名	實際 用法	用藥相關問題	問題 發生 原因	藥師 建議	税明1	结果	說明2
Alprazolam	5mg*1BID	BR	СН	EC BD	其他		
Isosorbide Dinitrate	10mg* 0.5BID	BR		EC			
Aspirin	100mg* 1QD	BR	СН	BR	藥品交互作用		個案接受建議
Furosemide	40mg*1QD	BR	СН	BR			7/
Verapamil	40mg* 1TID	BR	СН	BR	原廠已停產	FA	更换中化同成分藥品
Cimetidine	200mg* 1BID	BR	СН	EG	預防胃酸已有MgO	FA	個案兒子可以接受
Glipizide	5mg* 1 BIDAC	BR	СН	BR			
Tamsulosin	0.2mg* 1QD	BR	DP	EA	藥袋上寫治療 攝護腺肥大	FA	個案兒子可以接受
MgO	250mg* 1 Tid	BR	DE	BR	<b>从</b> 名口 <b>范</b> 田蔽 Ł i	Ś .	
Bethanechol	20mg*1 Bid	BR	DP	BR	給予口頭用藥指導	Ŧ	
Raloxifene	60mg*1QD	BR	DP	BR			





## 結案 共服務\_\_2\_\_次

- ■1. 已達預定次數之個案
- □2. 拒絕或無法配合接受服務個案
- ■3. 個案用藥問題已獲得解決者
- □4. 遷出台北縣
- □5. 個案入住機構
- □6. 個案死亡
- □7. 其他:

