

Safety Enhanced Design Brief

Clinical Information Reconciliation: Medications

Accurate medication reconciliation at transitions of care can reduce costly adverse events. Reconciliation involves comparing two or more lists of medications to determine the appropriate meds for a patient. Careful user interface design can decrease the cognitive complexity of this task, thereby reducing errors and task time.

- 1 Visually indicate unique, similar, and identical from each list

Columns show unique, similar and identical drugs

- 2 Sparingly use visual properties (such as size, color, and positioning) to make important information stand out

Names are in bold and on a separate line from other details

- 3 Avoid error-prone medication abbreviations (e.g., AD, OD, QD), symbols, and dose designations.

twinlist					
compare lists		group by : drug class	show help	show option	strat over?
Intake unique	Intake similar	Identical	Hospital similar	Hospital unique	
<small>keep rest reject rest [clear]</small>	<small>keep rest reject rest [clear]</small>	<small>keep rest reject rest [clear]</small>	<small>keep rest reject rest [clear]</small>	<small>keep rest reject rest [clear]</small>	
Calciferol 600 IU PO daily		acetaminophen 1 g PO q6h prn pain		cephalexin 500 mg PO q6h	
calcium carbonate 500 mg PO QID		lorazepam 1 mg PO q8h prn an...		enoxaparin 40 mg SC daily	
dabigatran 150 mg PO BID		tramadol 50 mg PO q6h prn p...		insulin sliding scale SC q4h prn	
metformin 850 mg PO daily				Lantus 20 mg SC qHS	
Micronase 5 mg PO daily					
Tirosint 100 mcg PO daily					
vitamin B12 1000 mcg SC qMonth					
	Aricept 10 mg PO daily		donepezil 10 mg PO qHS		
	Plavix 75 mg PO daily		clopidogrel 75 mg PO daily		Similar meds are shown on the same line
	Prozac 10 mg PO daily		fluoxetine 20 mg PO daily		
Differences of similar meds are highlighted in yellow	Zestoretic 20 / 12.5 mg PO daily		hydrochlorothiazide 12.5 mg PO daily		Hovering over a med highlights it and any similar meds
			lisinopril 20 mg PO daily		
	Lipitor 40 mg PO daily		rosuvastatin 40 mg PO daily		
	Toprol XL 20 mg PO daily				
Detail	Zestoretic (hydrochlorothiazide + lisinopril) 20 / 12.5 mg PO daily antihypertensive, diuretic hypertension hydrochlorothiazide 20 mg, lisinopril 12.5 mg				

- 4 Conveniently show complete pharmacological information

- 5 Support grouping by therapeutic intent, class, or associated diagnoses

Intake unique	Intake similar
<small>keep rest reject rest [clear]</small>	<small>keep rest reject rest</small>
atherosclerotic vascular disease aspirin 81 mg PO daily	
hypercholesterolemia	Lipitor 20 mg PO daily
hypertension	Capoten 25 mg PO BID
insomnia Sonata 10 mg po qHS	