Alaris pump
<mark>primary - drug library</mark>

#	Step	Failure Modes	Severity	Probability	Score	Detectable	Proceed?	CAUSES: Training	Policy & Proc	Technology	Environ	People	(cause)	ACTIONS: Training	Policy & Proc	Technology	Environ	People	L = long-range / others = short-term
1	Turn system on	not done	L	L	L	Y	N												
		dead battery	L	L	L	Y	N												
		broken button	L	L	L	Y	N												
2	System self-tests	total breakdown	L	L	L	Y	N												
3	Select yes/no for new pt	lack of knowledge of pt status	M	L	LM	N	Y	X					pt new to pump vs pt new to hosp	X					new = new to pump, no newly admitted
									X			X	inter-unit transfer		X			X	clear process & roles
									X			X	RN-to-RN transfer		X			X	clear process & roles
										X			unclear phraseology			X			L = re-phrase question to clarify
										X			pt not identfied on pump			X			L = interface w AcuScan will ID pt
4	Select profile	choose incorrect profile	M	H	MH	Y	Y	X	X				don't know existing profiles	X	X				include profiles in education
								X	X				don't know profile for unit	X	X				include profiles in education
								X	X				confusion with post-op transfer	X	X				FDS, OR, PACU training
										X			profiles not sequenced by most used			X			L = sequence profiles by most used
		repetitive button pushes to find correct profile	L	H	M	Y	N												
		can't select new profile while pump is running	H	H	M	Y	Y			X				X	X				recommendations re code situations: 1) run on basic infusion during code 2) switch to drug library when stable
																X			L = code mode by vendor
																X			L = pumps on blue carts
5	Select channel	incorrect button (brain vs muscle)																	
		tubing crossed	H	H	H	N	Y	X	X				multiple infusions at once	X	X				double checks
								X	X				look alike tubing & bags	X	X				double checks
								X	X				tubing not labeled		X	X			preprinted drug name labels
										X						X			L = interface w AcuScan label
												X	circular IV pole tops			X			L = tubing separators
		chart channel label, rather than infusion name (labels ABC right to left, even if channel added)								X						X			policy & procedure changes
6	Select drug library	select basic infusion instead																	
7 I	Select drug	Incorrect drug	H	H	H		Y			X			similar drug names			X			tall man lettering
		incorrect conc	H	H	H		Y			X			multipe concentrations		X	X			L = consider standard conc
								X		X			same drug/different conc on > 1 page			X			all conc for 1 drug on 1 page
																X			if mult conc on > 1 page, provide prompt
																X			fonts to differentiate conc
															X				double checks
	Drug calc	enter manually calculated rate	H	H	H	N	Y			X			drug not in profile		X				L = profile updates
								X					don't know pump capabilities	X					rounds to check programming
												X	don't trust technology	X					
												X	bad habits	X					rounds to check programming
		incorrect weight	M	H	MH	N	Y			X			ideal vs actual wt	X	X				L = CPOE
										X			not current wt	X	X				L = CPOE
		vol entered is not vol in bag	H	H	H	N	Y	X	X				not aware of policy	X	X				
												X	not aware of consequences (eg, air in line)	X					rounds to check programming
7 ii	Select dose calc	no drug label	M							X			not an option						
		incorrect weight	M	H	MH	N	Y	X	X				not aware of policy	X	X				
												X	not aware of consequences (eg, air in line)	X					rounds to check programming
		enter rate in volume field																	
		enter volume in rate field																	
		double key stroke - skipped screen	M	H	MH	N	Y	X					inattention to mult key strokes	X					
8	Enter volume to be infused	incorrect key pads	M	H	MH	Y	Y												
		misread order	M	H	MH	N	Y			X			illegible			X			L = CPOE
									X				processing orders for mult pts at once		X				L = process 1 pt at a time
		vol entered is not vol in bag	H	H	H	N	Y	X	X				not aware of policy	X	X				
												X	not aware of consequences (eg, air in line)	X					rounds to check programming
9	Review verification screen & correct if needed	OK without reading data on screen	M	M	M	N	Y	X	X				doulbe check not done	X	X				reinfroce double checks w revised high alert policy
																X			L = AcuScan forces double check
		read incorrectly	M	M	M		Y												
10	push start																		