



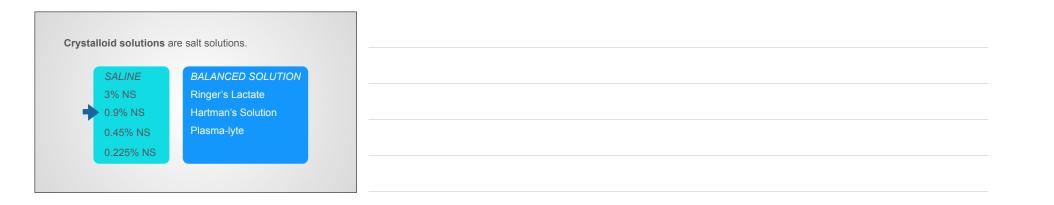
**Crystalloid solutions** are the standard solutions used for fluid replacement and maintenance.

Two types:

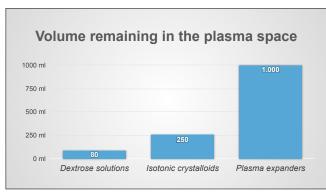


Balanced solutions: ➡ Ringers,

- ➡ Hartmanns,
- ➡ Plasma-lyte





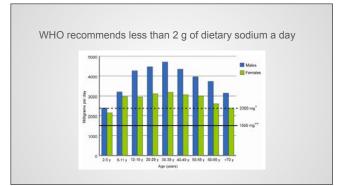














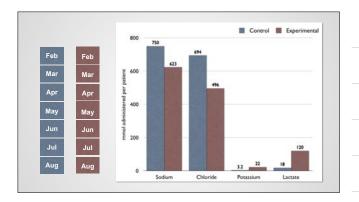




Balanced solutions	

ectrolyte	Ringers lactate	Hartmann's solution	Plasma-Lyte	Sterofundin	0.9% NaCl
sodium	130	131	140	140	154
potassium	4	5	5	4	
chloride	109	111	98	127	154
lactate	28	29			
acetate			27	24	
gluconate			23		
calcium	3	4		2.5	
magnesium			1.5	1	
pН	6.5	6.5	7.4		5.5

PRELIMINARY					
Association B	etween a Chloride-Liberal				
s Chloride-R	estrictive Intravenous Fluid				
Administration	n Strategy and Kidney Injury Adults				
n Critically III	Adults Context Administration of traditional chloride-liberal intravenous fluids may precipi-				





(RIFLE) Serun	Creatinine Criteria	by Risk, Injury, Failure, Loss, a	and
0.1		CI] of Patients <sup>a</sup>	
	Control Period (n = 760)	Intervention Period (n = 773)	P Value
RIFLE class Risk	71 (9.0) [7.2-11.0]	57 (7.4) [5.5-9.0]	.16
Injury	48 (6.3) [4.5-8.1]	23 (3.0) [1.8-4.2]	.002
Failure	57 (7.5) [5.6-9.0]	42 (5.4) [3.8-7.1]	.10
Injury and failure	105 (14) [11-16]	65 (8.4) [6.4-10.0]	<.001



More data is needed
Association between a Chlonde-Liberal vs Chloride-Restrictive Intravenous Fluid Administration Strategy and Kidney Injury in Critically III Adults

