

CALCULATION OF THE COMPOSITION OF DRUG INFUSIONS (50ML syringe pump)

1. SELECT DESIRED DRUG DOSAGE TO BE DELIVERED IN MCG/KG/MIN.
2. SELECT INFUSION RATE OF SYRINGE PUMP IN ML/HOUR (FROM CENTRE OF TABLE).
3. CALCULATE NUMBER OF MILLIGRAMS OF DRUG TO BE MIXED IN 50ML SYRINGE.

EG: 10KG CHILD, 0.1-2MCG/KG/MIN, INFUSION 1-20ML/HR: PUT 0.3MG/KG (-3MG) IN 50ML.

	0.15mg/kg in 50ml	0.3mg/kg in 20ml	0.6mg/kg in 50ml	1.5mg/kg in 50ml	3mg/kg in 50ml	6mg/kg in 50ml	15mg/kg in 50ml	30mg/kg in 50ml	60mg/kg in 50ml
MCG/KG/MIN	ML/HR	ML/HR							
0.05	1								
0.1	2	1	ML/HR						
0.2	4	2	1						
0.3	6	3	1.5						
0.4	8	4	2	ML/HR					
0.5	10	5		1					
0.6	12	6	3						
0.7	14	7							
0.8	16	8	4						
0.9	18	9			ML/HR				
1.0	20	10	5	2	1				
1.5		15		3	1.5	ML/HR			
2.0		20	10	4	2	1			
3.0				6	3	1.5			
4.0			20	8	4	2	ML/HR		
5.0				10	5		1		
6.0				12	6	3			
7.0				14	7				
8.0				16	8	4			
9.0				18	9			ML/HR	
10.0				20	10	5	2	1	
12.0					12	6			
14.0					14	7			
15.0					15		3	1.5	ML/HR
20.0					20	10	4	2	1
25.0							5		
30.0						15	6	3	1.5
40.0						20	8	4	2
50.0							10	5	
100.0							20	10	5
150.0								15	
200.0								20	10

1MG/KG/HR = 16.7MCG/KG/MIN = 50MG/KG IN 50ML AT 1ML/HR; 1MG/KG IN 50ML AT 1ML/HR = 0.02MG/KG/HR = 0.33MCG/KG/MIN
 MG/KG IN 50ML = 3 X DOSE(MCG/KG/MIN) / RATE(ML/HR); MG/KG IN 50ML = 50 X DOSE(MG/KG/HR) / RATE(ML/HR)