STANDARD CONCENTRATION DRUG LIBRARY TSCUH (short version)*				Actual Rate = Actual Dose X Default Rate		
*Refer to PICU full library for complete list of Drugs and Concentrations				(mL/hour)	Default Dose	
Drug	Weight	SCI (Normal)	Flow Rate Calculator	Diluent	Usual Dose Range	
			Default rate = Default dose			
			All weights in kg			
Adrenaline	≤2.5kg	1mg/50mL	(0.15 x Wt)mL/hr = 0.05 microgram/kg/min	Glucose 5%w/v	0 -0.1microgram/kg/min	
	>2.5 - ≤5kg	1mg/50mL	(0.15 x Wt)mL/hr = 0.05 microgram/kg/min	NaCl 0.9%w/v		
	>5 -≤10kg	3mg/50mL	(0.05 x Wt)mL/hr = 0.05 microgram/kg/min	Glucose 10%w/v		
	>10 - ≤20kg	6mg/50mL	(0.025  x Wt)mL/hr = 0.05  microgram/kg/min			
	>20kg	6mg/50mL	(0.025 x Wt)mL/hr = 0.05 microgram/kg/min			
Alteplase Infusion	≤2.5kg	0.2mg/mL	$(0.5 \times Wt)mL/hr = 0.1 mg/kg/hour$	NaCl 0.9%w/v	0.1 - 0.5ma/ka/hour	
	>2.5 - ≤5kg	0.5mg/mL	(0.2  x Wt)mL/hr = 0.1  mg/kg/hour	NaCl 0.9%w/v	usual max 6 hours	
	>5 -≤10kg	1mg/mL	$(0.1 \times Wt)mL/hr = 0.1 mg/kg/hour$	n/a		
	>10 - ≤20kg	2mg/mL	$(0.05 \times Wt)mL/hr = 0.1 ma/ka/hour$	n/a		
>20kg Also offered non-weight based option	>20kg	2mg/mL	(0.05  x Wt)mL/hr = 0.1  mg/kg/hour	n/a		
5 · · · · · · · · · · · · · · · · · · ·		<u>J</u> .				
Alteplase Load	≤2.5kg	0.2mg/mL	VTBI for 0.1mg/kg dose = (0.5 x Wt)mL	NaCl 0.9%w/v	0.1 - 0.5mg/kg	
(Weight-based)	>2.5 - ≤5kg	0.5mg/mL	VTBI for 0.1mg/kg dose = (0.2 x Wt)mL	NaCI 0.9%w/v	over 10 mins	
	>5 -≤10kg	1mg/mL	VTBI for 0.1mg/kg dose = (0.1 x Wt)mL	n/a		
	>10 - ≤20kg	2mg/mL	VTBI for 0.1mg/kg dose = (0.05 x Wt)mL	n/a		
>20kg Also offered non-weight based option	>20kg	2mg/mL	VTBI for 0.1mg/kg dose = (0.05 x Wt)mL	n/a		
	J. J	, j				
Alteplase Infusion	>20kg	2mg/mL	7.5mL/hour = 15mg/hour	n/a	15-90mg/hour	
NON-weight based						
Alteplase Load	>20kg	2mg/mL	VTBI for 10mg dose = 5mL	n/a	10-15mg	
NON-weight based					over 10 mins	
Aminophylline Load	≤2.5kg	50mg/50mL		Glucose 5%w/v	5mg/kg	
(Peripheral)	All >2.5kg	50mg/50mL or	VTBI for 5mg/kg dose = (5 x Wt)mL	NaCl 0.9%w/v	over 30mins	
		500mg/500mL			(Max 500mg)	
Aminophylline Load	All <10kg	250mg/25mL	VTBI for 5mg/kg dose = (0.5 x Wt)mL	Glucose 5%w/v	5mg/kg	
(CVC)	10-20kg	500mg/50mL	VTBI for 5mg/kg dose = (0.5 x Wt)mL	NaCl 0.9%w/v	over 30mins	
	>20kg	1000mg/50mL	VTBI for 5mg/kg dose = (0.25 x Wt)mL		(Max 500mg)	
	10.51					
Aminophylline Maintenance	≤2.5kg	50mg/50mL		Glucose 5%w/v		
(Peripheral)	All >2.5kg	50mg/50mL or	$(0.5 \times Wt)mL/hr = 0.5 mg/kg/hour$	NaCI 0.9%w/v	0-1mg/kg/hr	
		500mg/500mL				
Aminophylline Maintenance	All <10kg	250mg/25mL	$(0.05 \times Wt)mL/nr = 0.5 mg/kg/hour$	Glucose 5%w/v	0.4	
(CVC)	10-20kg	500mg/50mL	$(0.05 \times Wt)mL/hr = 0.5 mg/kg/hour$	NaCI 0.9%W/V	U-1mg/kg/nr	
	>20kg	1000mg/50mL	(0.025 X Wt)mL/nr = 0.5 mg/kg/hour			
Dobutamino	<2 5kg	75mg/50ml	(0.2 x Wt)ml /br - 5 microgram/kg/min	Glucoso 5% w/w	2-20microgrom/kg/min	
(CVC ideally)	>2.5 - <5kg	150mg/50ml	$(0.1 \times Wt)ml/hr = 5 microgram/kg/min$	NaCL 0.9%w/v	2-20microgram/kg/mm	
(CVC Ideally)	>5-<10kg	150mg/50mL	$(0.1 \times Wt)mL/hr = 5 microgram/kg/mll (0.1 \times Wt)mL/hr = 5 microgram/kg/mln$	Glucose 10%		
	>10 - <20kg	250mg/50ml	(0.06  x Wt)mL/m = 5  microgram/kg/min	Glucose 10%		
	>20kg	250mg/50mL	$(0.00 \times Wt)mL/m = 5 microgram/kg/min$			
	>20kg	250mg/50mL				

STANDARD CONCENTRATION DRUG LIBRARY TSCUH (short version)*				Actual Rate = Actual Dose X Default Rate		
*Pofor to PICLI full library for complete list of Drugs and Concentrations			(mL/hour)	Default Dose		
Relef to Pl	CO TUIL library for	complete list of Drugs	and Concentrations			
Drug	Weight	SCI (Normal)	Flow Rate Calculator Default rate = Default dose All weights in kg	Diluent	Usual Dose Range	
Dopamine (Central)	≤2.5kg >2.5 - ≤5kg >5 -≤10kg	75mg/50mL 150mg/50mL 150mg/50mL	(0.2 x Wt)mL/hr = 5 microgram/kg/min (0.1 x Wt)mL/hr = 5 microgram/kg/min (0.1 x Wt)mL/hr = 5 microgram/kg/min (0.6 x Wt)mL/hr = 5 microgram/kg/min	Glucose 5%w/v NaCl 0.9%w/v Glucose 10%	2-20microgram/kg/min	
	>10 - 520kg >20kg	250mg/50mL 250mg/50mL	(0.06 x Wt)mL/hr = 5 microgram/kg/min (0.06 x Wt)mL/hr = 5 microgram/kg/min			
Dopamine (Peripheral)	All	75mg/50mL	(0.2 x Wt)mL/hr = 5 microgram/kg/min	Glucose 5%w/v NaCl 0.9%w/v	2-20microgram/kg/min	
Esmolol (CVC ideally)	<mark>≤2.5kg</mark> >2.5 - ≤5kg All >5kg O	10mg/mL(neat) 10mg/mL(neat) 10mg/mL(neat) R 2500mg/250mL (Infusom	(0.3 x Wt)mL/hr = 50 microgram/kg/min nat)	n/a	50-200 microgram/kg/min	
Glyceryl Trinitrate (Central Line Only)	<mark>≤2.5kg</mark> >2.5 - ≤5kg All >5kg	20mg/50mL 20mg/50mL 50mg/50mL	(0.15 x Wt)mL/hr = 1 microgram/kg/min (0.15 x Wt)mL/hr = 1 microgram/kg/min (0.06 x Wt)mL/hr = 1 microgram/kg/min	Glucose 5%w/v NaCl 0.9%w/v	0.2-10microgram/kg/min	
Insulin (Non-DKA)	≤2.5kg >2.5 - ≤5kg >5 -≤10kg >10 - ≤20kg >20kg	Sunit/50mL Sunit/50mL 20unit/50mL 50unit/50mL 50unit/50mL	(0.1 x Wt)mL/hr = 0.01 units/kg/hr (0.1 x Wt)mL/hr = 0.01 units/kg/hr (0.025 x Wt)mL/hr = 0.01 units/kg/hr (0.01 x Wt)mL/hr = 0.01 units/kg/hr (0.01 x Wt)mL/hr = 0.01 units/kg/hr	NaCl 0.9%w/v	0 -0.1unit/kg/hr	
Insulin (DKA)	All	50unit/50mL	(0.1 x Wt)mL/hr = <b>0.1</b> units/kg/hr	NaCl 0.9%w/v	0 -0.1unit/kg/hr	
Isoprenaline (Weight Based) All >5kg also offered non-weight based dosing option (Lower conc for short/low dose infusions)	<mark>≤2.5kg</mark> >2.5 - ≤5kg <b>&gt;5 -≤10kg</b> >10 - ≤20kg	0.2mg/10mL 0.4mg/20mL 1mg/50ml 1mg/50ml	(0.15 x Wt)mL/hr = 0.05 microgram/kg/min	Glucose 5%w/v NaCl 0.9%w/v	0.02-0.5microgram/kg/min (neonate) 0.02-1microgram/kg/min (non-neonate)	
Isoprenaline NON-Wt Based (Lower conc for short/low dose infusions)	<mark>&gt;5 -≤10kg</mark> >10 - ≤20kg >20kg	1mg/50ml	3mL/hr = 1 microgram/min (Non-Wt based dosing)	Glucose 5%w/v NaCl 0.9%w/v	1-20mcg/min (Non-Wt based dosing)	
Ketamine (CVC ideally)	≤2.5kg >2.5 - ≤5kg >5 -≤10kg >10 - ≤20kg >20kg	50mg/50mL 50mg/50mL 50mg/50mL 100mg/50mL 200mg/50mL	(0.12 x Wt)mL/hr = 2 microgram/kg/min (0.12 x Wt)mL/hr = 2 microgram/kg/min (0.12 x Wt)mL/hr = 2 microgram/kg/min (0.06 x Wt)mL/hr = 2 microgram/kg/min (0.03 x Wt)mL/hr = 2 microgram/kg/min	NaCl 0.9%w/v Glucose 5%w/v	Analgesia: 0-7microgram/kg/min Sedation: 5-20microgram/kg/min	
Labetalol	All	50mg/50mL OR 500mg/500ml	(0.5 x Wt)mL/hr = 0.5 mg/kg/hour	NaCl 0.9%w/v Glucose 5%w/v	0.5-3mg/kg/hr Pts >12yrs (30-120mg/hour)	
Lidocaine - Pain	All >5kg only	5mg/mL	(0.3 x Wt)mL/hr = 1.5 mg/kg/hour	Glucose 5%w/v NaCl 0.9%w/v	1.5 - 4mg/kg/hour	

STANDARD CONCENTRATION DRUG LIBRARY TSCUH (short version)*				Actual Rate = Actual Dose X Default Rate		
*Refer to PI	*Refer to PICU full library for complete list of Drugs and Concentrations				Default Dose	
Drug	Weight	SCI (Normal)	Flow Rate Calculator Default rate = Default dose All weights in kg	Diluent	Usual Dose Range	
Mannitol 20% (100g/500mL)		10g/50mL (<10kg only)		n/a	0.5 -1g/kg over 30 mins	
	All		VTBI for 1g/kg dose = (5 x Wt)mL			
		100g/500mL (All >5kg only)				
Midazolam	≤2.5kg	10mg/50mL	(0.3 x Wt)mL/hr = 1 microgram/kg/min	Glucose 5%w/v	Sedation:	
	>2.5 - ≤5kg	25mg/50mL	(0.12 x Wt)mL/hr = 1 microgram/kg/min	NaCl 0.9%w/v	0-4microgram/kg/min	
	>5 -≤10kg	50mg/50mL	(0.06 x Wt)mL/hr = 1 microgram/kg/min	Glucose 10%w/v	Status Epilep:	
	>10 - ≤20kg	50mg/50mL	(0.06 x Wt)mL/hr = 1 microgram/kg/min		0-24microgram/kg/min	
	>20kg	100mg/50mL	(0.03 X Wt)mL/hr = 1 microgram/kg/min			
Midazolam (Infusomat)	>20kg ONLY	5mg/ml Neat (Infusomat) (In empty 250ml, bag)	(0.012 x Wt)mL/hr = 1 microgram/kg/min	n/a	As above	
Milrinone Maintenance	≤2.5kg	5mg/50mL	(0.3 x Wt)mL/hr = 0.5 microgram/kg/min	Glucose 5%w/v	0.25-0.75	
	>2.5 - ≤5kg	5mg/50mL	(0.3 x Wt)mL/hr = 0.5 microgram/kg/min	NaCI 0.9%w/v	microgram/kg/min	
	>5 -≤10kg	10mg/50mL	(0.15 x Wt)mL/hr = 0.5 microgram/kg/min		5 5	
	>10 - ≤20kg	20mg/50mL	(0.075 x Wt)mL/hr = 0.5 microgram/kg/min			
	>20kg	50mg/50mL (Neat)	(0.03 x Wt)mL/hr = 0.5 microgram/kg/min			
	-					
Milrinone Load	≤2.5kg	5mg/50mL	VTBI for 50microgram/kg dose = (0.5 x Wt)mL	Glucose 5%w/v	50-75mcg/kg	
	>2.5 - ≤5kg	5mg/50mL	VTBI for 50microgram/kg dose = (0.5 x Wt)mL	NaCI 0.9%w/v	over 30 mins	
	>5 -≤10kg	10mg/50mL	VTBI for 50microgram/kg dose = (0.25 x Wt)mL			
	>10 - ≤20kg	20mg/50mL	VTBI for 50microgram/kg dose = (0.125 x Wt)mL			
	>20kg	50mg/50mL (Neat)	VTBI for 50microgram/kg dose = (0.05 x Wt)mL			
Morphine	≤2.5kg	2.5mg/50mL	(0.4 x Wt)mL/hr = 20 microgram/kg/hour	Glucose 5%w/v	Neonate:	
•	>2.5 - ≤5kg	5mg/50mL	(0.2 x Wt)mL/hr = 20 microgram/kg/hour	NaCI 0.9%w/v	0-20microgram/kg/hr	
	>5 -≤10kg	10mg/50mL	(0.1 x Wt)mL/hr = 20 microgram/kg/hour	Glucose 10%w/v	>1mth old:	
	>10 - ≤20kg	20mg/50mL	(0.05 x Wt)mL/hr = 20 microgram/kg/hour		0-40microgram/kg/hr	
	>20kg	50mg/50mL	(0.02 x Wt)mL/hr = 20 microgram/kg/hour		5 5	
Noradrenaline	≤2.5kg	1mg/50mL	(0.15 x Wt)mL/hr = 0.05 microgram/kg/min	NaCl 0.9%w/v	0 -0.1microgram/kg/min	
	>2.5 - ≤5kg	1mg/50mL	(0.15 x Wt)mL/hr = 0.05 microgram/kg/min	Glucose 5%w/v		
	>5 -≤10kg	3mg/50mL	(0.05 x Wt)mL/hr = 0.05 microgram/kg/min			
	>10 - ≤20kg	6mg/50mL	(0.025 x Wt)mL/hr = 0.05 microgram/kg/min			
	>20kg	6mg/50mL	(0.025 x Wt)mL/hr = 0.05 microgram/kg/min			
Paracetamol under 10kg (Perfusor ONLY)	≤10kg	10mg/mL	VTBI for 7.5mg/kg dose = (0.75 x Wt)mL	n/a	7.5mg/kg/15min	
Paracetamol 10kg and over	>10 - ≤20ka	10mg/mL	VTBI for 15mg/kg dose = (1.5 x Wt)mL	n/a	15mg/ka/15min	
(Perfusor ONLY)	>20kg	J J		n/a	0.0	
Parasatamal 22 50kg	> 20kg	10mg/ml	$\sqrt{TP}$ for $\frac{15mg}{kg}$ doop $-(1.5 \times)^{1/4}$	n/o	1Ema/ka/1Emin	
Paracetamol 33 - 50kg		iong/mL	V I D I I O I I D I I O I D I D I O I O	n/a	iong/kg/15min	
(Infusomat ONLY)	UNLY					
Paracetamol 1g (>50kg ONLY)	>20kg	10mg/mL	VTBI for 1g = 100mL	n/a	1g/15min	
(Infusomat ONLY)	ONLY					
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STANDARD CONCENTRATION DRUG LIBRARY TSCUH (short version)*				Actual Rate = Actual Dose X Default Rate		
*Defer to DICI I full librory for complete list of Driver and Concentrations				(mL/hour)	Default Dose	
*Refer to Plo	CU full library for	r complete list of Drugs	and Concentrations			
Drug	Weight	SCI (Normal)	Flow Rate Calculator	Diluent	Usual Dose Range	
			Default rate = Default dose			
Phenylenhrine	<2.5kg	1mg/50ml	All weights in kg	Glucose 5%w/v	0-4microgram/kg/min	
(CVC only)	>2.5 - <5kg	1mg/50mL	(0.15  x Wt)mL/m = 0.05  microgram/kg/min	NaCL 0.9%w/v	0-4microgram/kg/mm	
(eve enily)	>5 -≤10kg	1mg/50ml	$(0.15 \times Wt)mL/hr = 0.05 microgram/kg/min$		(Caution: bolus for >20kg	
	>10 - ≤20kg	3mg/50mL	(0.05  x Wt)mL/hr = 0.05 microgram/kg/min		is in mcgs (NOT mcg/kg)	
	>20kg	3mg/50mL	(0.05 x Wt)mL/hr = 0.05 microgram/kg/min			
		_				
Propofol 1% (PICU)	All	10mg/mL	(0.2 x Wt)mL/hr = 2 mg/kg/hour	n/a	0-4mg/kg/hr	
		(Max duration 12hrs)				
	A 11	10				
Proporoi 1% (THEATRE)	All	10mg/mL	$(0.4 \times vvt)mL/nr = 4 mg/kg/nour$	n/a		
Remifentanil	≤2.5kg	1ma/50mL	(0.3 x Wt)mL/hr = 0.1 microgram/kg/min	Glucose 5%w/v	0.05-0.2microgram/kg/min	
	>2.5 - ≤5kg	1mg/50mL	(0.3  x Wt)mL/hr = 0.1 microgram/kg/min	NaCl 0.9%w/v	••••• •·=····•• • g. =····· · g. ·····	Caution: Risk of
	>5 -≤10kg	2mg/50mL	(0.15 x Wt)mL/hr = 0.1 microgram/kg/min			alternative
	>10 - ≤20kg	2mg/50mL	(0.15 x Wt)mL/hr = 0.1 microgram/kg/min			concentration at the
	>20kg	2mg/50mL	(0.15 x Wt)mL/hr = 0.1 microgram/kg/min			pump. (New in
						2018).
Salbutamol	≤2.5kg	10mg/50mL	(0.3 x Wt)mL/hr = 1 microgram/kg/min	Glucose 5%w/v	0-5microgram/kg/min	
(If select neat - then via CVC only)	>2.5 - ≤5kg	10mg/50mL	(0.3 x Wt)mL/hr = 1 microgram/kg/min	NaCI 0.9%w/v		
	>5 -≤10kg	10mg/50mL	(0.3 x Wt)mL/hr = 1 microgram/kg/min			
	>10 - ≤20kg	10mg/50mL	(0.06 x Wt)mL/hr = 0.2 microgram/kg/min*		*lower default start	
>20kg Also offered non-weight based option	>20kg	10mg/50mL	(0.06 x Wt)mL/hr = 0.2 microgram/kg/min*		*lower default start	
	001	10 /50 1		01 594 4		
Salbutamol NON-weight based	>20kg	10mg/50mL	1.5mL/hr = 5 microgram/min	Glucose 5%w/v	3-20microgram/min	
(If select neat - then via CVC only)	A 11	OF mm ol/FOml	(Non-Wt based dosing)	NaCI 0.9%W/V	(Non-Wt based dosing)	
Sodium Chioride 3%	All	250mmol/500ml	VIBIOLIT.SHINO/Kg dose = (3 x Wt)IIL	n/a	1-2mmol/kg	
	>20kg	250mmol/500mL			Note: 1mmol – 2ml	
	>20kg	23011110/30011L				
Sodium Nitroprusside	≤2.5kg	25mg/50mL	(0.06 x Wt)mL/hr = 0.5 microgram/kg/min	Glucose 5%w/v	0 -8microgram/kg/min	
	>2.5 - ≤5kg	25mg/50mL	(0.06 x Wt)mL/hr = 0.5 microgram/kg/min		• • • • • • • • • • • • • • • • • • •	
	>5 -≤10kg	50mg/50mL	(0.03 x Wt)mL/hr = 0.5 microgram/kg/min			
	>10 - ≤20kg	50mg/50mL	(0.03 x Wt)mL/hr = 0.5 microgram/kg/min			
	>20kg	50mg/50mL	(0.03 x Wt)mL/hr = 0.5 microgram/kg/min			
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Tranexamic Acid	All	100mg/mL (Neat)	(0.01 x Wt)mL/hr = 1 mg/kg/hour	Usual conc.	1-10mg/kg/hour	Caution: Risk of
Continuous		High strength	At usual TSCUH dose:	in TSCUH is		selection error
(Loading dose offered at beginning of infusion)			(0.1 x Wt)mL/hr = 10mg/kg/hour	NEAT		with alternative
Tropox Acid W/t based Slow Bol	All	100mg/mL (Noot)	VTPL for 10mg/kg doop = (0.1 x W/t)mL	Usual conc.	10.100mg/kg	concentration at
(Nen Continuous)	All	High strongth	VIBIOR TOMO/Kg dose = (0.1 X Wt)mL		TO-TOOMg/kg	the pump. (New
20kg also offered non-weight based option				INEAT		in 2018).
Tranexamic Acid 1-2g NON-Weight Based	>20kg	100mg/mL (Neat)	VTBI for 1g dose = 10mL	n/a	1a -1.5a over 15 mins	
(Non-Continuous)	01/9	(Hour)			.9	
(,						
Vasopressin	≤5kg	5unit/50mL	(0.3 x Wt)mL/hr = 0.5 mUnit/kg/min	Glucose 5%w/v	0.3- 2mUnit/kg/min	
	>5 -≤10kg	20unit/50mL	(0.075 x Wt)mL/hr = 0.5 mUnit/kg/min	NaCl 0.9%w/v	0.0003 - 0.002Units/kg/min	
	>10 - ≤20kg	50unit/50mL	(0.03 x Wt)mL/hr = 0.5 mUnit/kg/min		-	
	>20kg	50unit/50mL	(0.03 x Wt)mL/hr = 0.5 mUnit/kg/min		Note:	
			Note : 1mUnit = 0.001unit		1mUnit = 0.001unit	