

Epinephrine

(Adrenaline)

Sympathomimetic causing increased cardiac output and vasoconstriction.

Indication: Undifferentiated shock; refractory anaphylaxis

Presentation: Epinephrine 5mg in 5ml, or 10mg in 10ml, vial

Preparation:

Administration via central line: 4mg made up to 50ml with 5% Dextrose (Add 4mg Epinephrine to 46 ml of 5% dextrose)

Concentration: 0.080 mg / ml = 80 micrograms / ml

Peripheral iv administration: 4mg made up to 250ml with 5% dextrose (Add 4mg Epinephrine to 246ml of 5% dextrose)

Concentration: 0.016mg / ml = 16 micrograms / ml

CAUTION: Peripheral venous access should ideally be of size 20G or more; be sited proximal to the wrist in the arm; avoid sites of flexion in awake patients; avoid sites requiring more than one venepuncture; and there should be a return of blood following insertion and flush easily with 5-10mL of 0.9% sodium chloride.

Infusion rate: Commence at 0.1 micrograms / kg / min and titrate according to clinical response. Target MAP 65mmHg

Estimated weight	Starting dose 0.1micrograms / kg / min	Central infusion rate (4mg / 50ml)	Peripheral infusion rate (4mg / 250ml)
40kg	240 mcg / hour	3 mls / hour	15 mls / hour
50kg	300 mcg / hour	3.8 mls / hour	18.8 mls / hour
60kg	360 mcg / hour	4.5 mls / hour	22.4 mls / hour
70kg	420 mcg / hour	5.2 mls / hour	26 mls / hour
80 kg	480 mcg / hour	6 mls / hour	30 mls / hour
90 kg	540 mcg / hour	6.8 mls / hour	34 mls / hour
100kg	600 mcg / hour	7.4 mls / hour	37 mls / hour
110kg	660 mcg / hour	8.2 mls / hour	41 mls / hour