









“Mirror, mirror on the wall, Which TCI model is the fairest of them all?”

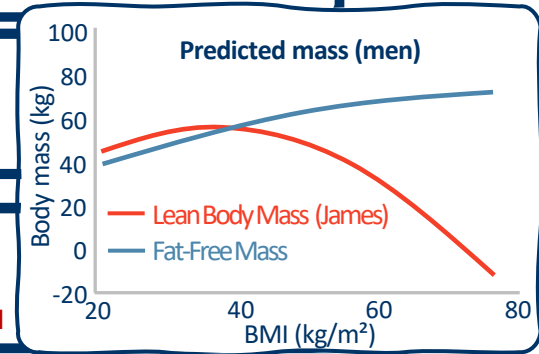


Propofol



Remifentaniil

Marsh	 $\geq 16y/o \leq 150kg$ TBW	C_{pt} or modified Marsh C_{et} ('fast' k_{e0} 1.21) Large $V_1 \rightarrow \uparrow$ induction dose TBW only factor – mg/kg/hr same for all Overdoses in \uparrow BMI – consider adjusted BW
Schnider	 BMI $\text{♀} < 35 \text{ ♂} < 42$ LBM (TBW, ht, sex) TBW, ht Age	C_{et} with \uparrow targets (k_{e0} from TTPE 1.6 min) \downarrow dose cf. Marsh Fixed $V_1 \rightarrow$ slow C_{pt} induction James eq. for LBM \rightarrow wt limits (see graph) Underdoses in \uparrow BMI, overdoses in \downarrow BMI
Eleveld	 FFM (TBW, ht, sex) Ht, sex, age Postmenstrual age (<6 mo) Concomitant opioids	C_{et} suggested Induction: \uparrow Marsh C_{pt} & Schnider; \leftrightarrow Marsh C_{et} Elderly: \downarrow Marsh, \leftrightarrow Schnider; \uparrow BMI: in between Better in extremes; \downarrow variability \downarrow familiarity
Paedfusor	 $1-16y/o \ 5-61kg$ TBW Age	$\uparrow V_1$ cf. adults $V \propto$ weight Widely used \uparrow BMI?
Minto	 $\geq 12y/o \ \geq 30kg$ BMI $\text{♀} < 35 \text{ ♂} < 42$ LBM (TBW, ht, sex) Age	C_{pt} or C_{et} Widely used James eq. Underdoses in \uparrow BMI
Eleveld	 FFM (TBW, ht, sex) Ht, sex, age Postmenstrual age (<6 mo)	C_{pt} less likely to overdose in older & \uparrow BMI Few \uparrow BMI pts in studies May overdose in $< 2y/o$ & $< 30y/o$ with BMI > 40 \downarrow familiarity



PERUSE before you Infuse: The safest model is the one you know!