













Slide		A population approach to evaluation
20	 Morphine External evaluation Patients: 257 human morphine 'observed' CL Age: 24 PMA week to 91 year Target: 10 mcg/L Acceptable: if Jose <= 25% ideal Unacceptable: if >= than 100% 	of the predictions of morphine clearance showed that the theory based allometric model proposed by Anand et al. was somewhat better than standard empirical textbook recommendations. All the empirical models for prediction were unacceptable for some age group. 1Holford NHG, Ma S, Anderson BJ. Prediction of morphine dose in humans. Pediatric Anesthesia. 2011;Accepted
	PMA years PAA 10 d Knibbe 37 33 -4 24 224 * Net Ventilated	Reich A, Beland B, Van Aken H. Intravenous narcotics and analgesic agents. In: Pediatric Anesthesia, eds. Bissonnette B, Dalens B, London McGraw-Hill, 2002. Wang C, Peeters MYM, Allegaert K, Tibboel D, Danhof M, Knibbe CAJ.
		scaling clearance of proport norm preterm neonates to adults using an allometric model with a bodyweight- dependent maturational exponent [www.page- meeting.org/?abstract=1818]. PAGE 2010; 19. Knibbe CA, Krekels EH, van den Anker JN, DeJongh J, Santen GW, van Dijk M, Simons SH, van Lingen RA, Jacqz-Aigrain EM, Danhof M, Tibboel D. Morphine glucuronidation in preterm neonates, infants and children younger than 3 years. Clin Pharmacokinet 2009; 48: 371-85. Mahmood I. Prediction of drug clearance in children from adults: a comparison of several allometric methods. Br J Clin Pharmacol 2006; 61: 545-57.
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