Conversions – Children's Dosages

Chapter 6 Worksheet G

You'll need to memorize the following formulas:

Clark's Rule:	***Young's Rule:***	***BSA Method:***
$\frac{\text{Child's Weight (lbs)} \times \text{Adult Dose}}{150}$	$\frac{\text{Child's Age} \times \text{Adult Dose}}{\text{Child's Age} + 12}$	$\frac{\text{BSA } (m^2) \times \text{Adult Dose}}{1.73}$

1a) A 4-year-old child weighing 46 lbs and a surface area of 0.44 m^2 is given a prescription for mycophenolic acid. The adult dose for mycophenolic acid is 360 mg. According to Clark's Rule what is the appropriate dose?

A) 110.4 mg
B) 84.7 mg
C) 91.6 mg
D) 95.3 mg

1b) According to Young's Rule what is the appropriate dose?

A) 110.4 mg
B) 84.7 mg
C) 90 mg
D) 95.3 mg

1c) According to the Surface Area Rule what is the appropriate dose?

A) 110.4 mg
B) 84.7 mg
C) 91.6 mg
D) 95.3 mg

2a) A 5-year-old child weighing 40 lbs and a surface area of 0.49 m^2 is given a prescription for trazodone. The adult dose for trazodone is 150 mg. According to Clark's Rule what is the appropriate dose?

A) 42.5mg
B) 44.1mg
C) 40mg
D) 43.5mg

2b) According to Young's Rule what is the appropriate dose?

A) 42.5mg
B) 44.1mg
C) 40mg
D) 43.5mg

2c) According to the Surface Area Method what is the appropriate dose?

A) 42.5 mg
B) 44.1 mg
C) 40 mg
D) 43.5 mg

3a) A 13-year-old child weighing 140 lbs and a surface area of 1.42 m^2 is given a prescription for APAP. The adult dose for APAP is 650 mg. According to Clark's Rule what is the appropriate dose?

A) 542.3 mg
B) 533.5 mg
C) 497.1 mg
D) 606.7 mg

3b) According to Young's Rule what is the appropriate dose?

A) 338.0 mg
B) 533.5 mg
C) 497.1 mg
D) 606.1 mg

3c) According to the Surface Area Method what is the appropriate dose?

A) 542.3 mg
B) 533.5 mg
C) 497.1 mg
D) 606.1 mg

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