Administration Worksheet

Metric Conversions

cm= in. x 2.54

In. = cm ÷ 2.54

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kg = lbs ÷ 2.2

lbs = kg x 2.2

Question 1

Charlie Brown: Height is 6' 5" (77 inches)

Weight is 250 lbs.

a. **Convert height to cm.**

b. **Convert weight to kg**

c. **BSA: Calculate Charlie's BSA using both the metric and English calculations.**

Metric

$$\sqrt{\frac{\text{ht in cm} \times \text{wt in kg}}{3600}}$$

English

$$\sqrt{\frac{\text{ht in inches} \times \text{wt in lbs}}{3131}}$$

Question 2

Cindy Lou Who:

Height is 5' 8" (68 inches)

Weight: 165 lbs.

a. **What is Cindy's height in cm?**

b. What is Cindy's weight in kilograms?

c. **BSA: Calculate Cindy's BSA using both the metric and English calculations.**

Metric

$$\sqrt{\frac{\text{ht in cm} \times \text{wt in kg}}{3600}}$$

English

$$\sqrt{\frac{ht\ in\ inches\ \times wt\ in\ lbs}{3131}}$$

Question 3

Drug ordered: topotecan 1.5 mg/m^2

Charlie Brown: BSA 2.48 m^2

What is Charlie's dose ?

Question 4

Drug ordered: paclitaxel 80 mg/m^2

Cindy Lou Who: BSA 1.89 m^2

a. **What is Cindy's dose ?**

Question 5

Carboplatin Dosing Practice Question

Mr. Miller is a 61-year-old male who presents to the treatment area for his first dose of chemotherapy. His height is 183 cm, and his weight today is 95 kg. Vitals are stable and labs are unremarkable and include a serum creatinine of 1.2mg/dL. The order for carboplatin includes an area under the curve (AUC) of 4. Calculate Mr. Miller's carboplatin dose.

a. **Creatinine Clearance: Male**

$$CrCl = \frac{(140-age) \times kg}{72 \times Serum\ Cr}$$

b. Calvert Formula:

Fast forward 3 months, Mr. Miller had a gradual weight loss and the new calculated dose of carboplatin is 400.1 mg. Can we proceed with administering the 447.6 dose?

What is an acceptable range Mr. Miller would be able to still receive the original dose?