

Administration Worksheet**Question 1**

Charlie Brown:

Height: 195.5 cm

Weight: 113 kg

- a. **BSA: Calculate Charlie's BSA using the Mosteller formula**

Mosteller formula

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

Question 2

Cindy Lou Who:

Height: 172 cm

Weight: 75 kg

- a. **BSA: Calculate Cindy's BSA using the Mosteller formula**

Mosteller formula

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

Question 3

Drug ordered: topotecan 1.5 mg/m^2

Charlie Brown: BSA 2.48 m^2

What is Charlie's dose?

Drug dose = Ordered dose x BSA

Question 4

Drug ordered: paclitaxel 80 mg/m^2

Cindy Lou Who: BSA 1.89 m^2

What is Cindy's dose?

Drug dose = Ordered dose x BSA

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

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

$$72 \times \text{Serum Cr}$$

b. Calvert Formula:

$$\text{Carbo dose in mg} = \text{AUC} \times (\text{CrCl} + 25)$$

Question 6

Fast forward 3 months, Mr. Miller had a gradual weight loss. With the patient's current weight, you calculate the carboplatin dose to be 400.1 mg. What is the safe administration range?

Calculate the safe administration range with the 10% Rule:

Method 1:

Upper Limit = your dose x 1.10

Lower Limit = your dose x 0.90

Method 2:

10% = your dose x 0.1

Upper Limit = your dose + 10%

Lower limit = your dose – 10%

Can we proceed with administering the ordered dose of 447.4mg?