

# **Bridging Drug Efficacy and Safety to the Obese: Considerations and Scientific Approaches**

**Panel Discussion**  
**3:10 PM - 4:00 PM**

# Panelists



**Moderator - Varsha Mehta, Pharm.D., MS**

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**Panelists:**

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# Panel Reflections

- Panelists' reflection considering today's workshop objectives

## **Workshop Objectives:**

1. Review the implications of obesity on drug safety, efficacy, dosing and disposition in adult and pediatric patients.
2. Discuss:
  - a. If adult and pediatric patients should be identified and studied as a specific population in new drug development programs
  - b. When it may be appropriate to include obese patients in drug development studies to develop specific dosing guidelines for obese patients

# Panel Question 1

- Currently there is a regulatory requirement to study patients with renal or hepatic failure as a specific population in clinical trials
- Should **Obesity** be considered a specific patient population like renal and hepatic failure, or should it be included as a diverse population akin to racial, ethnic, and gender diversity?

# Panel Question 2



- Clinical trials use Body Mass Index (BMI), Weight (actual or lean) or both to categorize and recruit participants
- Is assessing the most extreme BMIs or weights (e.g. Morbidly Obese) ‘good enough’ as an extreme or worst-case scenario, or does each category above the “normal” BMI or weight need to be assessed, like the stages of renal impairment (with mild, moderate, severe, or end-stage renal disease (ESRD) stages) or hepatic impairment?

## Panel Question 3

- What is an appropriate time during a drug development program to address drug disposition in the obese?

## Panel Question 4

- Can Physiologically-Based Pharmacokinetic data act as a surrogate for actual clinical trial data in understanding drug disposition in the obese?

# Panel Question 5

- In the renal failure population, studies in dialysis patients are performed as part of the drug development program.
- Similarly, beyond obesity, should the follow-up studies also be incorporated in clinical research programs to evaluate drug PK/PD in specific obese populations such as those with gastric bypass procedures? Should such studies be done during drug development?





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