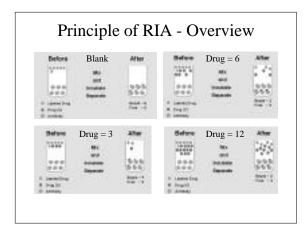
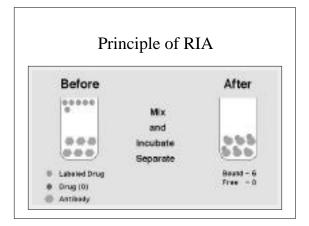
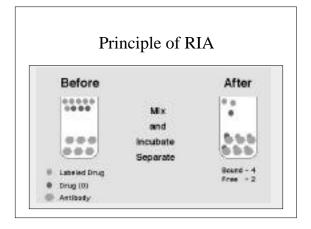
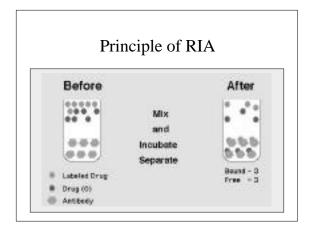
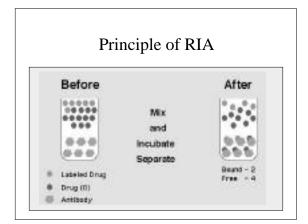
Radioimmunoassay RIA	
Radioimmunoassay  • Separation using the specificity of antibody - antigen binding • Quantitation using radioactivity	
RIA Components of the Assay  Drug Antibody Labelled Drug Mix, incubate, separate free labelled drug Quantitate by measuring radioactivity Determine standard curve	

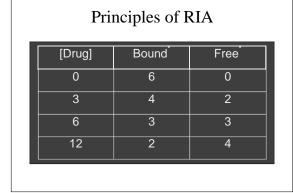












## Procedure

- Mix sample containing drug with fixed quantity of labelled drug and antibody
- Allow to equilibrate incubate
- Separate drug bound to antibody from unbound drug
  - Charcoal adsorption of antibody (and bound drug)
  - Antibody antibody binding precipitates bound drug
  - Antibody bonded to container

## Procedure contd.

- Measure radioactivity associated with bound labelled drug
  - low drug concentration means more bound radioactivity and higher measurement
  - high drug concentration means less bound radioactivity and lower measurement
- Non-linear plot of radioactivity versus concentration
- · Logit-log concentration plot is linear

## Bound versus Concentration