Adverse Events (AEs)

Factors in the "A E" cascade

1. The Test Agent / drug pharmacology

- The class of the drug Actions/effects (PD)
- Expected AE's for the drug class
- Known effects and AE's of the drug
- Drug kinetics (T ½, Tm. Vd etc)
- · Physician experience with the drug

2. The Human Subject

- Age range (infant, child, young adult, adult, elderly e.g.)
- Sex (Male / female)
- Status (Married, single other)
- Weight range (under / target / overweight in terms of %)
- Normal healthy / Disease state
- Number of subjects (10 10K)

3. The Adverse Event

- Nature (sign, symptom, lab result, disease state, environment)
- Relationship to the Test agent
 - i. Related
 - ii. Probably related
 - iii. Possibly related
 - iv. Remotely possibly related
 - v. Unrelated
- Grouping per "MEDRA" or "COSTART"
- Tabulation (time, severity, system)

4. The Decision is made by a physician on the basis of:

- Knowledge of the test agent/drug pharmacology
- Pathophysiology of the disease state if present
- Timing of the AE to exposure to the test agent/drug
- Grouping of AE's in a body system or at a time period
- Study factors
 - i. number of blood draws
 - ii. volume of blood taken for the study
 - iii. ability of the technicians
 - iv. ambient temperature / humidity
 - v. quality of the meals
 - vi. opportunity for socialization
 - vii. group dynamics