Addressing Researcher’s Needs

Summer Camp 2010

CAMP CALCULUM 11

6 weeks of Camp between June-August 2010

Camp Calcium is:
• For GIRLS 12-14 and BOYS 13-15 of Mexican-American Descent
• A research project. You will learn how much calcium is needed for building strong bones
• 6 weeks! You will live on Purdue campus for two 3-week periods.
• FUN! You will participate in many activities including sports, science classes, nutrition classes, arts and crafts, field trips
• FREE ROOM and BOARD. Registration fee of $100. You will be paid for participation in our research project.

For more information and an application packet contact:
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www.cfs.purdue.edu/efn/campcalcium
1. Recruitment / Enrollment

Recruitment
- Medical History
- Demographic Data
- IRB approval—forms

Enrollment
- Subject ID # assigned
- Treatment Assigned
- Additional Demographic Data
  - Age, Height, DoB
  - BMI
  - Tanner Staging (sex maturity)
  - Anthropometrics (leg length, etc.)

2. Treatment

Two Sessions (each 3 weeks – 2 weeks of data)
- Blood Samples
- Urine Samples
- Fecal Samples
- Bone Density Scans
- Other (Isotopes?)

- Compliance rate of subjects?
- Date when sample collected
- Sample ID
  - Addresses the sequential nature of sample.

3. Sample Processing

Collected Samples are sent out for Processing
- Urine, Fecal, Blood & Total Calcium
- Blood Serum Samples
  - Biochemical Markers – calcium metabolism and bone health
- Vitamin D
- Bone Scans
- Isotopes

4. Data Processing

Issues
- Data Entry
- One person in charge of initial data
- No tracking of who’s done what and when
- Data received via e-mail
- Bottleneck Issues

5. Calculations

- Menu Cycles -> Corresponding Calcium Levels
- Total Calcium Intake
- Urinary Calcium / Creatonine
  - Corrected Urinary Calcium
- Fecal Compliance -> Recoverability in grams and percent.
- Diet minus Urine minus Fecal

6. Data Delivery

Issues
- Need for subsets of data
- Email as the delivery mechanism
- Version Control

7. Analysis

Issues
- Data are made available to collaborators for analysis
- Different people are interested in different aspects of the data -> subsets of the data are created and distributed.
- Analysis includes: linear and non-linear regression, and statistical modeling
- Analysis often done in SAS.

8. Results

Issues
- Presentations / Publication of Journal Articles
  - Publication of Data as an Appendix to Article
  - Publication of Data in a Repository
- Funder’s Requirements for Data Management, Dissemination and Preservation
- Submission to a Data Repository

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Camp Calcium – Current Data Workflow
Metadata Fields