

Biostatistics, Epidemiology & Research Design (BERD) Success

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BERD Mission

- An Intellectual Resource to
 - Consult
 - Collaborate
 - Develop Methodology as needed
 - Participate in CTSA Training/Education
- Goal is to improve translational research
 - From bench to bedside
 - From bedside to “curb side”

Resource Network: CTSpedia

CTSpedia.org

- Today, no biostatistician can know the full breadth of theory & methodology
- Same is true for clinical trial colleagues
- Need to reach out to colleagues for experience, methods and software
- UCSF, UC Davis, Vanderbilt, Wash U, Rockefeller, et al developed a one stop shop web site for design, conduct & analysis
 - References
 - Software
 - Educational Material
- “Ask the expert” feature
- Continuing development, still many gaps
- Each institution can save effort by pooling in this way

Network of Networks

- Many academic centers work in cancer CT networks
- Outside cancer, not many standing CT networks
- Power of CTSA is to facilitate quickly building targeted networks
- Many might continue beyond initial study
- Early examples already exist

CTSA CT Networks

- Scripts Translational Science Institute-
 - Remote wireless monitoring for CHF
 - “Band Aid” sensor measures fluid status, heart rhythm, respiratory rate, etc
 - Goal to prevent hospital readmissions
- UT-Houston Health Science Center
 - Network of 9 CTSA sites + 1 Military Site
 - Study (PROMMTT) of 1200 trauma patients needing massive transfusions
 - Goal is to improve care
 - Utilized IT to link sites online real time to collect data on timing and delivery
 - Collaboration between Biostat and BioInformatics

CTSA CT Networks

- Statin Trial for Influenza Patients (STIP)
- Vanderbilt CTSA Biostat Resource involved
- Helped design RCT to be conducted in CTSA network
- Used novel Bayesian/likelihood methods for continual data monitoring