

UAMS

UNIVERSITY OF ARKANSAS
FOR MEDICAL SCIENCES



Research Support Information Network (RESIN)

Presented by: Office of the Vice Chancellor for Research

Date: April 4, 2017



Agenda

■ Updates & Timely Information from Research Support:

- ⊕ Office of the VCR
 - RSC
 - IRB
 - IACUC
 - TRI
- ⊕ Biostatistics
- ⊕ BioVentures
- ⊕ Operational Health & Safety
- ⊕ SciCom
 - ORSP
 - ORRA
 - DLAM
- ⊕ OSPAN
- Core Facilities
- ⊕ Biomedical Informatics



UAMS Cohort Estimation Tool

Ahmad Baghal, MD, MS
Director of AR-CDR

A self-service, web-based cohort discovery tool to determine study feasibility or discover patient cohorts during the “preparatory to research” phase by obtaining counts of patients based on inclusion and/or exclusion criteria.



UAMS Cohort Estimation Tool

Ahmad Baghal, MD, MS
Director of AR-CDR

■ UAMS Cohort Estimation Tool (TriNetx)

■ Background

- Network of Health Care Providers, Pharma, and CROs
- Aggregated information of ~31 million patients from 21 Health Care Organizations – as of December 2016

■ Number of Patients (December 2016)

- TriNetx: ~ 31 million
- UAMS: ~ 307,000



UAMS Cohort Estimation Tool

Ahmad Baghal, MD, MS
Director of AR-CDR

- **UAMS Cohort Estimation Tool (TriNetx)**
 - UAMS belongs to the medium size Health Care Organization in the TriNetx network
 - UAMS has relative strength in some diagnoses of interest for the pharmaceutical industry
 - Alzheimer's
 - Lung cancer
 - Non-Hodgkin lymphoma
 - Macular degeneration
 - Heart failure
 - Hypertension



UAMS Cohort Estimation Tool

Ahmad Baghal, MD, MS
Director of AR-CDR

- **UAMS Cohort Estimation Tool (TriNetx)** (cont.)
 - Data are de-identified
 - Surrogate patient identifiers
 - Dates are shifted by some number of days
 - Patients older than 89 are recorded as 90 years
 - True patient counts are obfuscated
 - If count is less than 10, then result is < 10



UAMS Cohort Estimation Tool

Ahmad Baghal, MD, MS
Director of AR-CDR



Results & Analysis

SSSS

Ahmad Baghal Lo

My Studies Network View

50,160 Patients
1 Site

Count Patients

University of Arkansas for ...
1 of 1 online

Explore Cohort

Analyze Criteria

Estimate Arrival Rate

Export IDs

Must Have

Cannot Have

Population any age / any gender (985,150)

All changes s

B95-B97 Bacterial and viral infectious agents 50,160

Event 1 - The terms in this event occurred before 12 months ago Add Dependent Event

4/4/2017

7



UAMS Cohort Estimation Tool

Ahmad Baghal, MD, MS
Director of AR-CDR



Back To Query Builder

SSSS

Ahmad Baghal Log

My Studies Network View Query Builder

50,160 1

Unnamed Must Have: Bacterial and viral infectious agents Event 1 - The terms in this event occurred before 12 months ago

Patients Site
University of Arkansas for Medi...

Cohort

Mar 08, 2017 13:58 50,160 / 1

Run Again

Criteria Analysis

Arrival Rate

Demographics

Sites

Diagnoses

Procedures

Medications

Labs

Genomics

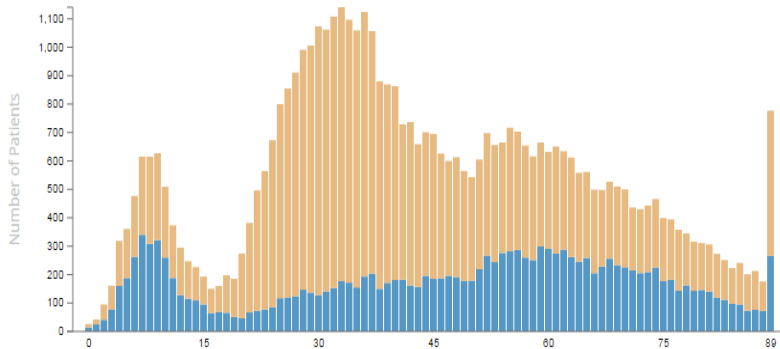
50,160

Patients

Demographic Data for Patients in Cohort

Age [any]

Months (0-36) Years (0-89) Grouped Stacked Male Female



Age (years)

Patients 90 and over: 792

Gender

Female 69%
Male 31%
Unknown Gender 0%



Race

White 52%
Black or African Am... 36%
Unknown Race 12%
Asian 1%
American Indian or... 0%
Native Hawaiian or ... 0%



Ethnicity

Unknown Ethnicity 100%
Not Hispanic or Lat... 0%
Hispanic or Latino 0%



	Minimum Age	Maximum Age	Mean Age	Standard Deviation
Query Stats	0	90	45	22



AR-Clinical Data Repository

(AR-CDR) Ahmad Baghal, MD, MS

Director of AR-CDR

- Data warehouse of clinical data maintained by Department of Biomedical Informatics specifically enhanced for research purposes
- Epic data is primary data source ~May 2014
- Legacy data ~2002
- Organized to allow aggregation across millions of patient records quickly



AR-Clinical Data Repository

(AR-CDR) Ahmad Baghal, MD, MS

Director of AR-CDR

- **Data can be released to investigators in three ways:**
 - Counts: self- service and requires no IRB approval
 - De-Identified: analyst mediated and requires IRB's "non-human subjects research" determination
 - Identifiable: analyst mediated and requires IRB approval



Update on Biosafety

James Bishop, Biological Safety Officer, OH&S

■ NIH Requirements for BSO

- Periodic inspections to ensure that laboratory standards are rigorously followed (Section IV-B-c-(1))
 - Comparing IBC approval to actual laboratory practices
 - Checking training records
- Provide advice to IBC, IACUC, and PI on research safety



Update on Biosafety

James Bishop, Biological Safety Officer, OH&S

- **All rDNA research must comply with NIH guidelines regardless of funding source**
 - Must have IBC approval before research begins
 - Must remain in communication with IBC throughout the project.
 - Train staff in biosafety
 - Failure to comply may result in suspension, limitation, or termination of funding for noncompliant project and for other NIH funded projects at the institution



Update on Biosafety

James Bishop, Biological Safety Officer, OH&S

■ Training

■ Chem/Lab Safety

- BPP, Hazard Communication, and Fire

■ DOT/IATA Shipping Infectious Substances

- Comply with shipping requirements

■ NIH Guidelines

- rDNA research laboratories

■ Basics of Biosafety



Update on Biosafety

James Bishop, Biological Safety Officer, OH&S

- **James Bishop**

- Biological Safety Officer

- Occupational Health & Safety Office
- Office: 501-603-1288
- Pager: 501-405-7800
- Fax: 501-296-1339
- Email: JEBishop@UAMS.edu



SciCom – Science Communication Group

DeAnn Hubberd, Associate Director

- **Formerly OGSP**

(Office of Grants and Scientific Publications)

- The name change reflects the evolution of our office, as we move under the OSPAN umbrella, eliminate fees, and expand our services to include budget, forms, and preapplication administrative support.



SciCom – Science Communication Group

DeAnn Hubberd, Associate Director

- We will continue to offer editorial and project management services as well as mentoring and workshops, in addition to our new services.
- Please continue to contact DeAnn Hubberd (dehubberd@uams.edu; 686-6004) for SciCom services.



Randomize: A tutorial

J Tang & RD Landes, Biostatistics

■ NIH Rigor and Reproducibility

- Principles and Guidelines for Reporting Preclinical Research
 - Transparency in reporting
 - Randomization

“Journals should... Require authors to state whether the samples were randomized and **specify method of randomization**, at a minimum for all animal experiments.”



Randomize: A tutorial

J Tang & RD Landes, Biostatistics

■ Outline

- Why randomize
- Walk-through examples
- Writing randomization methods
- In-class exercise (time allowing)



Randomize: A tutorial

J Tang & RD Landes, Biostatistics

- **Target Audiences**
 - Graduate students
 - Research staff
 - New investigators
 - Experienced investigators



Randomize: A tutorial

J Tang & RD Landes, Biostatistics

■ Details

- Wednesday, April 19, 2017
- Noon – 1 PM
- I. Dodd Wilson Bldg., 205 A/B

- Or by arrangement after 4/19/2017
 - Contact Reid D. Landes, UAMS Biostatistics



Clinical Trial Billing Support

Renee Raines, Director, OSPAN

- **Centralized CT Billing support**
 - Team support
 - Cancer Trials
 - Non-Cancer Trials
 - EPIC two-tier reviews
 - Sponsor invoicing
 - Financial Management
 - Monthly reporting
 - Financial investigation
 - Account set up and close out



Clinical Trial Billing Support

Renee Raines, Director, OSPAN

- **Created a CT Billing task force**
 - TRI
 - Cancer Institute
 - Myeloma
 - HB/PB
 - Compliance
 - IT (CLARA, EPIC, RPPRS, Patient Study Calendar)
 - Departments (Geriatrics, Psychiatry, Internal Medicine)



Clinical Trial Billing Support

Renee Raines, Director, OSPAN

■ **Contacts**

■ Cancer Clinical Trials

- Chris Golden

■ MIRT

- David Avery

■ Non Cancer Clinical Trials

- Tiffany F. Brown

- Heather Douglas



Clinical Trial Billing Support

Renee Raines, Director, OSPAN

- Creating campus wide SOP for CT billing
 - Tools
 - Workflow
 - Training



Clinical Trial Billing Support

Renee Raines, Director, OSPAN

■ Sub-committee

- Beacon
- EPIC
- Compliance
- Billing review and budget errors



Clinical Trial Billing Support

Renee Raines, Director, OSPAN

- **Creation of Senior Leadership team**
 - Decision makers
 - Help move ideas and changes into action



Clinical Trial Billing Support

Renee Raines, Director, OSPAN





Clinical Trial Billing Support

Renee Raines, Director, OSPAN

Contact

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Student Research Day

Linda Williams, M.S., Research Liaison

■ April 12, 2017 (COPH and IDW)

- 132 Participants (Graduate students, Professional students, Post docs and House staff)
- Lunch (12:00 p.m. – 1:00 p.m.)
- 3 Minute Thesis finals (1:00 – 2:15 p.m.)
- Poster sessions (10:00 – 11:30 a.m.) and (2:30 – 4:00 p.m.)
- SRD Awards Reception (noon – 1:00 p.m.) 10th floor Cancer

■ Keynote speaker – Cato Laurencin, MD, PhD

Regenerative Engineering: Convergence to Address

Grand Challenges; Alfred & Jill Sommer Prof./Chair of the W. Harry

Feinstone Dept. of Molecular Microbiology & Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland



Next RESIN

■ Next RESIN

- **May 2, 2017 @ 12:00 p.m.**
- Location - **Walton Auditorium**, Winthrop P. Rockefeller Cancer Institute, 10th floor
- All RESIN presentations archived on the UAMS Research website
 - http://www.uams.edu/research/RESIN_Achive.asp