

# Proof of Concept Experience

Debbie S. Gipson, MD  
University of Michigan School of Medicine

# AE Use Case 1: Quality Data Set

## Data

- 7 day readmit
- EMR signs and symptoms leading to readmission were abstracted
- Data compared to the terminology database

## Results

1,889 Admissions

3,335 Terms

811 Unique Terms

66% match AE v1

75% match repeats

Terminology Expanded AE v2

94% Match

6% Excluded

*Acknowledgement and gratitude for the assistance of Dr. Richard McClead, (Associate Chief Medical Officer), Dr. Richard Brilli (Chief Medical Officer), Ms. Rhonda L. Comer (General Counsel and Sr. V.P. Legal Services), and a special note of thanks to Dr. Charlotte Jones for taking on the task of procuring the data.*

# Modifications from AE Use Case 1

- Addition of 150 Findings/Diseases added to Peds AE
- Addition of 44 Synonyms added to Peds AE
- Addition of Pediatric Medical Devices Terminology
- Addition of three new codelists from CDISC to Pediatric Terminology
  - 740 Anatomical Locations
  - 32 Directionality
  - 7 Laterality

# AE Use Case 2: Clinical Trial

## Data

- Neonatal Bronchopulmonary Dysplasia Clinical Trial reported AEs
- 145 records; 226 Individual data elements
- 68 Unique data elements

## Results

145 Records

226 Terms

68 Unique Terms

81% match AE v1

89% match repeats

Terminology Expanded AE v2

Change: added 21 terms/findings

*Acknowledgement and gratitude for the assistance of Dr. Jonathon M. Davis, Principal Investigator Phase 2 Study of rhCC10 to Prevent Neonatal Bronchopulmonary*

**Tufts** Medical Center

# Rheumatology Use Case Data Request



- 200-300 records from 2014-2015, which list reasons for visits to the pediatric rheumatology specialty clinic
  - Follow-up visits could include primary diagnoses, e.g. “JIA, came to clinic for flare”
  - Chief complaints from admissions to the hospital that were then seen by the peds rheum service (“heart failure, consult obtained for possible sarcoidosis”)