Introduction

The ReDD (Research-Disease Disparity) Observatory is a project that aims to evaluate the disparity between active areas of biomedical research and the global burden of disease using Linked Data and data-driven discovery.

Dataset Identification

Conversion of GHO to RDF using The RDF Data Cube Vocabulary

Dataset Conversion

Interlinking using SILK

Interlinking using SILK

Storage and Querying

Tripe Store (Virtuoso)

Formulating Indices

Disparity Indices

Trials vs. Deaths = Trials (weighted)/Total Number of Trials
Deaths/Total Number of Deaths

Trials vs. DALYs = Trials (weighted)/Total Number of Trials
DALYs/Total Number of DALYs

Publications vs. Deaths = Publications (weighted)/Total Number of Publications
Deaths / Total Number of Deaths

Publications vs. DALYs = Publications (weighted)/Total Number of Publications
DALYs/Total Number of DALYs

Evaluating the disparity

Countries Profile for three diseases

Disease Profile for India

Visualizing Results

User Interface

ReDD Observatory

Using the Web of Data for Evaluating the Research-Disease Disparity

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