

CSEP 590B, Assignment 1, Due Wednesday, January 14, 6:30 pm

**Part A:** Pick three countries to become an "expert" on. Assignments will often require specializing questions to countries, so we would like you to identify the countries in advance so that you can acquire background on them. The countries should be relevant to the topic of the course, so choose low income or low middle income countries. For reference you can use the World Bank list of low or low middle income countries. If you want to choose India, select a low income state in India. Include some diversity in your selection of countries, e.g., don't select all countries from the the same geographic areas.

For this part, all you need to do is to identify the countries and give a single sentence for each as to why you selected the country.

**Part B:** Write a summary of the main health challenges faced by your three countries using the Institute of Health Metrics and Evaluation (IHME) Global Burden of Visualization tools. (<http://www.healthdata.org/results/data-visualizations>)

We expect you to spend about an hour exploring the relevant data visualizations (the last four on the IHME list of visualizations, all which reference GBD). You may also look at how the health challenges have changed over recent years.

Write a paragraph for each of you three countries, including screen shots as necessary.

**Part C:** Design a national system for one of your three countries for monitoring the cold chain equipment (i.e., refrigerators and cold rooms) for the National Immunization Program.

We will be talking a lot more about immunization programs. The immunization program manages the distribution of vaccines through out the country. To maintain potency, vaccines must be refrigerated, so there is significant infrastructure in place to store vaccines. Generally, there is a hierarchy of vaccines storage locations(National Store, Regional Stores, District stores) in addition to health facility that also store vaccines. The larger locations will have walk in cold rooms, while smaller locations have vaccine refrigerators.

The system that you design should allow for reporting on the indicator: what percentage of time do facilities have working vaccine refrigerators.

There are lots of possible designs that you can come up with. The purpose of this assignment is to think about issues in designing a national reporting system.

Submit a design and an assessment of your design. The design should be one to two pages, and the assessment about a page. Your assessment should identify major issues and concerns you would have about implementing this, as well as a discussion if you think it would be realistic to deploy the system.

Submit all materials by catalyst by 6:30 pm, Wednesday, January 14. Submit via the dropbox which should be accessible through your catalyst accounts.