

Visualizing the Lives of Orphaned and Separated Children (OSC)

Jennie Wang, Blen Biru

Project Overview

We used data from the Positive Outcomes for Orphans Study (POFO) to create visualizations.

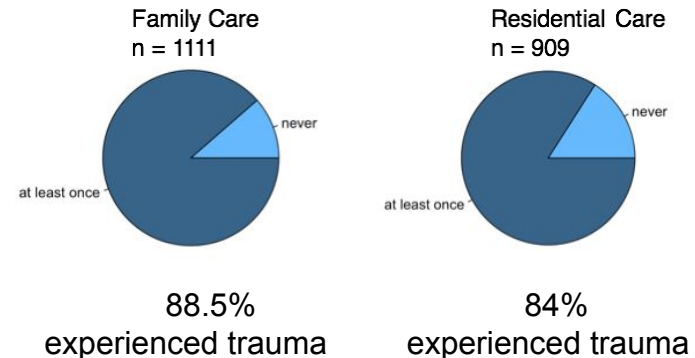
Our Data

- POFO is a longitudinal study of OSC conducted to understand the health and well-being of OSC in residential and family care in low- and middle-income countries.
- 6 sites: Cambodia, Tanzania, Ethiopia, Kenya, Nagaland (India), Hyderabad (India)
- Findings from POFO show that OSC in residential and family care experience comparable traumatic events.
- Traumatic events categories: disasters/accidents, abuse, war/riots/killings, family violence, forced to leave home, and witnessing family death.

Project Goals

- Create effective visualizations that highlight POFO's finding - OSC experience comparable trauma in residential as well as family care.
- Implement an interactive platform to inform child policy
- Explore variables within the collected data such as site, gender, and trauma types

Total Number of OSC: 2020

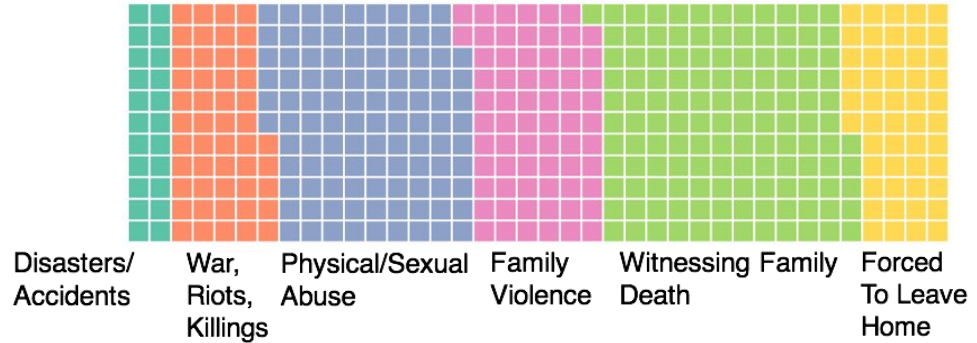


Sample Visualizations

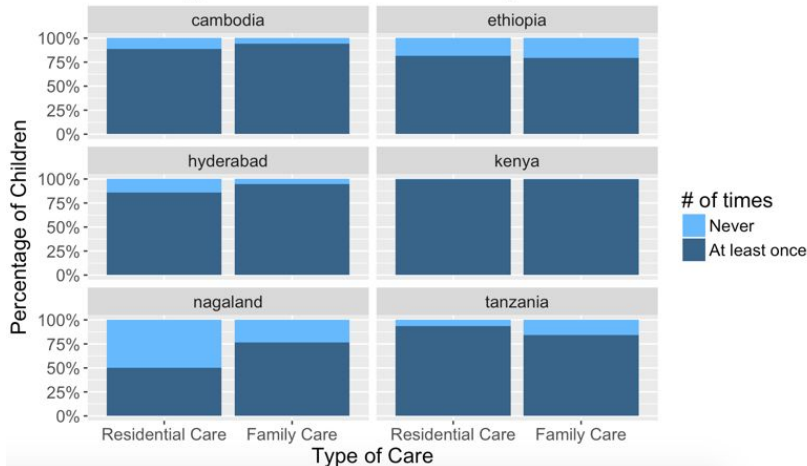
Creating Visualizations

- R to process and clean data
- ggplot2 package in R to create visualizations
- R Shiny to create interactive platform showcasing visualizations

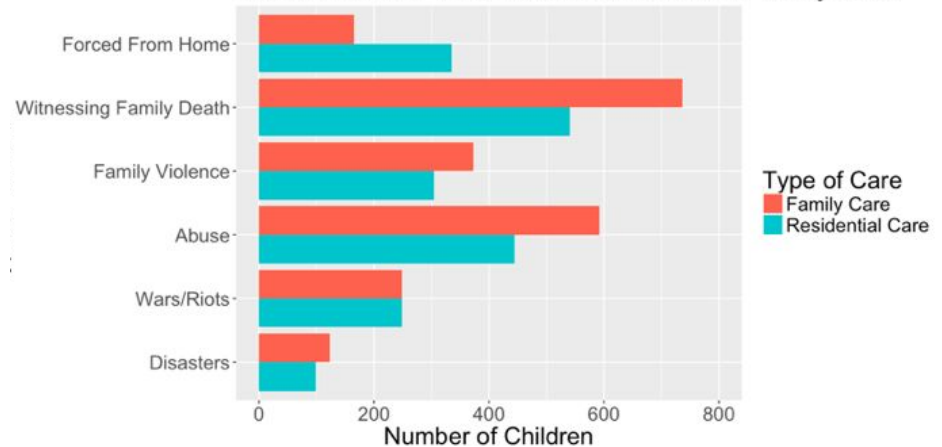
Trauma types breakdown



Percentage of Children That Have Experienced Trauma



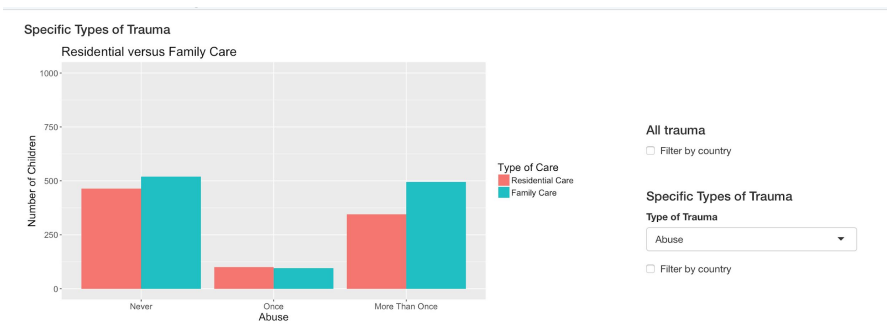
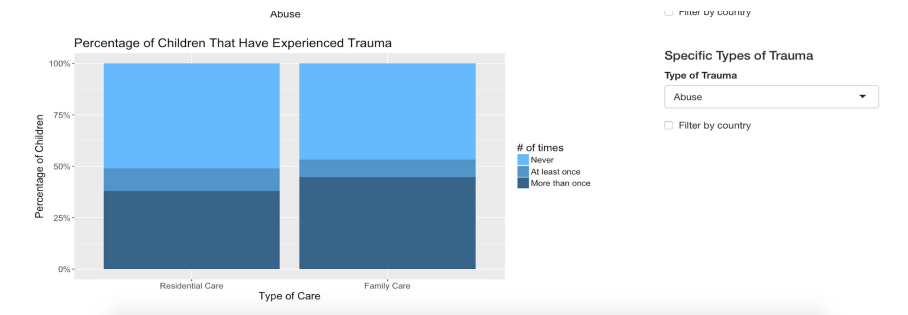
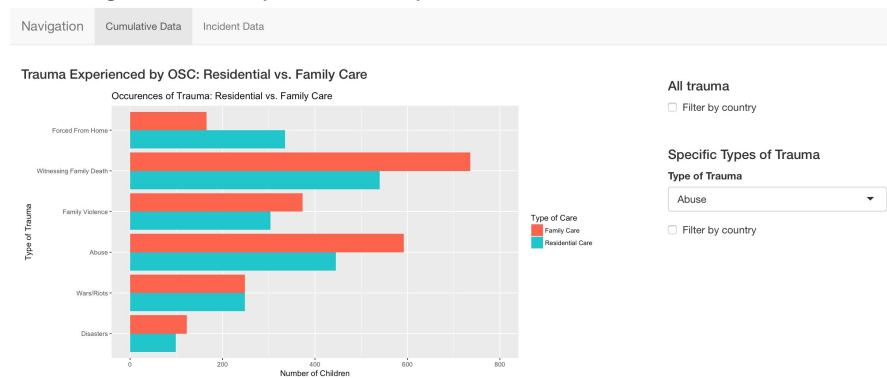
Occurrences of Trauma: Residential vs. Family Care



R Shiny App

Below are screenshots of the R Shiny app we created. Users can filter visualizations based on sites, as well as choose to focus on specific types of trauma.

Visualizing Trauma for Orphaned and Separated Children



Visualizing Trauma for Orphaned and Separated Children

