Visualizing the Lives of Orphaned and Separated Children (OSC)

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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

- 88.5% experienced trauma
- 84% experienced trauma
Creating Visualizations
- R to process and clean data
- ggplot2 package in R to create visualizations
- R Shiny to create interactive platform showcasing visualizations

Sample Visualizations

Trauma types breakdown

- Disasters/Accidents
- War, Riots, Killings
- Physical/Sexual Abuse
- Family Violence
- Witnessing Family Death
- Forced To Leave Home

Percentage of Children That Have Experienced Trauma

Occurences of Trauma: Residential vs. Family Care

Type of Care
- Family Care
- Residential Care

Number of Children

0 200 400 600 800
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.