For BDHS 2017-18, the population of Bangladesh was sampled using the sampling frame of the list Enumeration areas (EA) according to the Population and Housing census of Bangladesh in 2011

After excluding non-eligible cases a final dataset of 8321 (weighted) observation was obtained for this study where 250 children had symptoms of ARI and rest of 8071 children hadn’t

26 non-eligible cases eliminated due to visitors and non-surviving children

Then mother of 8347 children aged under-5 years were questioned about child's pregnancy, immunization, health including ARI symptoms 2 weeks prior to the survey from selected households

The survey was successfully carried out in 672 clusters with total of 20160 households were selected

Three clusters were eliminated due to that were completely eroded by floodwater

20250 households from 675 EAs were selected with probability proportional to the EA’s size