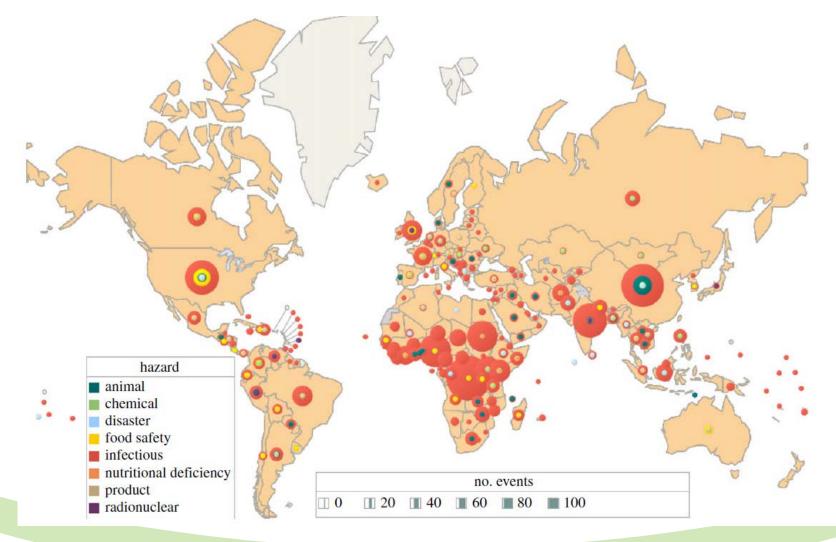
#### Shabir A. Madhi

## Health inequalities and communicable diseases

National Institute for Communicable Diseases & University of Witwatersrand, South Africa Respiratory and Meningeal Pathogens Research Unit, & DST/NRF: Vaccine Preventable Diseases

#### Eighty-four percent of 2797 International Health Hazards Between 2001 to 2013 Were Due to Infectious Diseases



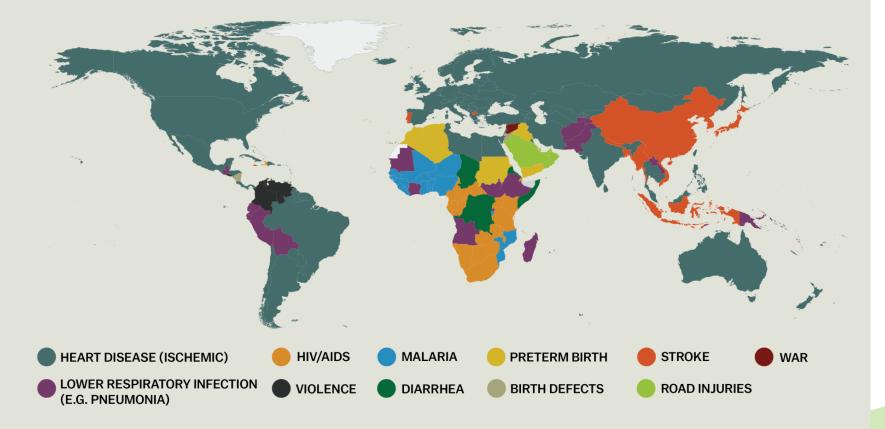
Rye C. Phil Trans R Soc; 2015; 369: 20130426

### Infectious Diseases Dominate as Leading Cause of Death in Africa

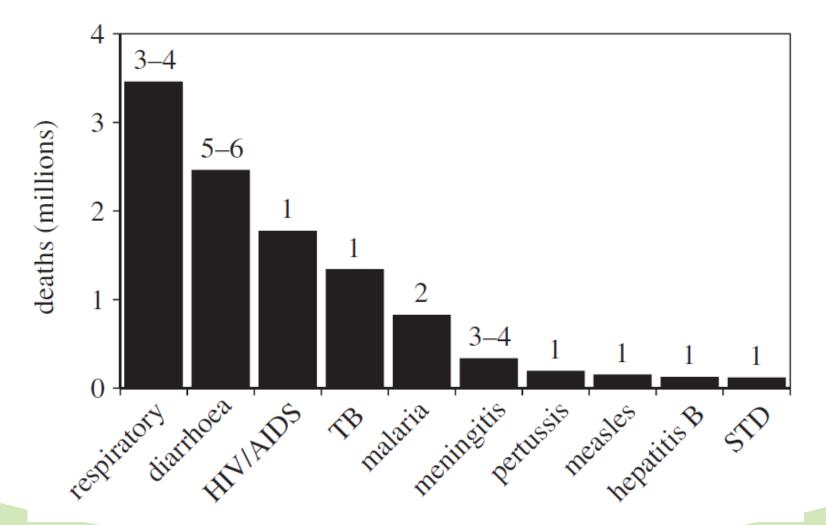


#### Leading causes of lost years of life in 2013

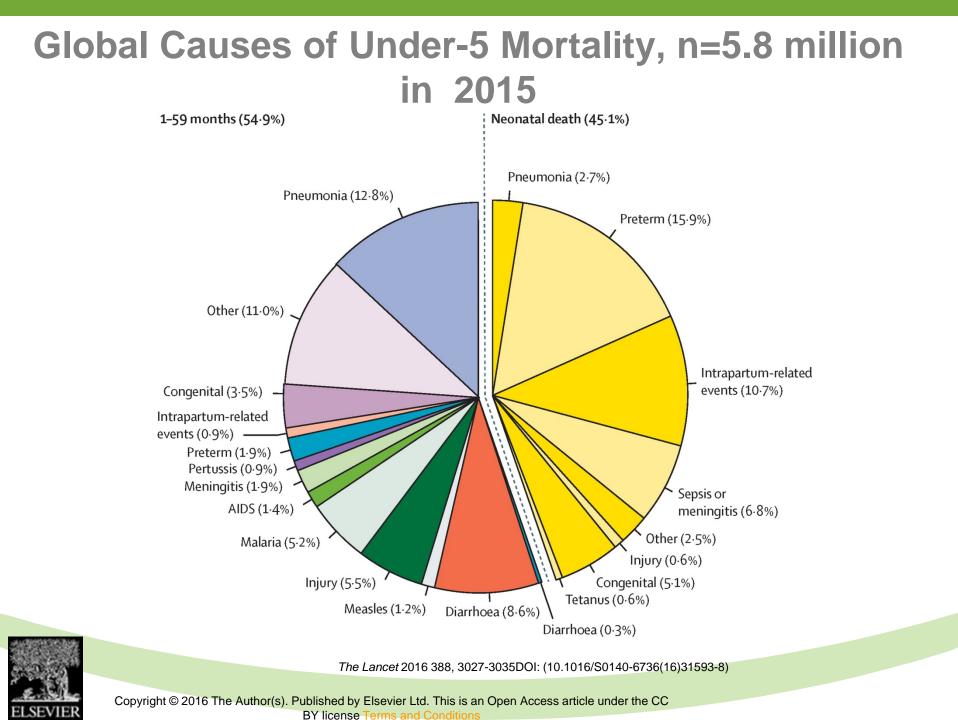
GLOBAL BURDEN OF DISEASE STUDY & THE LANCET, 2014



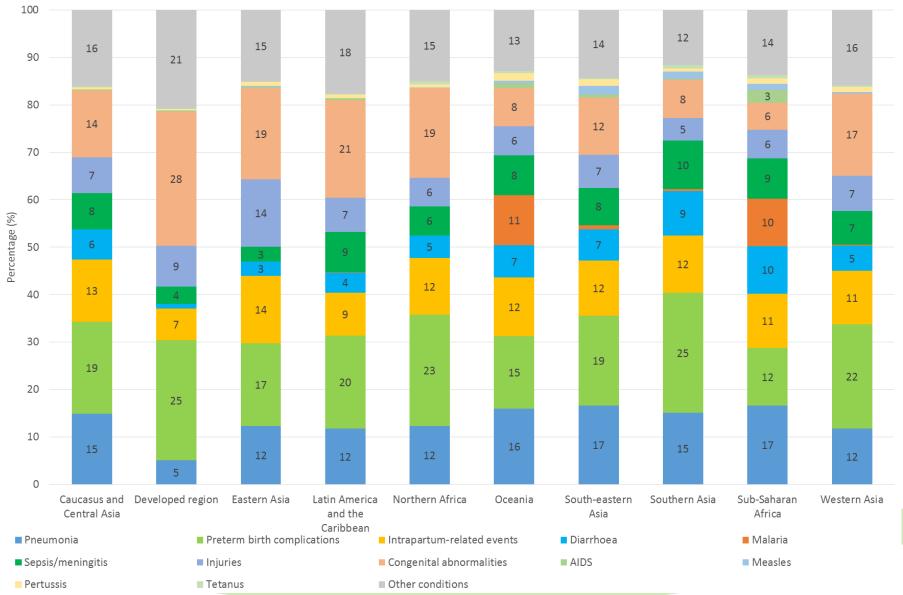
# Leading Infectious Disease Causes of Death, 2010



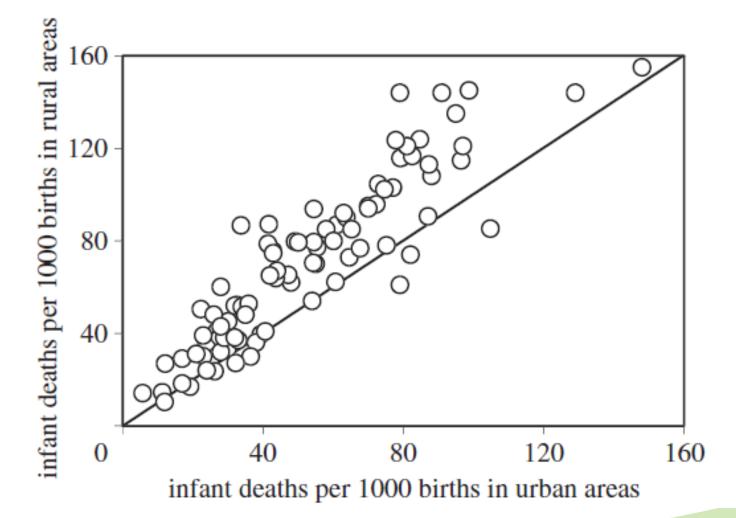
Rye C. Phil Trans R Soc; 2015; 369: 20130426



# Causes of Under-5 Mortality by MDG Region in 2015

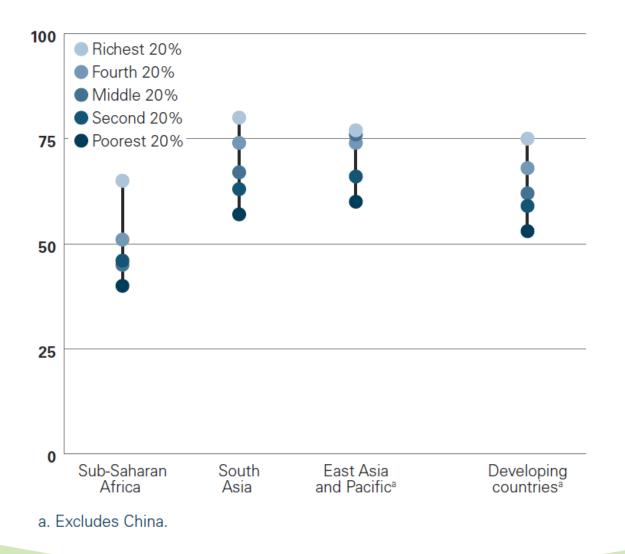


### Infant Mortality Rates Higher in Rural Than Urban Areas in Majority of 90 Countries



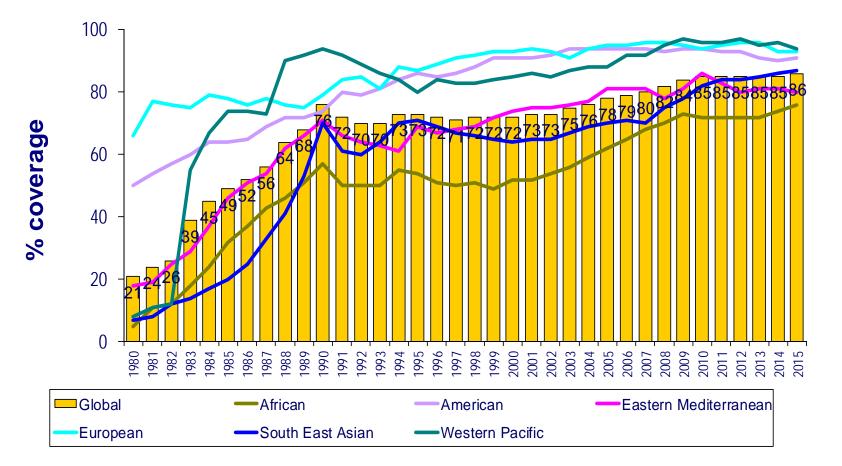
Rye C. Phil Trans R Soc; 2015; 369: 20130426

Proportion of Children Under-5 with Suspected Pneumonia taken to Appropriate Healthcare Provider, by Wealth quintile and Region



Source: UNICEF. Pneumonia and Diarrhoea. June 2012. Available: www.childinfo.org/publications

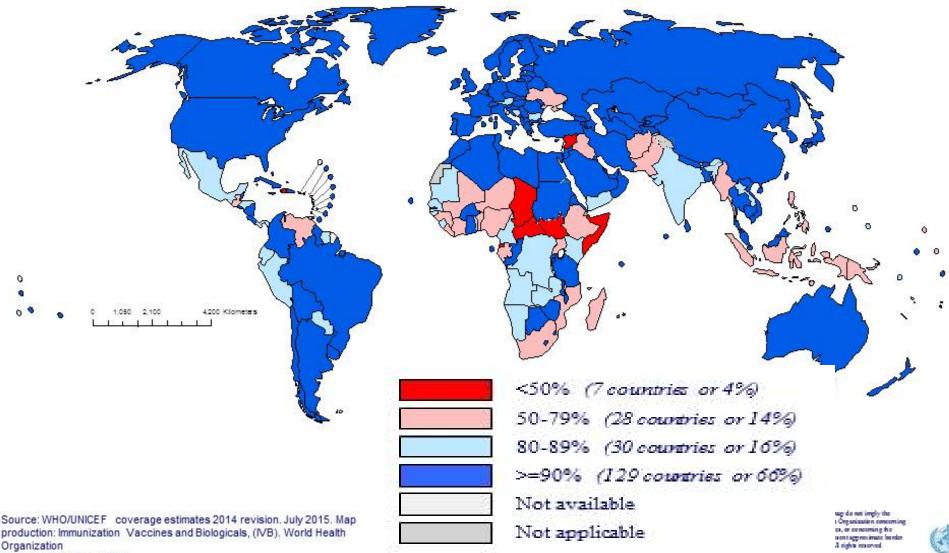
## Global Immunization 1980-2015, DTP3 Coverage Global Coverage at 86% in 2015



Source: WHO/UNICEF coverage estimates 2015 revision. July 2016 Immunization Vaccines and Biologicals, (IVB), World Health Organization. 194 WHO Member States. Date of slide: 16 July 2016.

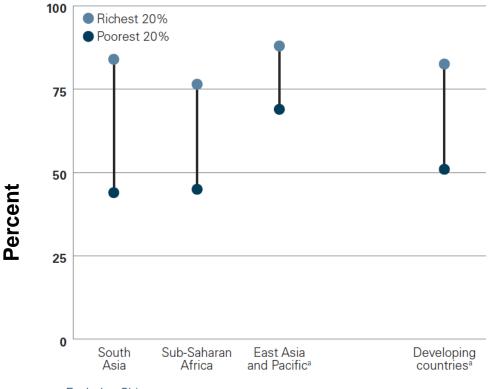
### Immunization Coverage with DTP 3 vaccines in Infants; 2014

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Date of slide: 16 July 2015

#### Percentage of Children Under One Year Age who Received Measles Vaccine, by Household Wealth Quintile and Region

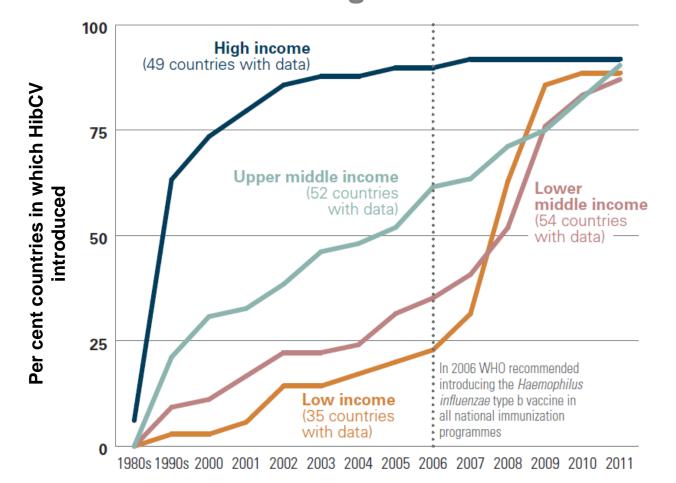


a. Excludes China.

• Need to focus immunization efforts on reaching out to the poorest quintile, who are also disadvantaged to access to curative health services

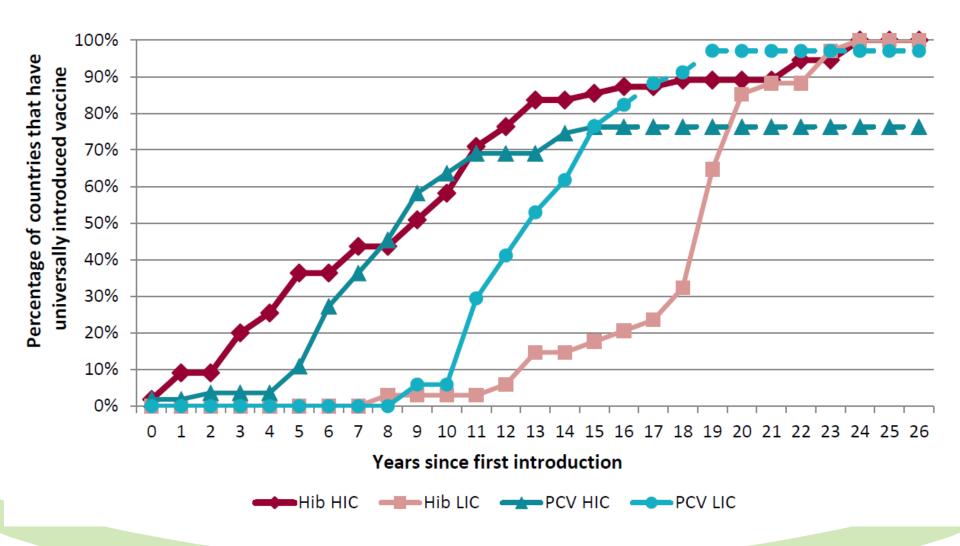
Source: UNICEF. Pneumonia and Diarrhoea.. Available: www.childinfo.org/publications

#### Proportion of Countries, by income-group, that Have Introduced Hib conjugate Vaccine into Immunization Programs



Source: UNICEF. Pneumonia and Diarrhoea. June 2012. Available: www.childinfo.org/publications

### PCV and HibCV Vaccine Introduction by Income Group



http://www.jhsph.edu/research/centers-and-institutes/ivac/resources/PCVImpactGapAnalysis\_MAR2016\_FINAL\_public.pdf



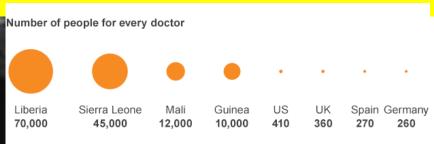


Workers at the Redemption Hospital abandoned the hospital for fear of more deaths from Ebola





#### Ebola outbreak 2013-2016 Guinea, Liberia, Sierra Leone 28 638 cases, 11 316 deaths



Source: World Bank

## Ebola — Underscoring the Global Disparities in Health Care Resources

Anthony S. Fauci, M.D.

NF.JM 2014

#### South Sudan: Fighting a measles outbreak in Yida refugee camp

13 February 2015

Hepatitis E Outbreak in Sudanese Refugee Camps Leaves 16 Dead

#### Sep 17, 2012 | Steven Purcell | Outbreak News



Children queue for water in the Jamam refugee camp by Robert Stansfield/Department for International Development 2012 via Flickr

Efforts to contain polio outbreak intensify around Kenyan refugee camp

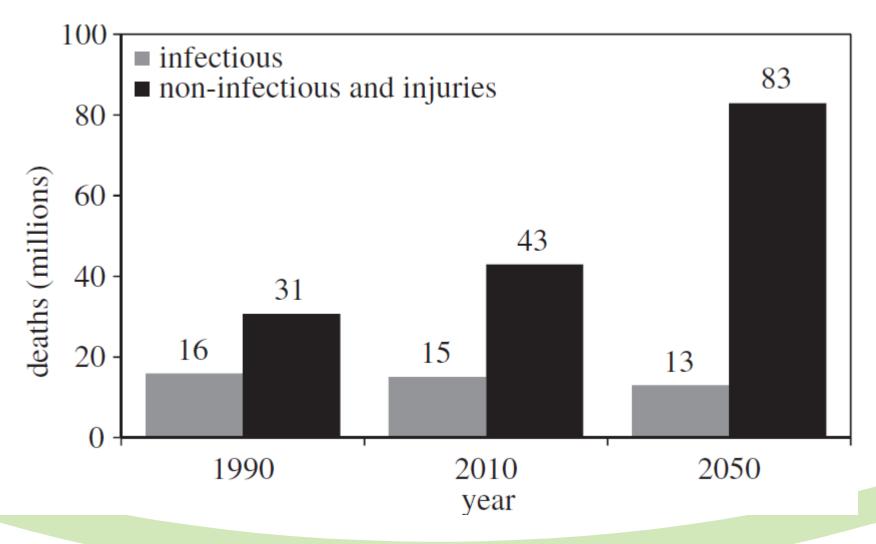


Learn more about Fatuma's story, and about the immunization campaigns underway to try to reach children in Kenya who have not been immunized against polio. Watch in RealPlayer

#### DIARRHEA OUTBREAK, POST-EARTHQUAKE - NEPAL: (CENTRAL REGION), 28 Apr 2015.ProMED



#### Trends in Causes of Death, 1990 to Projected 2050



Rye C. Phil Trans R Soc; 2015; 369: 20130426

- Infectious diseases remain dominant cause of death in Africa, including South Africa.
- Under-5 childhood mortality strongly associated with inequitable access to preventative and primary level curative health care.
- Wealth inequities predispose to infectious disease morbidity and mortality.
- Low resource settings remain vulnerable to major communicable disease outbreaks.