

## Multiple surveillance modalities

Network of four hospitals  
Rural and urban population based sites

### Hospitals

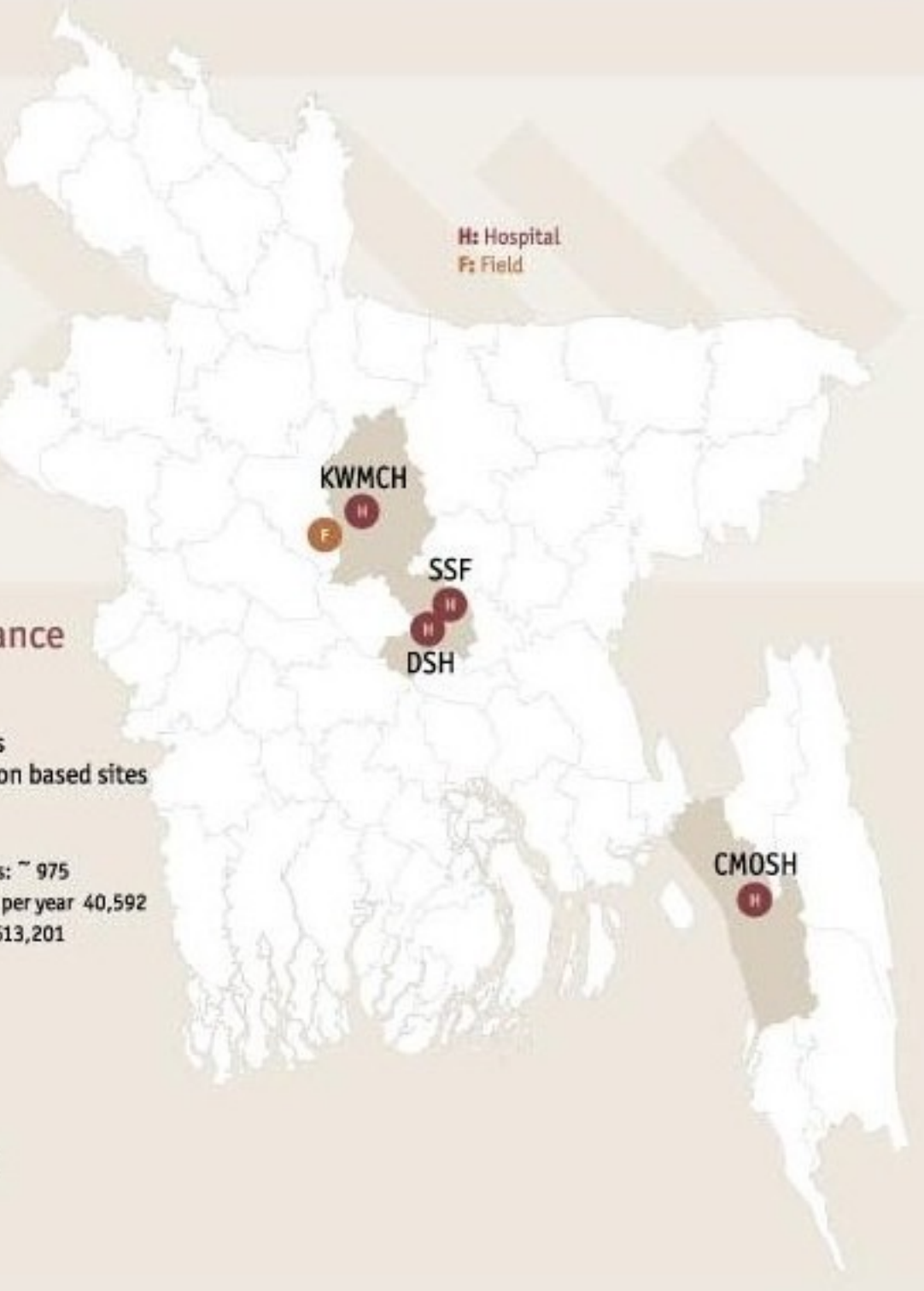
Total number of Pediatric beds: ~ 975  
Total admission of <5 children per year 40,592  
Total Number of OPD per year 513,201

### Field sites (Rural)

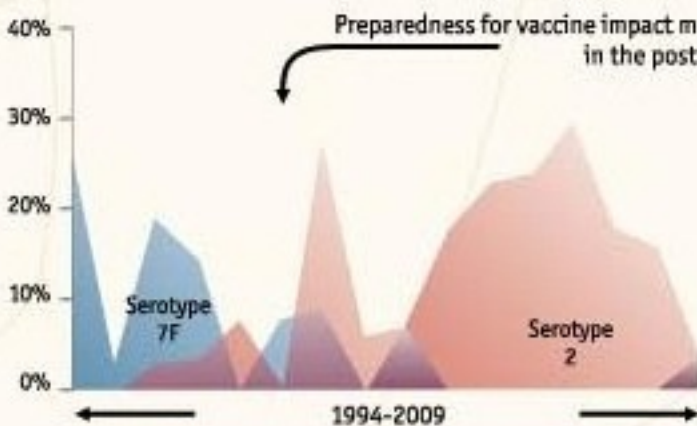
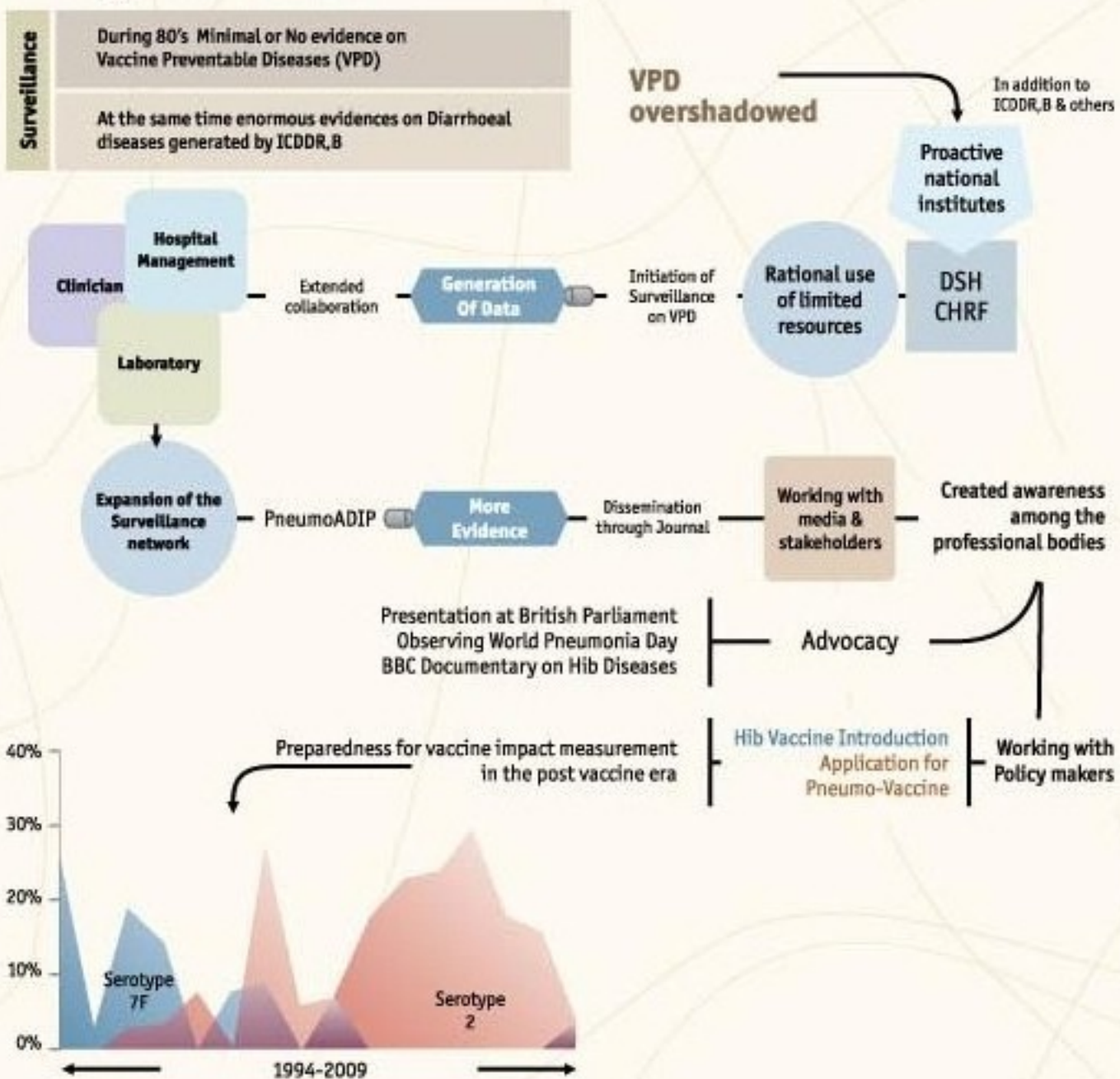
Total Population 129,715  
Total <5 children 12,003  
Birth cohort 2,985

### Field sites (Urban)

Total Population ~ 2,533,500  
Total <5 children 180,500  
Birth cohort 27,000



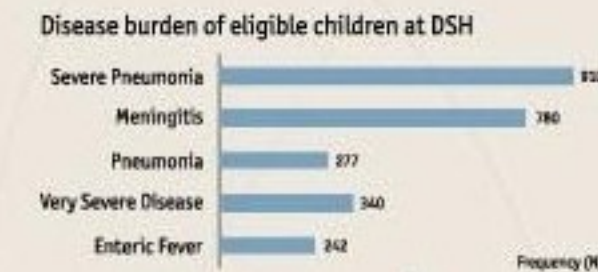
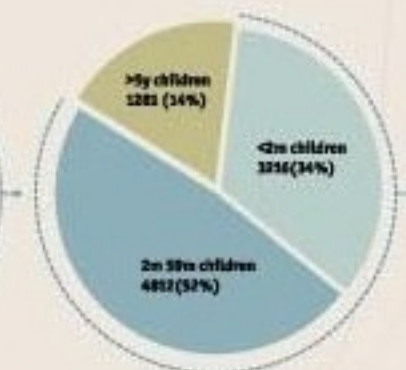
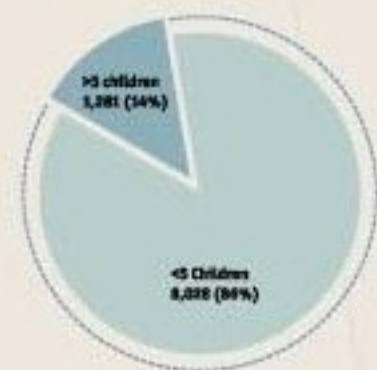
## History of surveillance



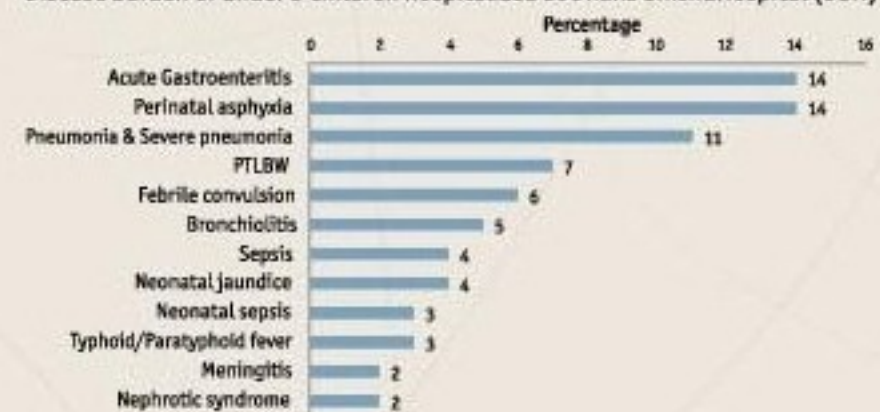
## DHAKA SHISHU HOSPITAL Sentinel site

Admitted patient at DSH from Apr-Sept'11

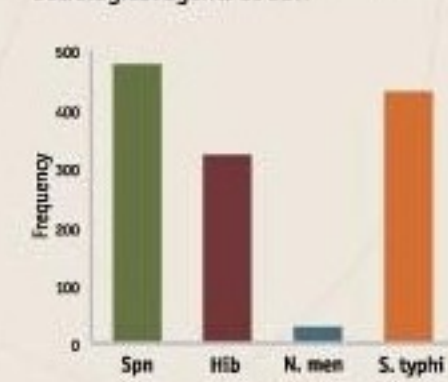
Total Admission  
**9,309**



Disease burden of under 5 children hospitalized at Dhaka Shishu Hospital (DSH)

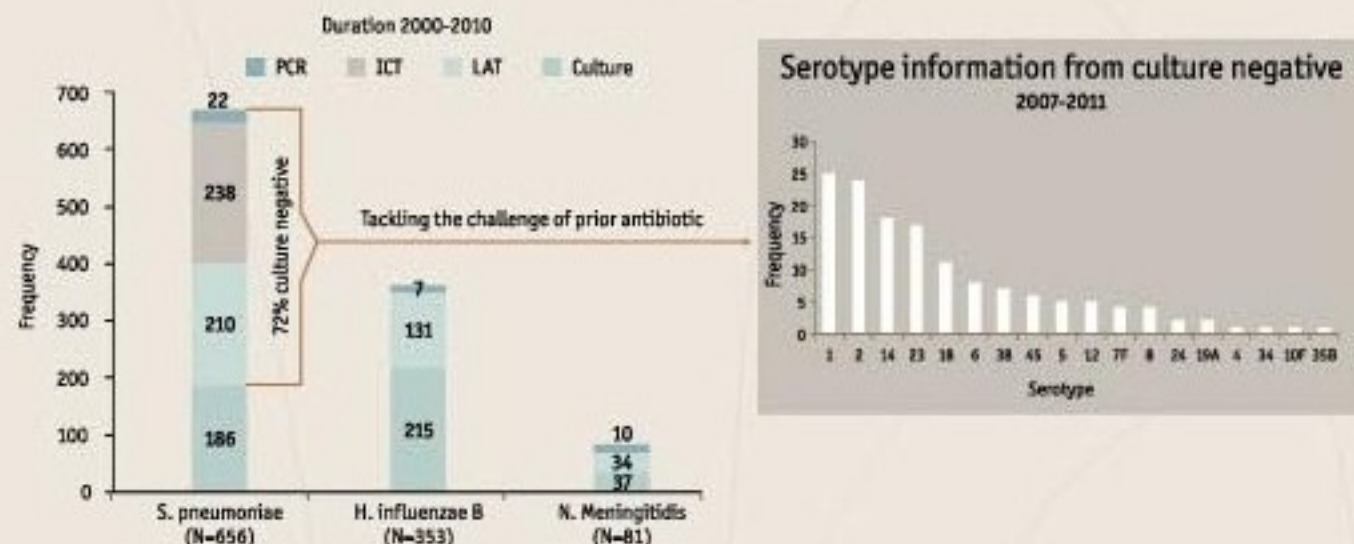


Prevalence of Vaccine preventable aetiological agents at DSH

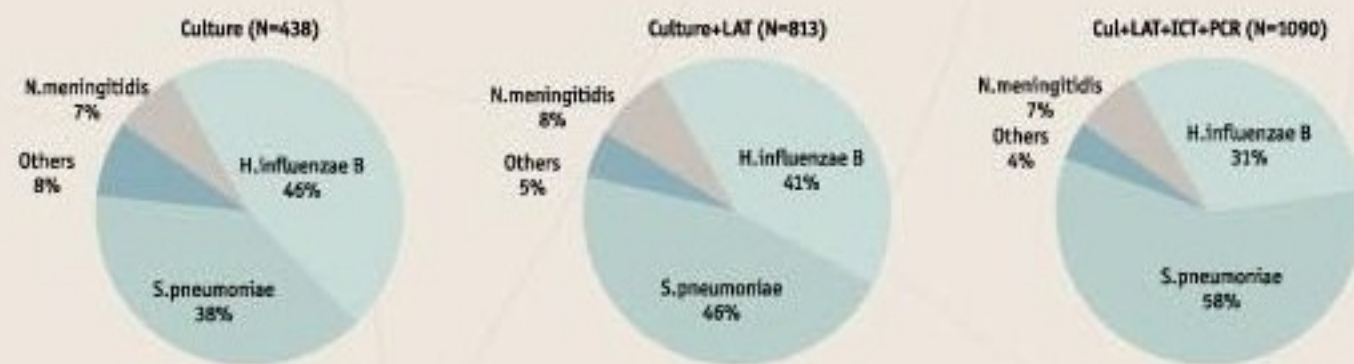




## Appropriate use of diagnostics: Quality surveillance with minimal heterogeneity



## Change of aetiological scenarios with the use of diagnostics



## Impact of pneumococcal meningitis

Impaired    Disabled    Handicapped

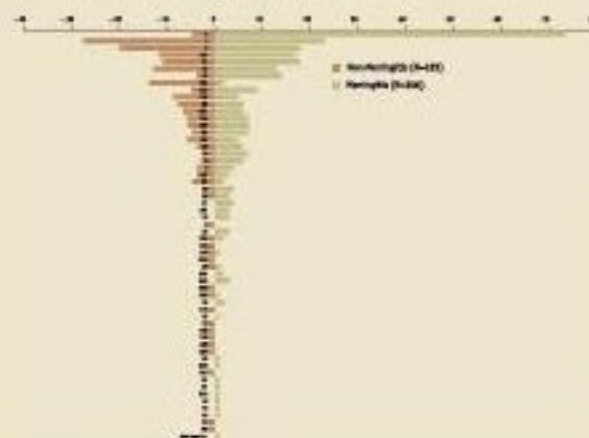
Bigger Impact on Family > Society > National Resources

### Human Face of Pneumococcal Meningitis



Contrasted quadriplegic child with vision and hearing impairment due to Pneumococcal meningitis with his active twin sister.

Diverse pneumococcal serotype:  
Possible challenge for vaccine introduction



## Awareness and Advocacy



World Pneumonia Day



BBC documentary on Hib diseases



Working with the policy makers

Contact: Child Health Research Foundation, Department of Microbiology, Dhaka Shishu (Children) Hospital, Sher-e-Bangla Nagar, Dhaka 1207

## Productive collaboration of national institutes

Largest pediatric hospital in Bangladesh

State of the art laboratory

Combination of services to the patient and research

Generating evidence on Vaccine Preventable Diseases (VPD) using limited resources.

