***Streptococcus pneumoniae* SEROTYPE EPIDEMIOLOGY, ANTIBIOTIC SUSCEPTIBILITY PROFILES AND ASSOCIATED RISK FACTORS AMONG CHILDREN ATTENDING GERTRUDES CHILDREN'S HOSPITAL**

VARIABLE	SPECIFICATIONS (*mm: millimeters*)	INTERPRETATION (*where necessary*)
Erythromycin	• NGO • 15-20mm • **21mm** • 22-25mm • 26-30mm • ≥31mm	• NGO: No growth observed • All *Streptococcus pneumoniae* organisms with a clearance zone (CZ) of below **21mm** were considered non-susceptible to erythromycin • Organisms with a CZ of above **21mm** were considered susceptible to erythromycin
Vancomycin	• NGO • <17mm • **17mm** • 18-20mm • 21-25mm • ≥25mm	• NGO: No growth observed • All *Streptococcus pneumoniae* organisms with a clearance zone (CZ) of below **17mm** were considered non-susceptible to vancomycin • Organisms with a CZ of above **17mm** were considered susceptible vancomycin
Oxacillin	• NGO • 15-18mm • **19mm** • 20-24mm • 25-29mm • ≥30mm	• NGO: No growth observed • All *Streptococcus pneumoniae* organisms with a clearance zone (CZ) of below **19mm** were considered non-susceptible to oxacillin • Organisms with a CZ of above **19mm** were considered susceptible oxacillin
Ceftriaxone	• NGO • 20-24mm • 25-29mm • **30mm**	• NGO: No growth observed • All *Streptococcus pneumoniae* organisms

	• 31-35mm • 36-40mm	with a clearance zone (CZ) of below **30mm** were considered non-susceptible to ceftriaxone • Organisms with a CZ of above **30mm** were considered susceptible ceftriaxone
Clindamycin	• NGO • 15-18mm • **19mm** • 20-24mm • 25-29mm • ≥30mm	• NGO: No growth observed • All *Streptococcus pneumoniae* organisms with a clearance zone (CZ) of below **19mm** were considered non-susceptible to clindamycin • Organisms with a CZ of above **19mm** were considered susceptible to clindamycin
Mothers Age	• 18 to 24 years to ≥46 years	• Mothers within the reproductive phase • After menopause
Mother's level of education	• ≤Primary School to; • Post graduate level	• Minimum possible level of educations vs.; • Highest possible level of education
Family income/month	• 70-140USD; • ≥460USD	• Minimum recommended wage as per GoK; • Amount of wage/month
Household size	• Single room to; • Over 4 bedroomed house	• Size of the house where the subject resided
Waste Disposal Method	• Public Sewerage • Private • Other	• Method of waste disposal as per subject's household
Type of cooking fuel	• Gas • Electricity • Stove	• The type of cooking fuel used at the subject's home

	• Firewood • Charcoal • Other	
Mother's occupation	• White collar job • Self-employed • Housewife	• Whether subject's mother is employed or otherwise
Household source of lighting	• Candle, traditional lamp, candle, solar, electricity	• Source of lighting for the subject's household
Child's age	• 6-12months to 49-60months	• Age of the subject in months
Breastfeeding frequency	• *1,*2*3*4≥*4 • None	• Number of times the subject was breastfed in a span of 24 hours
Breastfeeding type	• Moderate • Exclusive • None	• Other than breastfeeding, whether the subject was fed on any other food during the first 6 months after birth
Birth weight	• ≤1 Kgs to ≥5.1Kgs	• Body weight of the subject at birth in kilograms
Optochin Zones	• ≤13mm • **14mm** • 15-17mm • 18-20mm • ≥21mm	• Streptococcus pneumoniae isolates with CZ of below 14mm were considered non-susceptible to optochin

- Strength of the antibiotic against *Streptococcus pneumoniae* was determined on the basis of the size of the CZ. The larger the CZ the more effective was the antibiotic against the bacteria.