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Prevalence of type b and non-type b *Haemophilus influenzae* in post vaccination eraRezowana Mannan¹, Md Hasanuzzaman² and Obaidur Rahman¹¹North South University, Bangladesh²Dhaka Shishu Hospital, Bangladesh

Haemophilus influenzae (Hi/HI) is a Gram-negative opportunistic pathogenic bacterium that commonly resides as commensals within the human pharynx and may cause respiratory or invasive infections in non-immune infants and young children. Introduction of routine use of the Hib conjugate vaccine in Bangladesh since 2009, the incidence of invasive Hib disease decline to 1.85% from 35% at present. However, the aim of the project is to identify the reason behind the HI positive vaccinated cases. With the virtual elimination of *H. influenzae* type b (Hib), other serotypes and specially the non-typeable strains have acquired virulence traits which may emerge as significant pathogens of children. All the vaccinated and culture positive *H. influenza* samples like blood, cerebrospinal fluid (CSF), ear swab (ES) and nasopharyngeal swab (NS) are scrutinized from the three enrolling projects of Child Health Research Foundation, Dhaka Shishu Hospital: Invasive Bacterial Diseases (IBD), Acute Otitis Media (AOM) and Vaccination and Pediatric Microbiome (VPM). The molecular detection of 452 vaccinated HI positive strains, identified by conventional method, has shown only 9 (1.99%) typeable strains whereas most of them are non-typeable (93.14%) and the resting (22 samples) are other species of *Haemophilus*. The result suggests that present vaccine does not have any effect on non-typeable strains of *H. influenzae* and moreover molecular approach to identify the strains is more reliable for determining the specific strains and other species also.

Biography

Rezowana Mannan is currently working as a Laboratory Officer at the Department of Biochemistry and Microbiology at North South University, Bangladesh since 1 year. She has volunteered to help the department in promotional activities of the MS program. She has expertise in pathological investigations with her BSc in Health Technology (Lab) degree and has 2 years of experience at diagnostic lab.

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