

## Collaborative Research Report

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Research Topic and Outline	<p>Association of sleep duration and sleep quality with attention deficit hyperactivity disorder among Bangladeshi children</p> <p>This was an initiative to establish a longitudinal cohort of children aged 5-7 years in rural Bangladesh. Along with demographic information, we gathered detailed information on sleep, physical activity, screen time, and diet of children. We used bengali version of Strengths and Difficulty Questionnaire and ADHD Rating Scale IV to gather information on behavioral problems and ADHD symptoms respectively.</p> <p>Our initial data analysis found that, late sleep time (<math>\geq 11</math> pm) is associated with higher inattention score. As for the next step, we are planning to collect data from another 500 children and then followup them one year after the baseline survey.</p>
Collaborative Research Activity	In collaboration with Global Public Health Research Foundation (GPHRF), Bangladesh, we already completed baseline survey among 500 children from four unions of Alamdanga sub-district in Bangladesh. Team members from GPHRF obtained permission from local authority, conducted interviews, and checked the collected data.
Publication, Paper	Rahman MS, Takahashi N, Iwabuchi T, Nishimura T, Harada T, Okumura A, Takei N, Nomura Y, Tsuchiya KJ*. Elevated risk of attention deficit hyperactivity disorder (ADHD) in Japanese children with higher genetic susceptibility to ADHD with a birth weight under 2000 g. BMC Medicine. 2021;19:229.