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Mumps Vaccine in Japan- low coverage of mumps-containing vaccination and studies toward its inclusion into national immunization program in Japan

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The coverage rate of mumps vaccine is 30-40% for one-dose in Japan. The reasons of low coverage is that the government does not include mumps vaccine into National Immunization Program (NIP). Major governmental concerns for inclusion are social will, cost-effectiveness, aseptic meningitis as one of adverse events. Aseptic meningitis after vaccination made the government stop routine mumps vaccination since 1993; however, it has been shown that incidence of aseptic meningitis was as 1/5,000-7,000 (Hoshino and Torii strains) at 1 year old which was lower than expected. In this presentation, the studies about cost-effectiveness analyses and social will will be introduced.

First, static model simulation was performed and resulted that cost-benefit ratios were 3.69 and 6.84 in independent inoculation and simultaneous inoculation, respectively, from a social perspective. In addition, dynamic transmission model was used to consider herd immunity with the result that two-dose vaccination program was always dominating over one-dose or current program in all scenarios.

In terms of social will, a questionnaire survey was performed to Japanese parents if they wish that mumps vaccines are included into NIP after giving current information. The result was that 95.0% of parents want routine mumps vaccination

In countries with high coverages of two-dose vaccines, mumps outbreaks still exist. Once Japanese government approve routine vaccination, we can compare the efficacies between Jeryl-Lynn strain and Japanese strain and further investigate the best vaccine strain and schedule.

Biography

Taito Kitano has completed his MD at the age of 24 years from Nara Medical University and is in part-time MPH studies from Johns Hopkins Bloomberg School of Public Health. He is a pediatrician at Nara Prefecture General Medical Center. He has published a paper about cost-effectiveness analysis of mumps vaccination in Japan.

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