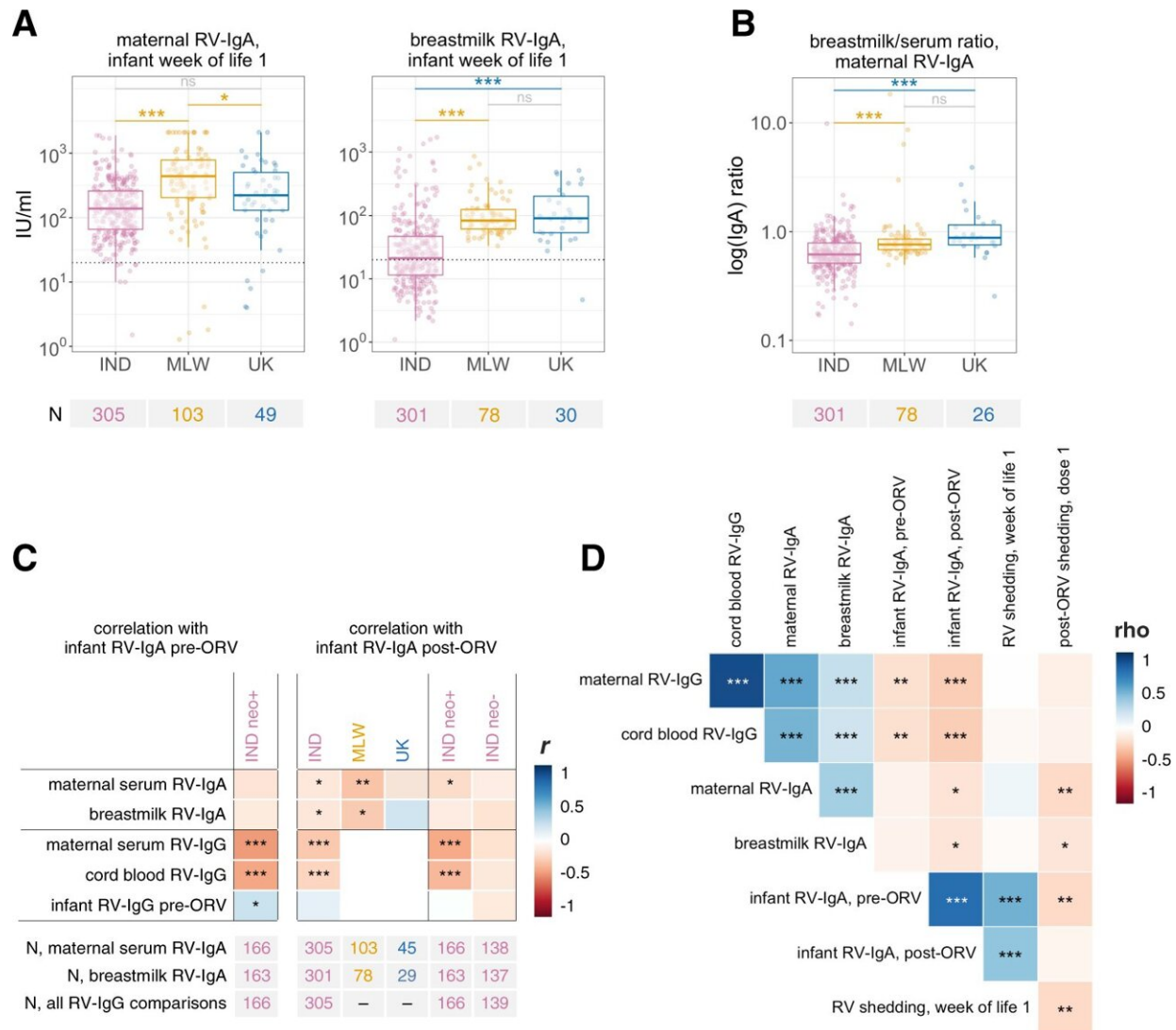


Earlier vaccinations could help tackle rotavirus in poorer countries

January 20 2022



Association between maternal antibodies and oral rotavirus vaccine response. A Geographic differences in maternal antibody concentrations. Groups were

compared by ANOVA with post-hoc Tukey tests. The dotted lines at 20 IU/ml indicate the standard cut-off for RV-IgA seropositivity. B Geographic differences in maternal breastmilk/serum RV-IgA ratios. Groups were compared by Dunn's test. Ratios were calculated using log-transformed antibody concentrations. See Fig. 1 legend for box plot parameters. C Association between maternal antibodies and infant RV-IgA formation. Log-transformed concentrations were compared using Pearson's correlation coefficient (r) with two-sided hypothesis testing. Infant samples for RV-IgA measurement were collected at the time of dose 1 (week of life 6 in India/Malawi; week of life 8 in the UK) and 4 weeks after dose 2 (week of life 14 in India/Malawi; week of life 16 in the UK). D Correlation between rotavirus-specific antibody concentrations and rotavirus shedding in Indian infants with complete data ($n = 298$). For shedding variables, $1/Ct$ was used such that higher values correspond to higher rotavirus quantities. Shedding after week of life 1 was determined based on the group A rotavirus VP6 gene assay (Ct range 23.5–35.0) while shedding after dose 1 was based on the Rotarix-specific NSP2 gene assay (Ct range 20.7–40.0). Variables were compared using Spearman's rank correlation coefficient (ρ) with two-sided hypothesis testing. neo+, infected with rotavirus neonatally (defined by detection of rotavirus shedding in week of life 1 or baseline seropositivity); neo–, uninfected with rotavirus neonatally; ns, not significant; ORV, oral rotavirus vaccine; RV, rotavirus; * p

Citation: Earlier vaccinations could help tackle rotavirus in poorer countries (2022, January 20) retrieved 25 April 2024 from

<https://medicalxpress.com/news/2022-01-earlier-vaccinations-tackle-rotavirus-poorer.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--