



TITLE: A Desk Review of 377 child nutrition smartphone applications available on Google playstore

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ABSTRACT (upto 300 words)

There are many smartphone-based apps available that provide information on parenting, child nutrition, and child health. Here, we have made an effort to examine some of the Google Play Store's child nutrition apps, with a particular emphasis on those geared for kids under the age of five. "Child nutrition," "evaluation of child nutrition status," and "parenting" were the search terms utilized. A total of 377 apps were found in the Play Store, and 33 of those were eligible for review. Thirty-three apps total; 19 apps failed to cite the source of their material, and three apps had not been updated in the previous three months. Four of the apps did not require the child's name, birthdate, or gender to log in. There were 23 apps that were exclusively available in English. Food, growth, development, and immunization trackers, data export, reminders, meal planner, feeding advice, list of foods, recipe details, information on nutrients, and question-and-answer sessions with experts were among the output features of the apps that were chosen. Only

eight applications offered access to expert assistance, and only three offered suggestions for the child's nutritional needs. Despite the fact that the feature type varies, three apps received comparable feature scores. Findings from this analysis imply that the apps don't adhere to any standard procedures for giving care information on infant nutrition. The lack of uniform guidelines or policy documents for child nutrition app development is indicated by the fact that about 50% of apps failed to specify the source that was considered during their creation. It is advised to conduct app-based intervention studies to evaluate the efficacy of child nutrition/health smartphone apps.

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BIOGRAPHY (upto 200 words)

Rachana Srivastava is presently working as Program Officer at the Department of Community Medicine and School of Public Health, PGIMER, Chandigarh. She is PhD in Food and Nutrition from Punjab Agricultural University Ludhiana (2010) and was the recipient of an ICAR-Junior research fellowship (AIR-4) during her master's. She was a WoS-B fellow from the Department of Science and Technology, New Delhi, at the Department of Community Medicine and School of Public Health, PGIMER, Chandigarh (2019-2021) for the project "Development and evaluation of smartphone nutrition application for mothers of under five-year age children". She received the best poster award at IAPSMCON21 for her poster "Assessment of egg quality, food safety and hygiene practices among commercial and noncommercial poultry farms of Barwala district of Panchkula, Haryana". Her primary research areas are maternal and child nutrition, geriatric nutrition, food security, anaemia, and food safety. Her E-Goshti and E-rasoissions are new ways of creating nutrition-related awareness among mothers. She has worked on several nutrition-related projects for the Indian council of medical research (ICMR) in New Delhi and the National Dairy Research Institute (NDRI) Karnal. She is a resource faculty for training CDPOs and ACDPOs at NIPCCD and house mothers and fathers at Child Protection Unit Chandigarh.

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