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Developmental assessment of early preterm - born children in King Khaled Military City, Saudi Arabia, using the ages and stages questionnaire: A retrospective cohort study

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The study was conducted to assess the developmental outcome of the Early Preterm (EPT) children compared to Full Term (FT) children in King Khaled Military city (KKMC), Saudi Arabia and to explore risk factors for developmental delay of the EPT children. Files of 150 EPT children and 198 FT children age 1-66 months were studied. The scores of the 5 developmental domains of Ages and Stages Questionnaire, third edition (ASQ-3) were compared in both groups and 20 potential risk factors for development in the EPT group were analyzed. Results were statistically analyzed. A delayed ASQ-3 Communication, Gross Motor, Fine Motor, Problem Solving and Personal-Social domains score was detected in (11.3%, 8.0%, 9.3%, 7.3%, & 6%) of the EPT children compared to (3.6%, 2.6%, 3.1%, 1.5% & 1%) in the FT children respectively ($P < 0.05$). Significant association was found between birth weight and all except Gross Motor domain, Extra-ocular manifestations (EOM) and all except the Fine Motor domain, Attention deficit hyperactive disease (ADHD) and the 3 cognitive domains and Central nervous system (CNS) lesions, Communication and Personal-Social domains and corrected age during ASQ-3 assessment and the Length-of-Stay and the Communication domain. Corrected age and CNS lesions were independently associated to Communication delay and EOM and ADHD were independently associated to Personal-Social delay. It was concluded that EPT children have more prevalent developmental delay compared to FT children and are candidates for early detection programs. Corrected age, CNS lesions, EOM and ADHD were independently associated factors to developmental delay.

Biography

Mohamed Khaled Mohamed El Hatw was graduated 30 years ago from the faculty of medicine, Cairo University. He got a Master degree in pediatrics in 1987 and MD in pediatrics in 1995. Recently he got a Diploma of Public health from Liverpool University. He holds the position of a Pediatric Nephrology consultant in Cairo University Children hospital and currently works as pediatric consultant in a military hospital in Saudi Arabia. He has published 12 papers in reputed journals and holds 12 patents in the field of medical engineering in the Egyptian and US patent offices.

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