Neurodevelopmental consequences of very preterm births

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Béatrice Larroque and colleagues (March 8, p 813) report different negative neurodevelopmental consequences of very preterm births in a 5-year follow-up cohort and the resulting use of rehabilitation care. This study reflects a dynamic of profound changes in obstetric and paediatric practices in France in the late 1990s, which included the creation of level III neonatal units and a neonatal care referral network between hospitals.

Despite the substantial advances in research on fetal growth and the neonatal adaptation to extrauterine life that drove this dynamic, the current state of scientific knowledge is insufficient for ruling out the risk of brain damage closely associated with the immaturity of the brain during its ex-utero development in very preterm children. Therefore, results from prospective investigations such as Larroque and colleagues' and others should be integrated in a teleological perspective beyond merely neonatal care, for these investigations provide essential arguments for preventing pre-maturity, which is feasible only with a two-pronged, biomedical and psychosocial approach.

Indeed, women and practitioners should be reminded that, despite medical advances, the morbid outcomes of pregnancy, especially pre-maturity, are partly linked to psycho social determinants such as pregnancy denial and precarious social situations. Advances in neonatal intensive care must not mask the need for, or be made to the detriment of, the means adopted to develop primary psychosocial prevention measures, especially since Larroque and colleagues' study found that loss to follow-up was more common in socially disadvantaged children.

References: