Maternal obesity and breastfeeding: retrospective longitudinal observational study

Lia Feliciello 1,*, Eleonora Spelta 1, Fabio Facchinetti 1, Daniela Menichini 2, Francesca Monari 1, Isabella Neri 1

1 Obstetrics and Gynecology Unit, Mother-Infant and Adult Department of Medical and Surgical Sciences, University of Modena and Reggio Emilia, Modena, Italy.
2 Department of Biomedical, Metabolic and Neural Sciences, International Doctorate School in Clinical and Experimental Medicine, Obstetrics and Gynecology Unit, Mother-Infant Department, Policlinic Hospital, University of Modena and Reggio Emilia, Modena, Italy.

Objective. Evaluation of the relationship between maternal obesity and the onset and duration of breastfeeding.

Materials and Methods. This is a retrospective longitudinal observational study, including puerperas, who delivered a single fetus at term at the Obstetric Unit of Modena from 1 April 2020 to 30 April 2021, who completed the questionnaire “Madri” offered by MAMI (Italian maternal breastfeeding movement).

Results. 366/452 (81%) patients accepted to answer the questionnaire by telephone. Among these, 42.6% (n = 156) were obese at the time of delivery and 26% of them said they hadn’t had the milky whip. Moreover, compared to normal weight women, the less obese had a physiological milky whip (between 48-72 hours after childbirth), (155, 74% vs 72, 46% p = 0.000) and were exclusively breastfeeding during hospitalization (155, 74% vs 81, 52% p = 0.001). The exclusive lactation rates at one week, one month and three months from childbirth are in Figure 1. After three months, the main reasons for withdrawal from breastfeeding were: the mothers’ perception of having little milk for 30% of normal weight and 38% of obese women, maternal choice, 25% and 29% respectively, and breast rejection by the child, 22% and 18% respectively.

Conclusions. Maternal obesity seems to be associated with a more common failure to start breastfeeding, a shorter duration, less adequate milk production and a delayed onset of lactogenesis, compared to normal weight women. This suggests that healthcare professionals should consider obese women at risk of unsuccessful breastfeeding, and therefore follow-up strategies should be implemented in this population.

Table 1. The rates of breastfeeding at one week, one month and three months from childbirth.

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<tr>
<td>Obese</td>
<td>50%</td>
<td>44%</td>
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<td>Normal</td>
<td>70%</td>
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