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Interventions to support women with overweight or obesity or gestational diabetes mellitus to initiate and continue breastfeeding: systematic review and meta-analysis

Z. L. Reichental¹, V. M. O'Brien¹ and S. L. O'Reilly²

¹School of Public Health, Physiotherapy & Sports Science University College Dublin, Belfield, Dublin, Ireland and 2 School of Agriculture and Food Science University College Dublin, Belfield, Dublin, Ireland

Exclusive breastfeeding is recommended for all infants for the first 6 months of life and benefits both mother and child⁽¹⁾. Women with overweight or obesity and women with gestational diabetes are at-risk groups for poor breastfeeding outcomes^(2,3). We systematically reviewed evidence for the effect of breastfeeding interventions in these groups on any breastfeeding and exclusive breastfeeding as

We searched Medline, Embase, CINAHL, PsycInfo and Cochrane Library and clinical trial registries for intervention studies to the 1st May 2020. Meta-analysis was performed for timepoints (0-1 month, 1-2 months, 3-4 months and 6+months) using both random and fixed-effects models, where appropriate. Subgroup sensitivity analyses were conducted for exclusive breastfeeding.

Nineteen trials including 2,740 participants, 226 of which were dyads were included. Intervention increased any breastfeeding at ≥6 months [OR 1.43, 95% CI (1.05–1.95)] and women in the intervention group were 90% more likely to exclusively breastfeed at 1-2 weeks [OR 1.9, 95% CI (1.17-3.09)] and more than twice as likely to exclusively breastfeed at 4-6 weeks [OR 2.23, 95% CI (1.27–3.90)] within the sensitivity analysis.

Breastfeeding interventions in women with gestational diabetes or high BMIs may improve exclusive breastfeeding in the early postpartum period and any breastfeeding from 6 months. The number of trials included was limited and further randomised controlled trials with harmonised outcome reporting are needed to confirm the effect of breastfeeding interventions in these at-risk groups.

References

- World Health Organization (2003)
- Finkelstein SA, Keely E, Feig DS, et al. (2013) Diabet Med 30, 1094-1101.
- 3. Babendure JB, Reifsnider E, Mendias E, et al. (2015) Int Breastfeed 10.