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Impact of breastfeeding on infectious disease hospitalisation: the Children of 1997 cohort

M Tarrant *, CM Schooling, SLS Leung, KH Mak, LM Ho, GM Leung

Key Messages
1. Breastfeeding for any duration substantially reduces hospitalisation from respiratory infections in Hong Kong infants from 0 to 6 months of age.
2. Exclusive breastfeeding for 3 months or longer substantially reduces hospitalisation from gastrointestinal infections in Hong Kong infants from 0 to 6 months of age.
3. Breastfeeding did not provide any long-term protective effect against infectious diseases hospitalisation in Hong Kong children.

Infectious disease is one of the leading causes of morbidity and hospitalisation in infants and young children. It is well established that breastfeeding substantially reduces the risk of infectious disease morbidity and mortality among this population. Breastfeeding may also have a long-term protective effect on resistance to infections. Although the exact mechanism is unclear, it is believed to be a result of human milk-mediated effects that produce a better functioning immune system in breastfed children. The World Health Organization recommends that infants be exclusively breastfed for 6 months with continued breastfeeding for up to 2 years of age and beyond.1 T is recommendation is based on the evidence that breastfed children grow up to be healthier and suffer lower rates of both infectious and chronic diseases. Although the breastfeeding rate in Hong Kong is increasing, it lags behind many other developed countries. T e study reported that any amount of breastfeeding for ≥3 months reduced hospitalisation for respiratory, gastrointestinal, and any infections in infants aged 0 to 6 months; the reduction in hospitalisation was substantially greater with ≥3 months of exclusive breastfeeding.4 Beyond 6 months of age, however, breastfeeding of any type did not provide protection from infectious disease hospitalisation. T ese findings suggest that the protective effect of breastfeeding is consistent with a direct stimulation of the infant’s immune system through the transfer of antibodies and lymphocytes, and that breastfeeding does not provide a priming of the immune system that lasts substantially longer than the period of breastfeeding.

T e protective effect of breastfeeding against infectious disease is dose-dependent, with a longer duration of exclusive breastfeeding conferring greater benefits.1 M others should be encouraged and supported to breastfeed for a longer period and to meet the World Health Organization guidelines for 6 months of exclusive breastfeeding and continued breastfeeding for up to 2 year of age and beyond. Nonetheless, the challenge in Hong Kong is putting in place the mechanisms and supports to assist mothers to exclusively breastfeed for up to 6 months.

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References