



one year. ♦ 1\_Baby's name? ♦ 2\_Baby's Weight ♦ 3\_Baby's age? ♦ 4\_Gestational age? ♦ 5\_Baby's born? Before 37 weeks , Between 37 and 42 weeks , After 42 weeks ♦ 6\_The financial condition of the family? Mediocre , Poor , Good ♦ 7\_Type of feeding? Breast feeding only , Bottle feeding only , mixed feeding( Breast feeding with bottle feeding) ♦ 8\_ Is the mother smoking? ♦ 9\_Is the mother has any chronic disease? ♦ 10\_The type of infection? Bronchiolitis , Asthma , Pneumonia ,Other ♦ 11\_ The intensity of infection? Severe , Moderate Procedure Surveys were distributed to participants via website was published through various social media platforms. The website contained description about the research project, request for participation and the consent form . In all, 173 people decided to participate in this study .Confidentiality of all participants was guaranteed through the use of coding with random participant numbers. Internet Protocol addresses were not collected from participants. Survey data remained anonymous among participants.

Discussion To better understand the results of this study, it is useful to place them in the broader context of previous research. One of the more widely published findings on the relationship between breastfeeding and concurrent illness is the decreased incidence of respiratory infections in children who breastfeed when compared to children who do not. The findings of this study – that both exclusive and non-exclusive breastfeeding are protective against respiratory infections – therefore echo the findings of multiple other studies [4,5,6]. This study further clarifies these relationships by indicating that the protective effects of breastfeeding remain at work at least through the age of 18 months for children who continue to receive breastmilk. This is not an unprecedented discovery as, according to a meta-analysis published in 2015, cumulative evidence supports that breastfeeding protects against respiratory infections until the age of 2 years [7]. This study also followed these trends through the age of 18 months, showing that the protective properties of breastfeeding continue through this age range in children who continue to receive breastmilk, but that the protection is somewhat less in the older age group. Additionally, this study found exclusive and non-exclusive breastfeeding between ages 3– 6 months to be protective against respiratory infections with fever. A study conducted by Cushing et al. found, like we did, that the risk of upper respiratory infection increased with breastfeeding, but the association was not statistically significant [8]. Dewey et al. found no association between breastfeeding and the frequency of respiratory infections (which they claim were nearly all upper respiratory infections) in the first or second year of life, when comparing children who breastfed for 12 months or more to children who never breastfed [9]. And multiple studies actually found breastfeeding to be associated with lower risk of upper respiratory tract infections [10,11], or acute respiratory infections in general [12, 13]. An important strength of this study is the large study population drawn from the general population. On the basis of previous findings in our cohort, respiratory illnesses are socially patterned and related to several mother and child characteristics. Our study design provided information on multiple potential confounders and allowed for follow-up into childhood We hypothesize that the apparent positive association between breastfeeding and the common cold may not represent a true causal relationship. This leads us to consider one potential limitation of this study – namely that this study relies upon parental report for its data. Although data is collected on a regular basis from parents, parents may differ in the accuracy of their reporting, or their consideration of what constitutes a true

illness. This variability may be magnified for so-called “minor” illnesses, like the common cold. Therefore, the perceived effect of breastfeeding on odds of respiratory illness could plausibly be the result of breastfeeding mothers’ hyper-vigilance in regards to noticing and/or reporting upper respiratory symptoms. A causal relationship is not outside the realm of possibility, however. The breastfeeding relationship places infants and mothers in very close proximity on a very regular basis, perhaps facilitating transmission of respiratory viruses. Alternatively, mothers of children with more frequent respiratory symptoms may choose to breast feed for longer to impart to their children perceived health benefits derived from breast milk. It is also possible, as suggested above, that respiratory illnesses in breastfeeding children tend to be less severe than those in children who do not breast feed, and therefore more frequently present as common cold, instead of manifesting as febrile illness. Finally, as our aim was to assess the effect of exclusive breastfeeding on the risk of respiratory infections, we decided to include children with partial breastfeeding and those with artificial feeding in the same subgroup. This is a typical issue in the design of studies on breastfeeding and health outcomes and might have biased in the resulting effect of breastfeeding on respiratory infections.

Recommendation Breast feeding is one of the most important neonatal , infant , and child health , growth , and development. Apart from the clear nutritional superiority of breast milk, breast feeding protect against infant death and morbidity. exclusively breast fed infant are likely to suffer only a quarter as many episodes of diarrhoea and respiratory infection as babies who are not . Mothers benefit from breast feeding as it reduces the risk of pph and lowers the risk of breast and ovarian cancers Reference 1-ASM Journals, Clinical Microbiology Reviews, Respiratory Viral Infections in Infants: Causes, Clinical Symptoms, Virology, and Immunology, <https://journals.asm.org/doi/10.1128/CMR.00032-09> 2-frontiers ,in Pediatrics , Breastfeeding Contributes to Physiological Immune Programming in the Newborn, [https:// www.frontiersin.org/articles/10.3389/fped.2021.744104/full](https://www.frontiersin.org/articles/10.3389/fped.2021.744104/full) 3-nhs , How long do babies carry their mother's immunity?, [https://www.nhs.uk/common-health-questions/childrenshealth/how-long-do-babies-carry-their-mothers-immunity/](https://www.nhs.uk/common-health-questions/childrens-health/how-long-do-babies-carry-their-mothers-immunity/) 4-Aniansson G, Alm B, Andersson B, Hakansson A, Larsson P, Nylen O, Peterson H, Rigner P, Svanborg M, Sabharwal H, Svanborg C. A prospective cohort study on breast-feeding and otitis media in Swedish infants. *Pediatr Infect Dis J.* 1994;13(3):183–8. 5. Duffy LC, Faden H, Wasielewski R, Wolf J, Krystofik D. Tonawanda/Williamsville pediatrics. Exclusive breastfeeding protects against bacterial colonization and day care exposure to otitis media. *Pediatrics.* 1997;100(4):E7 6. Dewey KG, Heinig MJ, Nommsen-Rivers LA. Differences in morbidity between breast-fed and formula-fed infants. *J Pediatr.* 1995;126(5):696–702. 7. Bowatte G, Tham R, Allen KJ, et al. Breastfeeding and childhood acute otitis media: a systematic review and meta-analysis. *Acta Paediatr.* 2015;104(467):85–95. 8. Cushing AH, Samet JM, Lambert WE, Skipper BJ, Hunt WC, Young SA, McLaren LC. Breastfeeding reduces risk of respiratory illness in infants. *Am J Epidemiol.* 1998;147(9):863–70 9. Dewey KG, Heinig MJ, Nommsen-Rivers LA. Differences in morbidity between breast-fed and formula-fed infants. *J Pediatr.* 1995;126(5):696–702. 10. Duijts L, Jaddoe VWV, Hofman A, Moll HA. Prolonged and exclusive breastfeeding reduces the risk of infectious diseases in infancy. *Pediatrics.* 2010;126(1):e18–25. 11. Oddy WH, Sly PD, de Klerk NH, Landau LI, Kendall GE, Holt PG, Stanley FJ. Breast feeding and respiratory morbidity in infancy: a birth cohort study. *Arch Dis Child.* 2003;88:224–8. 12. Lopez-Alarcon M, Villalpando S, Fajardo A. Breastfeeding lowers the frequency and duration of acute respiratory infection and diarrhea in infants under six months of age. *J Nutr.* 1997;127(3):436–43. 13. Etiler N,

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