

[Look Up Full Text](#)
[Find PDF](#)
[Full Text Options](#)
[Export...](#)
[Add to Marked List](#)

## Breast milk expression for premature infant in the neonatal intensive care unit: A review of mothers' perceptions

By: [Abu Bakar, SA](#) (Abu Bakar, Siti Azuna)<sup>[1]</sup>; [Muda, SM](#) (Muda, Siti Mariam)<sup>[1]</sup>; [Arifin, SRM](#) (Arifin, Siti Roshaidai Mohd)<sup>[1]</sup>; [Ishak, S](#) (Ishak, Shareena)<sup>[2]</sup>  
[View Web of Science ResearcherID and ORCID](#)

ENFERMERIA CLINICA  
 Volume: 29 Pages: 725-732 Supplement: 2  
 DOI: 10.1016/j.enfcli.2019.06.012  
 Published: SEP 2019  
 Document Type: Review

### Abstract

Objective: To identify the existing literature on mothers' perception towards the impact of expressing breast milk for their premature infant in the neonatal intensive care unit.

Method: Guided by the PRISMA Statement review checklist, a systematic review of the Scopus and Web of Science database has identified 10 related studies. The articles were assessed and analyzed after evaluated using The Joanna Briggs Institute Critical Appraisal tools (JBI). Thematic analysis was obtained after using Nvivo software as a tool for data analysis by author.

Result: Further review of these articles resulted in three main themes-maternal changes during expressing breast milk, pumping challenges and impact of motivation factors to initiating lactation.

Conclusion: Expressing breast milk should be recognized as an important way to restructure motherhood with a preterm infant in NICU. However, maintaining expressed breast milk during preterm infants' treatment period in NICU may increase stress and difficulties for some mothers. Some recommendations are emphasized in relation to the need for more qualitative studies in this issue, which is to have a specific and standard systematic review method for guide research synthesis in context of climate change adaptation. (C) 2019 Published by Elsevier Espana, S.L.U.

### Keywords

Author Keywords: [Expressed breast](#); [Breast milk expression](#); [Premature infant](#); [Preterm](#); [Mother](#); [Neonatal intensive care unit](#)  
 KeyWords Plus: [PRETERM INFANTS](#); [EXPERIENCES](#); [INITIATION](#); [NICU](#)

### Author Information

Reprint Address: Muda, SM (reprint author)  
 Int Islamic Univ, Kulliyah Nursing, Gambang, Pahang, Malaysia.  
 Addresses:  
 [ 1 ] Int Islamic Univ, Kulliyah Nursing, Gambang, Pahang, Malaysia  
 [ 2 ] Natl Univ Malaysia Med Ctr UKMMC, Neonatal Intens Care Unit, Kuala Lumpur, Malaysia  
 E-mail Addresses: [sitimariam@iium.edu.my](mailto:sitimariam@iium.edu.my)

### Publisher

ELSEVIER ESPANA SLU, AV JOSEP TARRADELLAS, 20-30, 1ERA PLANTA, BARCELONA, CP-08029, SPAIN

### Categories / Classification

Research Areas: [Nursing](#)  
 Web of Science Categories: [Nursing](#)

### See more data fields

### Citation Network

In Web of Science Core Collection

0  
Times Cited

[Create Citation Alert](#)

18  
Cited References

[View Related Records](#)

### Use in Web of Science

Web of Science Usage Count

0 0  
Last 180 Days Since 2013

[Learn more](#)

This record is from:  
**Web of Science Core Collection**  
 - Emerging Sources Citation Index

### Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

## Cited References: 18

Showing 18 of 18 [View All in Cited References page](#)

(from Web of Science Core Collection)

- Mothers' Breastfeeding Experiences in the NICU** Times Cited: 33  
 By: [Boucher, Camille A.](#); [Brazal, Paola M.](#); [Graham-Certosini, Cynthia](#); et al.  
 NEONATAL NETWORK Volume: 30 Issue: 1 Pages: 21-28 Published: JAN-FEB 2011
- "I Had One Job and That Was To Make Milk": Mothers' Experiences Expressing Milk for Their Very-Low-Birth-Weight Infants** Times Cited: 9  
 By: [Bower, Katherine](#); [Burnette, Tara](#); [Lewis, Daniel](#); et al.

3. **Mothers' Experiences Expressing Breast Milk for Their Preterm Infants Does NICU Design Make a Difference?** Times Cited: 18  
By: Dowling, Donna A.; Blatz, Mary Ann; Graham, Gregory  
ADVANCES IN NEONATAL CARE Volume: 12 Issue: 6 Pages: 377-384 Published: DEC 2012
4. **Breastfeeding and the use of human milk** Times Cited: 3,165  
By: Gartner, LM; Morton, J; Lawrence, RA; et al.  
PEDIATRICS Volume: 115 Issue: 2 Pages: 496-506 Published: FEB 2005
5. **Infants Born Late/Moderately Preterm Are at Increased Risk for a Positive Autism Screen at 2 Years of Age** Times Cited: 43  
By: Guy, Alexa; Seaton, Sarah E.; Boyle, Elaine M.; et al.  
JOURNAL OF PEDIATRICS Volume: 166 Issue: 2 Pages: 269+ Published: FEB 2015
6. Title: [not available] Times Cited: 1  
By: Henderson, JL.  
It's like going home to emptiness." Becoming a mother and providing mother's milk to premature infants in the neonatal intensive care unit, a Latina mother's perspective Pages: 178 Published: 2015  
Internet ProQuest Diss Theses
7. **Providing Mother's Own Milk in the Context of the NICU: A Paradoxical Experience** Times Cited: 30  
By: Hurst, Nancy; Engebretson, Joan; Mahoney, Jane S.  
JOURNAL OF HUMAN LACTATION Volume: 29 Issue: 3 Special Issue: SI Pages: 366-373 Published: AUG 2013
8. **Trying to Live With Pumping: Expressing Milk for Preterm or Small for Gestational Age Infants** Times Cited: 7  
By: Ikonen, Riikka; Paavilainen, Eija; Kaunonen, Marja  
MCN-THE AMERICAN JOURNAL OF MATERNAL-CHILD NURSING Volume: 41 Issue: 2 Pages: 110-115 Published: MAR-APR 2016
9. **Neurodevelopmental outcomes following late and moderate prematurity: a population-based cohort study** Times Cited: 81  
By: Johnson, Samantha; Evans, T. Alun; Draper, Elizabeth S.; et al.  
ARCHIVES OF DISEASE IN CHILDHOOD-FETAL AND NEONATAL EDITION Volume: 100 Issue: 4 Pages: F301-F308 Published: JUL 2015
10. **Comparison of state risk-appropriate neonatal care policies with the 2012 AAP policy statement** Times Cited: 6  
By: Kroelinger, Charlan D.; Okoroh, Ekwutosi M.; Goodman, David A.; et al.  
JOURNAL OF PERINATOLOGY Volume: 38 Issue: 4 Pages: 411-420 Published: APR 2018
11. **The experiences of mothers in breastfeeding their very low birth weight infants** Times Cited: 23  
By: Lee, Tzu-Ying; Lee, Ting-Ting; Kuo, Su-Chen  
JOURNAL OF ADVANCED NURSING Volume: 65 Issue: 12 Pages: 2523-2531 Published: DEC 2009
12. **Prediction of initiation and duration of breast-feeding for neonates admitted to the neonatal intensive care unit** Times Cited: 29  
By: Lessen, Rachele; Crivelli-Kovach, Andrea  
JOURNAL OF PERINATAL & NEONATAL NURSING Volume: 21 Issue: 3 Pages: 256-266 Published: JUL-SEP 2007
13. **Maternal birthplace and breastfeeding initiation among term and preterm infants: A statewide assessment for Massachusetts** Times Cited: 83  
By: Merewood, Anne; Brooks, Daniel; Bauchner, Howard; et al.  
PEDIATRICS Volume: 118 Issue: 4 Pages: E1048-E1054 Published: OCT 2006
14. **Mothers' decisions to change from formula to mothers' milk for very-low-birth-weight infants** Times Cited: 63  
By: Miracle, DJ; Meier, PP; Bennett, PA  
JOGNN-JOURNAL OF OBSTETRIC GYNECOLOGIC AND NEONATAL NURSING Volume: 33 Issue: 6 Pages: 692-703 Published: NOV-DEC 2004
15. **"I Have Faith in My Milk": The Meaning of Milk for Mothers of Very Low Birth Weight Infants Hospitalized in the Neonatal Intensive Care Unit** Times Cited: 31  
By: Rossman, Beverly; Kratovil, Amanda L.; Greene, Michelle M.; et al.  
JOURNAL OF HUMAN LACTATION Volume: 29 Issue: 3 Special Issue: SI Pages: 359-365 Published: AUG 2013
16. **Breast Milk Expression and Maintenance in Mothers of Very Low Birth Weight Infants: Supports and Barriers** Times Cited: 35  
By: Sisk, Paula; Quandt, Sara; Parson, Nikki; et al.  
JOURNAL OF HUMAN LACTATION Volume: 26 Issue: 4 Pages: 368-375 Published: NOV 2010
17. Title: [not available] Times Cited: 29  
Group Author(s): W.H.O  
Preterm Birth Published: 2016  
Fact Sheet  
Publisher: World Health Organization, Geneva, Switzerland
18. **Perceptions of mothers expressing breast milk on the neonatal unit following preterm delivery** Times Cited: 3  
By: Wilson, D.  
Infant Volume: 8 Issue: 6 Pages: 187-190 Published: 2012

