

**WIC
and
MILK BANKS:
Working Together**

NWA 2014 Nutrition Education and Breastfeeding Conference

Janice Sneider O'Rourke, MPA, RD

The Milk Bank:

- Mission, Vision, Values
- History

Milk Banking

Pasteurized Donor Human Milk

Collaboration

Overview


The logo for the Indiana Mothers' Milk Bank is superimposed on a glass flask containing a light-colored liquid. The flask has a '2000' volume mark. The logo features the word 'indiana' in a gold script font, 'mothers' in a blue script font, and 'MILK BANK, INC.' in a bold blue sans-serif font. A stylized blue outline of a mother and child is positioned between 'indiana' and 'mothers'. Below the main text is the tagline 'Sharing the Gift of Mothers' Milk' in a smaller blue font.

indiana mothers'
MILK BANK, INC.
Sharing the Gift of Mothers' Milk

The Milk Bank logo consists of a dark blue square icon containing a white outline of a milk drop.

The Milk Bank
*Providing safe mothers' milk
for fragile infants*





Mission:

-  The Milk Bank is a non-profit organization that promotes community health by expanding the safe use of human milk for all babies, especially premature and ill infants.



Vision:

-  Every child has access to safe human milk.




Mission and Vision

-  Human milk should be available to all ill and premature infants
-  An educated community understands the need for human milk for all babies
-  Safe human milk offers the best health care outcomes for premature and ill infants
-  Pasteurized donor human milk decreases health care costs

Values
91062

-  Safely screen, collect, pasteurize, and distribute donor human milk to premature infants and others.
-  Collaborate to support and educate the community in order to promote the awareness and acceptance of breastfeeding and donor milk.

Core Programs

-  Community-based milk bank
-  Funded by donations, grants, and fee-for-service
-  Member of HMBANA

The Milk Bank History

- ❖ Established in 1985 to standardize procedures
- ❖ Ensures quality control of donor milk
- ❖ Provides a forum for networking among experts
- ❖ Provides information on benefits and indications for using banked human milk
- ❖ Provides communication among milk banks to assure adequate supply for all patients
- ❖ Serves as liaison between member institutions and governmental regulatory agencies
- ❖ Encourages research, education and evidence-based practice









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HMBANA Milk Bank Locations







HMBANA

-  Next best option when infants own mothers milk is absent.
-  Optimal Nutrition.
-  Easy digestibility.
-  Immunologic protection against many organisms and diseases.
-  Protects immature tissue.
-  Promotes maturation of the gut, preventing the incidence of NEC.
-  Promotes healing of previously damaged tissue from infection.
-  Endorsed by the AAP, WHO/UNICEF and the CDC.







Why Use Donor Milk?

Donor Milk

-  Donor mothers are screened verbally
-  Written medical history along with consent forms from both mom's and baby's MD
-  Blood screening
-  All Donor Moms are educated and given full support on safe handling of the milk



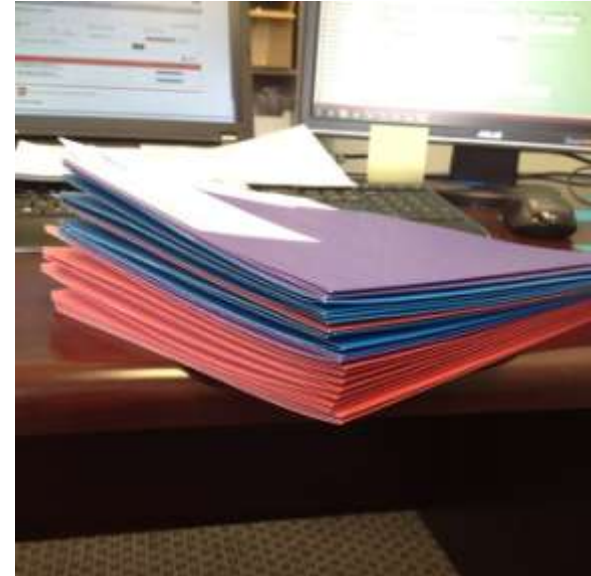
Milk Safety: Donor Screening & Approval

-  Currently lactating & have surplus milk
-  In good general health
-  Willing to undergo blood test
-  Not on medications or herbal supplements
-  Willing to donate suggested minimum of 100 oz. of milk
-  Within 24 months of delivering an infant



Step 1: Donor Mother Pre-Screening

- ❖ The donor completes 4 forms including:
- ❖ Donor Consent Form
- ❖ Donor Medical History Form
- ❖ Health Care Provider Release
- ❖ Baby's Health Care Provider Release (waived for bereavement mothers)




Step 2: Complete Donor Packet

- ❖ Donor mother must consent to a serological test for the following:
 - ❖ HIV - 1,2 & 0
 - ❖ HTLV - 1 & 2
 - ❖ Hepatitis C
 - ❖ Hepatitis B surface antigen
 - ❖ Syphilis RPR



Step 3: Serological Testing

-  The Potential Donor's medical history, lifestyle questionnaire, blood serology and any pharmacological contraindications are rigorously reviewed by IMMB's Clinical Coordinator, an International board certified lactation consultant (IBCLC), before approval is given.



Step 4: Donor Approval

-  Drop Off
-  Shipping
-  Milk Depots



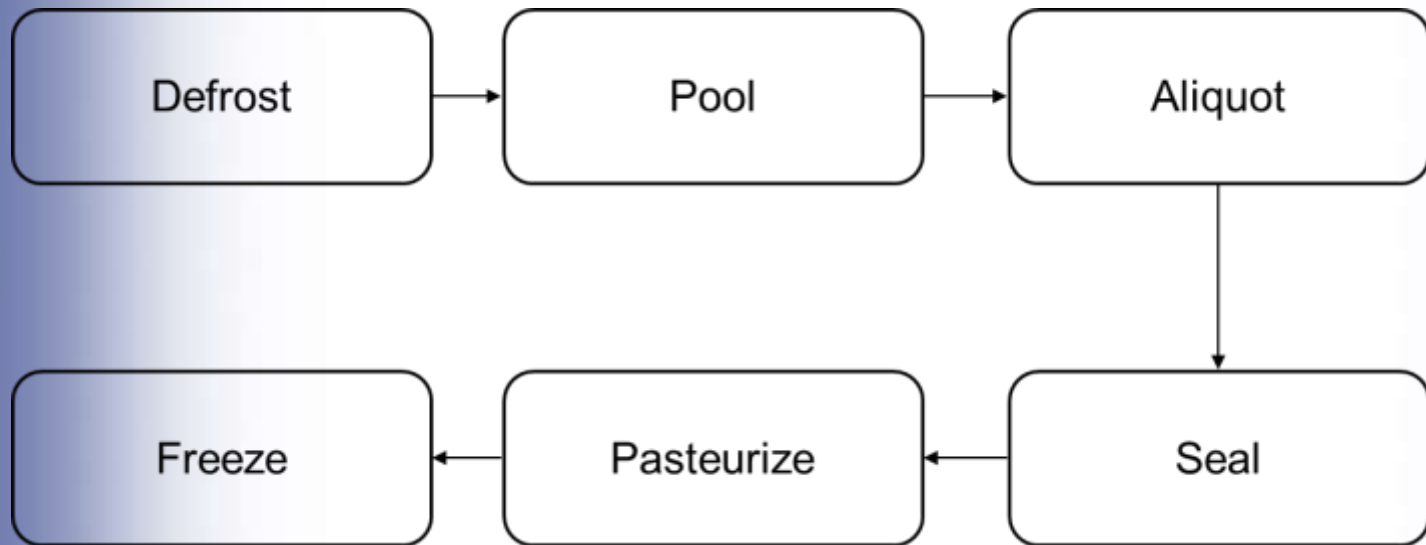
Procuring Milk
LOCAL MILK



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Procuring Milk
BLOCCALUO WILK



Pasteurization Process

- ❖ Milk from 2 - 5 donors taken from the pre-pasteurization freezer
- ❖ Placed into defrosting refrigerator.
- ❖ Defrosted over a 48 hour period at a temperature of approximately 10° Celsius



Defrosting the Milk

- ❖ After the milk is completely defrosted, it is poured into several glass beakers by the pasteurization technician. The milk is thoroughly mixed to ensure an even distribution of components such as fat, protein, and immunologic properties



Pooling the Milk

- After it is thoroughly mixed, the milk is aliquoted into special bottles that can withstand the heat of pasteurization.






- The bottles are then sealed using an induction cap sealer. Every seal is checked to ensure quality control.

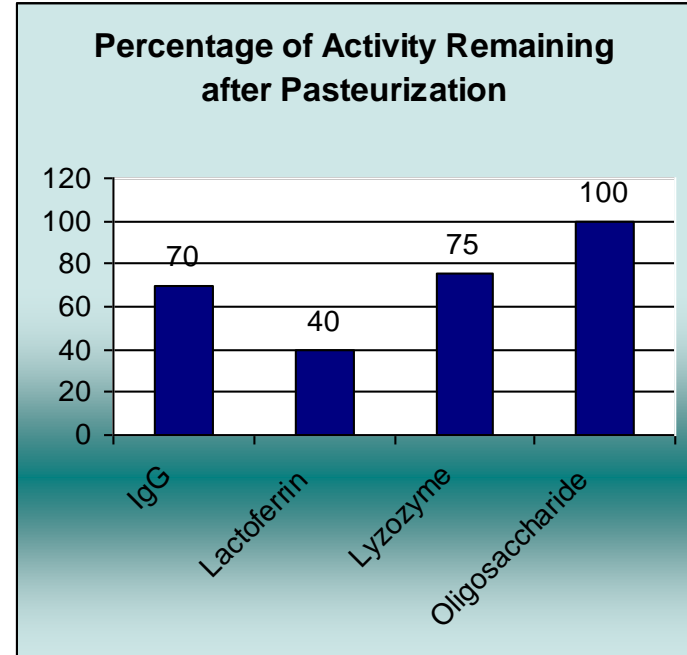
Pouring & Sealing

- After sealing, the bottles are placed into the pasteurizer.
- The pasteurizer warms the milk to a temperature of 62.5° Celsius for 30 minutes and then proceeds into a rapid cooling cycle.



Pasteurizing

-  Lysozyme retains 75% of its activity.
-  Lipase is inactivated by pasteurization.
-  Oligosaccharides are unchanged and unaffected.



Effects of Pasteurization

- ❑ Random sample from each pasteurized batch is tested for bacterial growth.
- ❑ Only batches with no bacterial growth are approved to be sent to hospital NICUs or outpatient recipients.



Microbiology Testing & Approval

- As part of the healing process, we offer bereaved families the opportunity to have their little one join our Giving Tree Memorial. This beautiful plaque tree is displayed in our office to honor babies who have passed and families who have donated in their memory. Bereaved families are not turned away for any reason.




Garrett's Gift

- ❏ One day's care in the NICU during the first 2-3 weeks of life can cost over \$4000
- ❏ For an infant hospitalized for 2 months, this cost can exceed \$240,000 (Ward, 2010)
- ❏ A 2001 study found that preterm infants fed human milk spent 15 fewer days hospitalized than those receiving formula (Wight, 2001).

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Why Donor Milk in the NICU?

 How can WIC collaborate with milk banks?



Collaboration
collaboration

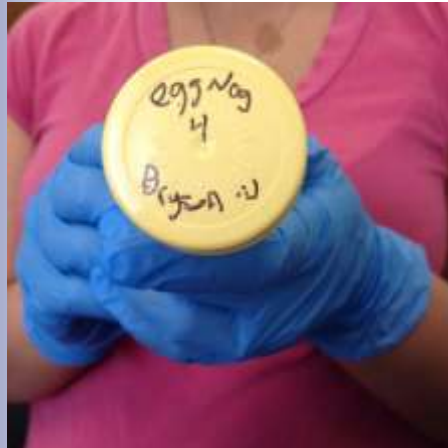
-  Educate all staff
-  Prenatal breastfeeding classes
-  Peer Counselors
-  Breastfeeding Support Groups



Collaboration: Training



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Collaboration: Referral

 Donor Collection Sites



Collaboration: Milk Depots

Donor Collection Sites

For our milk depots, the IMMB:





- ◆ Provides an 18-22 cubic foot freezer
- ◆ Reimburses expenses related to the procurement of dry ice for shipping
- ◆ Provides blood kits for depots that can also draw blood for our donors
- ◆ Provides shipping containers and return labels for shipping the milk back to us.

Our depots:

- ◆ Place the freezer in a secure location with an uninterrupted power source
- ◆ Monitor the freezer temperature
- ◆ Accept milk donations from approved donors
- ◆ Ship the milk to the IMMB in a timely manner.

Collaboration: Milk Depots

Donor Collection Sites

-  9/22/2006 Bloomington WIC
-  4/3/2007 Michigan City WIC
-  4/2/2007 Muncie WIC
-  12/5/2008 Tippecanoe County WIC

Collaboration: Milk Depots

'Milk depot' gives breast-feeding mothers way to help babies in need

By TAYA FLORES
thosajournal.com

The fifth "milk depot" in the state has opened in Tippecanoe County, giving breast-feeding mothers a place to donate their milk for babies who need it.

Cheri Daniels, Indiana's first lady, was in Lafayette on Friday to praise the collaborative effort between the Indiana Mothers' Milk Bank and the Tippecanoe County Women, Infants and Children (WIC) Office.

"I breast-fed all four of my daughters, and I wish there would have been something like this at that time because I could have participated as a donor," Daniels said Friday.

The Tippecanoe County site is the fifth in the state, and the fourth depot to partner with WIC, a federal nutrition program for low-income women, infants and children.

The other four depots are located in Muncie, Michigan City, Bloomington and Fort Wayne.

The donated milk is taken to the Indiana Mothers' Milk Bank in Indianapolis. A majority of the milk goes to premature and sick infants in hospital neonatal intensive care units and is dispensed by a physician's prescription, said Janice O'Rourke, executive director of the milk bank.

O'Rourke said human milk is the ideal food for premature and sick infants. But some mothers are unable to provide sufficient breast milk for a variety of reasons, including



By Webster Gray/Journal & Courier

Cheri Daniels, wife of Gov. Mitch Daniels, holds a proclamation Friday as she helps open Indiana's fifth breast milk collection site at the Tippecanoe County WIC Office in Lafayette.

What you can do

To donate, call the Indiana Mothers' Milk Bank at (317) 329-7346. Donors need to be healthy, lactating women who have delivered an infant within the past 12 months. Donors must not be users of nicotine products.

The local depot is at the Tippecanoe County WIC Office, 1322 Tippecanoe St. in Lafayette.

illness, the rigors of feeding multiple infants or lactation hormones working improperly as a result of premature birth.

The milk bank charges hospitals about half of what it

costs to process the milk, and the rest of the costs are covered by donations and grants, O'Rourke said.

Nine hospitals in Indiana receive milk from the bank, she said.

Lactating mothers have to go through a screening process before they can become donors.

Wendy Fordling, a Lafayette mother who has been donating breast milk since January, said it was rewarding to know that her extra milk would be used instead of going to waste.

Fordling made a donation to the milk bank on Friday.

"I hope that by having this location local people will learn of the need for breast milk and also be willing to contribute," Fordling said.

"I breast-fed all four of my daughters, and I wish ... I could have participated as a donor."

Cheri Daniels, Indiana's first lady

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Collaboration: Milk Depots



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Collaboration: Milk Depots

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would like to thank the

**Tippecanoe County WIC
Milk Depot**

*for their outstanding efforts in
helping improve the health of our
state's premature and ill infants.
The generous time and efforts you
give help us share the gift of
mothers' milk!*

To you it may be just milk **TO US IT'S LIFE!**



Collaboration: Milk Depots

 **Denver**

-  Participate in events
-  No depots

 **Boston**

-  Participate in events
-  No depots

 **Oklahoma**

-  Part of WIC State Breastfeeding Taskforce
-  No depots

Collaboration: Other States

 **Austin, Texas**

-  Depots
-  Provide peer counselor training, staff inservice

 **Missouri**

-  One depot
-  Work with State Office

 **Iowa**

-  One depot

Collaboration: Other States

Story County Human Services Milk Collection Depot for the Mother's Milk Bank of Iowa



WIC Office

226 SE 16th Street

Ames, IA 50010

**Donations accepted
M-F 9am-4pm.**

For more information

**Comments,
Questions,
Discussion**

Contact Information:

Janice Sneider O'Rourke

jorourke@themilkbank.org

www.themilkbank.org