

# My story



NCDHHS, Division of Public Health, Women's Health Branch | FABMS: What are they and how do they work? | February 5, 2020

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### **Presentation Overview**

- What are Fertility Awareness Based Methods of family planning (FABMs)
- The Female Cycle: What Happens and Why?
- $\bullet$  Estimating the effectiveness of FABMs
- Overview of Effectiveness of specific FABMs

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### What are Fertility Awareness Based Methods (FABMs)?

Methods that allow people to track one or more signs of fertility (biomarkers) to determine the days during each menstrual cycle when the chances of conception would be highest and lowest.

### FABMs can be used to:

- > Avoid pregnancy
- ➤ Plan pregnancy
- > Monitor health

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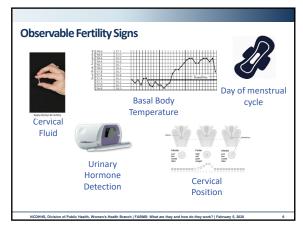
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### Who uses FABMs?

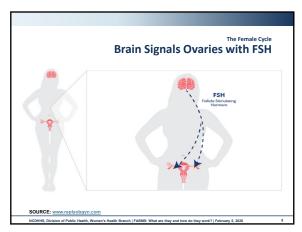
- Likely underrepresented in national surveys
- Growing over the last decade in the US
  - $\circ$  US National Survey of Family Growth (NSFG)
  - o US Title X (Family Planning)
- Currently: 2% 3% of all contraceptive users globally
- 0.31% of LHD family planning clinic users in NC

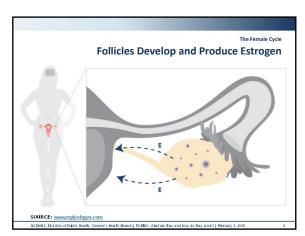
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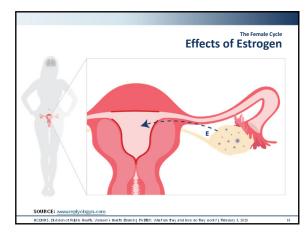
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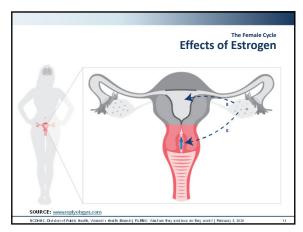


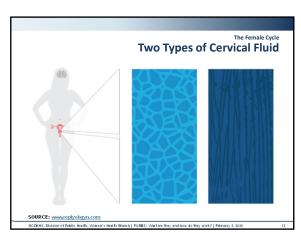
Major Categories of FABMs with some examples	
FABM category	Examples of FABM methods
Calendar-based (menstrual cycle)	Dynamic Optimal Timing, Rhythm Method, Standard Days Method, many "Period trackers"
Cervical mucus-based	Billings Ovulation Method, Creighton Model Fertility Care System, Two-Day Method
Temperature-based	Bioself, Daysy, Marshall, Natural Cycles
Symptothermal (multiple indicator methods)	Couple to Couple League, Justisse, Sensiplan, Symptopro, Taking Charge of Your Fertility
Urinary hormone-based	Marquette, Persona

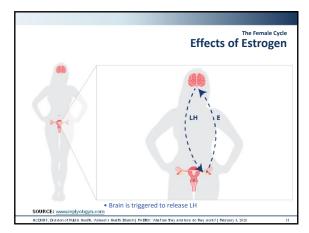


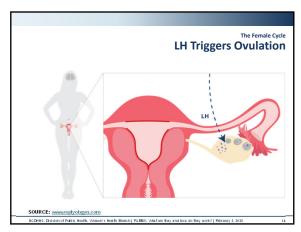




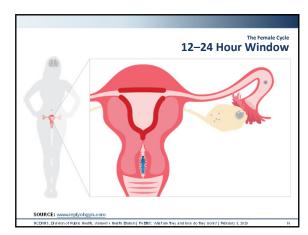


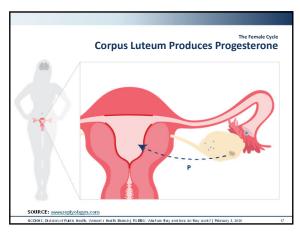


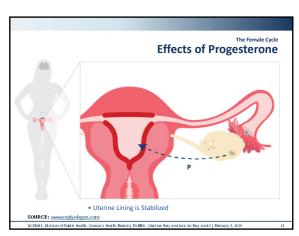


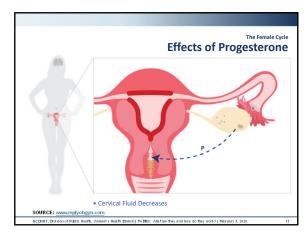




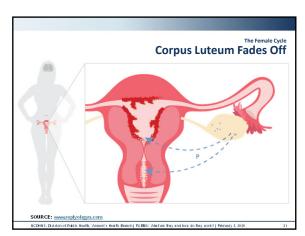


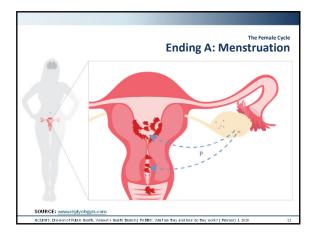


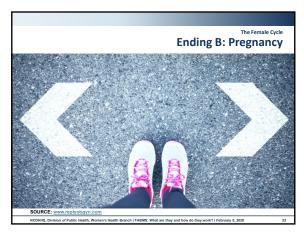


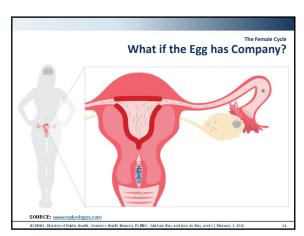


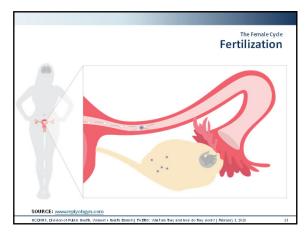


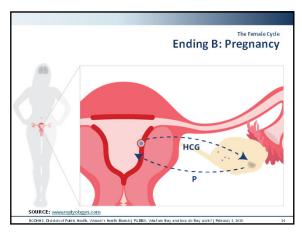


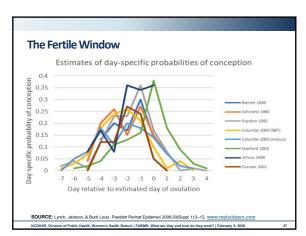


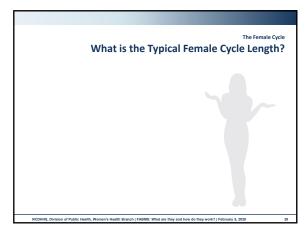


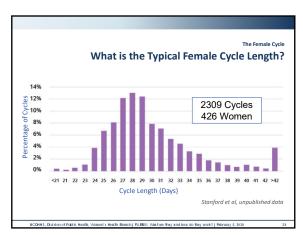


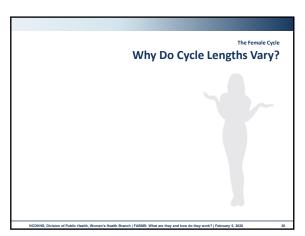


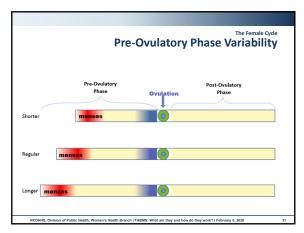




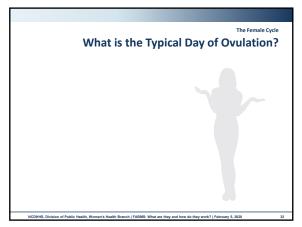


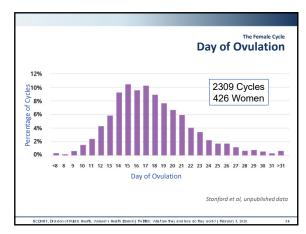


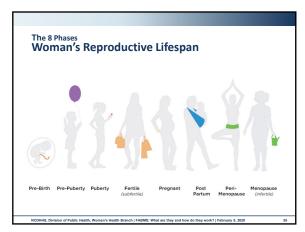




# What is "normal" variation? • FIGO: more than 20 days of variation is "irregular" (>95%) • For some FABMs, variation of 7 or more days makes it hard or impossible to use the method • Variable length menses of 7 or more days may need clinical investigation SOURCE: Frace 8 of 3. The FIGO Recommendations on Terminologies and Confidence for Normal and Absorbant Libraria Blanding, Sum Regard Med 2011, 20(3)3359.6. Available or the Interior was public contract contents (2014) of 1507 Frace Seams Regard Med 2011, 20(3)3359.6. Available or the Interior was public contract contents (2014) of 1507 Frace Seams Regard Med 2011, 20(3)3359.6. Available or the Interior was public contract contents (2014) of 1507 Frace Seams Regard Med 2011, 20(3)3359.6. Available or the Interior was public contract contents (2014) of 1507 Frace Seams Regard Med 2011, 20(3)3359.6. Available or the Interior was public contents (2014) of 1507 Frace Seams Regard Med 2011, 20(3)3359.6. Available or the Interior was public contents (2014) of 1507 Frace Seams Regard Med 2011, 20(3)3359.6. Available or the Interior was public contents (2014) of 1507 Frace Seams Regard Med 2011, 20(3)3359.6. Available or the Interior was public contents (2014) of 1507 Frace Seams Regard Med 2011, 20(3)3359.6. Available or the Interior was public contents (2014) of 1507 Frace Seams Regard Med 2011, 20(3)3359.6. Available or the Interior was public contents (2014) of 1507 Frace Seams Regard Med 2011, 20(3)3359.6. Available or the Interior was public contents (2014) of 1507 Frace Seams Regard Med 2011, 2011





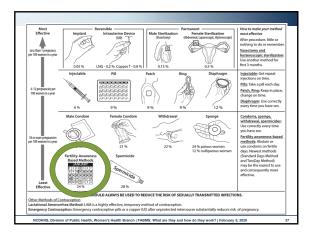


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# "Typical use" and "perfect use" contraceptive effectiveness

- Perfect use effectiveness: reflects how effective a method can be in preventing pregnancy when used consistently and correctly according to instructions.
- Typical use effectiveness: reflects how effective a method is for the average person who does not always use methods correctly or consistently.
  - May vary widely by individual characteristics, especially for methods requiring substantial effort for adherence.

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### Effectiveness estimates for "any FABM" from nationally representative retrospective surveys Publication 12-month typical use FABM\* Region (survey date) failure rate Note: primarily rhythm users Kost 2008 (2002 NSFG data) United States United States Sundaram 2017 (2006-2010 NSFG data) 15%\*\* International Polis 2016 14%\*\*\* (1990-2013 DHS data from 43 countries) Includes all who self-report use of ANY FABM, given low overall use of FABMs, rhythm users, who comprise the majority of FABM users in contexts studied. 'Unpublished setimate from Sundaram 2017, due to few intervals of FABM use. 'Unlike US estimates, data unavailable to adjust for abortion underreporting.

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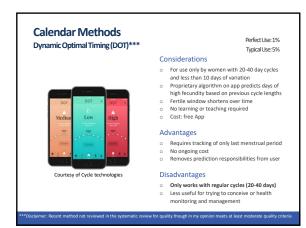
### Summary of FABM effectiveness measurement

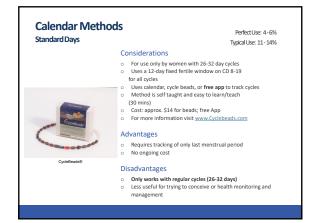
- Effectiveness can be estimated from retrospective or prospective studies; each has pros and cons.
  - Nationally representative retrospective surveys: most recent failure rate for "any FABM" (largely rhythm) in US is 15%
  - Prospective studies: Small number of moderate quality studies for 12 FABMs; best case scenario estimates
    - Highest effectiveness estimates: Sensiplan and Marquette
    - For other FABMs, typical use estimates ranged from 10-33
- · We need more data.

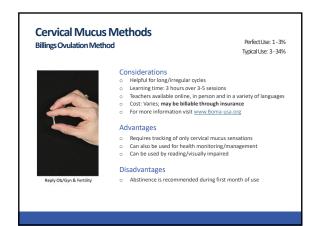
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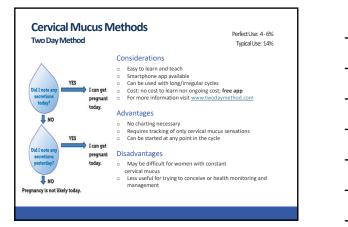


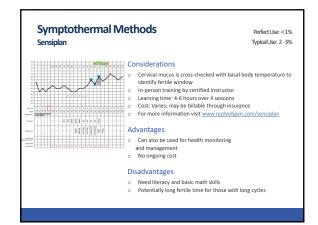
	Oynamic Optimal Timing, Rhythm Method, tandard Days Method, many "Period trackers"
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Temperature-based B	ioself, Daysy, Marshall, <b>Natural Cycles</b>
	Couple to Couple League, Justisse, <b>Sensiplan</b> , ymptopro, Taking Charge of Your Fertility

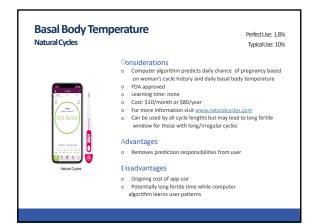


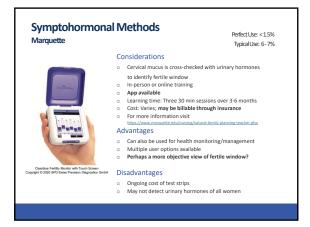












### Lactational Amenorrhea Method LAM

Perfect Use: <1% Typical Use: 2%



### Considerations

- A breastfeeding woman MUST meet the following
- three criteria:

  ✓ Exclusively breastfeeding day and night

  ✓ No return to menses since delivery

  ✓ Baby is less than six months old
  Learning time: <60 minutes

  Cost: no cost for online information

- For more info visit  $\underline{\text{www.waba.org.my/resources/lam}}$

### Advantages

- Can be used immediately after delivery No need to observe and track signs of fertility

- Disadvantages
- Temporary
  Cannot be used for health monitoring/management

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### **Summary and Conclusions**

- FABMs are a group of similar but distinct methods that work by allowing users to avoid unprotected intercourse on highly fertile days of the menstrual cycle by tracking changes in one or more biomarkers
- FABMs are used by a small but growing group of users who need accurate, transparent information
- FABMs work through biologically plausible mechanisms
- Some FABMs have undergone effectiveness testing in published studies; others have note
- Counseling tips, apps and case studies coming to another webinar

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## **Questions?**

**Next FABM Webinar:** 

March 4, 2020 (12:30 – 1:30 pm)

**How to Use FABMs in the Real World:** Counseling and Applications (Apps) Webinar

