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Establishing a pediatric prenatal visit at The Health Center (THC) in Plainfield, VT

Katie Price Dr. Houser

September 2018

### Description of Need

- The AAP has long recommended a prenatal visit as part of the continuum of well-child care. However, this visit is underutilized by new families:
  - "Although survey results show 78% of pediatricians offer a prenatal visit, only 5-39% of firsttime parents actually attend a visit." (11)
- AAP Bright Future's guidelines updated in July 2018 include the following visit objectives (11):

  - Establishing a relationship with family
    Assessing obstetric, prenatal, and family history
    Providing infant care guidance
    Evaluating psychosocial factors affecting family function
    Sharing medical home routines for visits and procedures after delivery
- THC does not currently have an established pediatric prenatal visit for expecting parents.

(THC does not provide prenatal care for pregnant mothers and not all mothers are THC patients; therefore, first contact with a new family is often at the hospital just after delivery.)

- Prenatal education
  - ▶ 51% of VT mothers took a childbirth education class (2)
  - Most prenatal education focuses on labor and childbirth with little to no information about parenting and the postpartum period. (5)
  - The PRAMS VT Survey 2012-2014 identified "a class for new parents (parenting, not childbirth)" as a requested resource by respondents. (3)
  - The pediatric prenatal visit provides infant care guidance and can connect families with community organizations that provide postpartum education. (11)

# Influence on public health

- The pediatric prenatal visit influences multiple public health measures in both child and maternal health.
  - One RCT with urban low-income families showed a prenatal visit had positive effects on breastfeeding initiation, emergency services usage, and the relationship with the provider. (10)
- Important public health measures include:
  - Breastfeeding duration
  - Postpartum mental health education, screening, and management
  - Substance use during and after pregnancy

## Public Health Costs: Breastfeeding

VT PRAMS 2015: Breastfeeding (2)

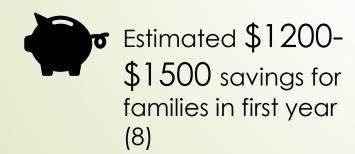
91% mothers
started
breastfeeding

83% mothers
breastfed at
4wks

77% mothers
breastfed at
8wks

In US, 51.8% mothers breastfeed at 6 months (6)

- Common barriers cited by women who have stopped breastfeeding before 6
  months include: trouble suckling or latching, inadequate supply, trouble starting
  milk flow, in sufficient weight gain, sore or crackle nipples, pain (7)
- Prenatal education can set expectations before birth and may help alleviate some of these challenges.





If 90% of families follow guidelines to breastfeed exclusively for 6mo, US save \$13B annually from direct medical and indirect costs (8)

### Public Health Costs: Postpartum Mental Health

VT PRAMS 2015: postpartum depression (5)

Prenatal: 83%
discussed what to do
if experienced
depression during or
after pregnancy

Postpartum: 91%
talked with a provider
about postpartum
depression in
postpartum period

Affordable mental
health identified as
resource need (3)

- Primary care and especially pediatric primary care is an opportune environment to monitor and manage postpartum depression due to increased frequency of contact with new parents. (9)
- Established treatment protocols are essential: "Large-scale screening efforts that are not connected to follow-up do not influence treatment access or maternal outcomes" (9)



Annual cost of not treating a mother with depression is \$7200 (4)



\$5.7B annual US cost (4).



Combined cost of not treating mother AND child is \$22,647 annually. (4)

### Public health cost: substance use

PRAMS VT 2015: substance use in third trimester (3)

16% smoked tobacco

11% smoked marijuana

16% drank alcohol; 28% of women >35yo

- 33% of smokers needed help to quit
- 25% of women with unintended pregnancies identified need for more resources to help quit smoking
- "Smoking during pregnancy is estimated to account for 20% to 30% of low-birthweight babies, up to 14% of preterm deliveries, and about 10% of all infant deaths." (1)
- Costs associated with caring for low-birthweight babies with smoking mothers are estimated to be \$20,732 in the first year of life (1)
- Evaluating environmental exposures is part of the prenatal pediatric visit.
   Screening for substance use and providing counseling can reinforce efforts by OB providers to engage pregnant mothers in cessation.

# Community Perspective

1 patient and 2 community providers were interviewed to help generate important topics to discuss during the visit

### **Ana Capone- Good Beginnings of Central Vermont**

- "Establishing social support early is essential for the transition home."
- Better communication through providers about available community resources for parent education is needed.
- We are doing a better job of screening for postpartum mood disorders, but getting families into treatment quickly is important. Optimizing referral processes and increasing awareness of local providers should be a focus.

### THC Patient, primiparous 26 weeks gestation:

- Unsure what will be most challenging postpartum.
   Most information comes from family, friends, or individual research.
- Meeting the provider before birth would be helpful to learn about breastfeeding and connecting with community education resources.

# Katy Leffel BSN, RN, CLC- Maternal-Child Health at Central Vermont Home Health Hospice "Many parents don't know what they don't

know."

- Parents receiving postpartum home visits often have questions with a focus on 'What is normal?'
- Our culture does not have a formal process of teaching essentials to parents, so a lot of basic newborn knowledge comes from practice.
- "Many parents think having home help is for families in crisis. Normalizing in-home help will benefit all families."

# Intervention and methodology

- Created provider in-office checklist for prenatal visit discussions
  - Reviewed AAP updated 2018 clinical report for goals of visit
  - Used reputable resources combined with topics gathered from community interviews to generate the visit form with questions for providers to use.
  - Created a background handout for providers detailing overarching goals of the visit and anticipated benefits for patients
- Patient Education Materials
  - Used interview material to create multiple patient education documents
    - What to expect at the Hospital'
    - Newborn and maternal care in the first few weeks at home
    - Building your circle: community classes and other resources

### **Provider Materials**

Sept 2018

### Establishing a pediatric prenatal visit

### Background

AAP Bright Futures recommends a prenatal visit for all expecting families. Updated guidelines for this visit were released in July 2018. "Although survey results show 78% of pediatricians offer a prenatal visit, only 5-39% of first-time parents actually attend a visit." Increasing use of this visit has numerous potential benefits for both parental and child care. One RCT with urban low-income families showed a prenatal visit had positive effects on breastfeeding initiation, emergency services usage, and the relationship with the provider.

Traditionally, most prenatal classes focus on pregnancy and birth. The PRAMS VT Survey from 2012-2014 identified "a class for new parents (parenting, not childbirth)" as a requested resource. The prenatal pediatric visit provides an opportunity to connect with new families at a time that is less chaotic than immediately after birth. Specifically, families will leave this visit with familiarity with using THC for their child's care, education surrounding normal infant behavior in the first few weeks at home, and connecting families with services in the community.

Who: Expectant families in the early 3rd trimester who have identified THC to be their pediatric provider.

- 1. Establish relationship with family Assess obstetric prepatal and family history
- Provide infant care guidance
- 4. Evaluate psychosocial factors affecting family f
- 5. Share medical home routines for visits and pro

- 1. Checklist of topics to cover during visit
- 2. Patient education resources

### Expected Benefits:

- Early assessment of feeding plans and education
- Increased use of community resources, includi-
- Awareness of newborn screening and vaccinat 4. Establish expectations for THC care in the hose

### Office Logistics/Future Considerations:

- 1. Establishing communication flow between OB
- identified us as provider. 2. Billing: under mother's name. Recommendatic
- https://www.aap.org/en-us/Documents/pract
- 3. Creating a form or smart text within Centricity
- 4. Create flowsheet for postpartum mental healti 5. Good Beginnings is willing to hold prenatal pos

### Prenatal Pediatric Visit Checklist

\*Adapted from AAP Textbook of Pediatric Care 2nd Edition

### History

### Family constellation:

Family and Genetic History:

### Pregnancy history:

Current pregnancy concerns

### Prenatal screening and test results:

Environmental concerns (ex. exposure to smoking)

### Family resources and identified needs:

### Preparation

Specific parent questions and concerns?

### Do you have a hirth plan?

- Who will be home with you after birth?
- Normalize home visits: Many families find it helpful to have in-home help after the delivery. There are many resources in the community that offer these visits with little cost to you. Are you

### Experience with pregnancy and children:

- What kinds of previous experience with infants have you had?
- If siblings, how are they adjusting to pregnancy?
- Are you working? Do you plan to return to work after delivery?
- o Do you intend to enroll your child in daycare? If so, are you on any waiting lists?
- What kind of relationship did you have with your parents when you were growing up?
  - Do you plan to raise your child similarly?
  - Parent ACEs, if willing
- Have you attended any childbirth or parent classes?
  - o If yes, what has been helpful?
  - If no, list of local offered.
- What do you want to know more about?
- . Where do you find information on pregnancy and newborns?

### Newborn Education:

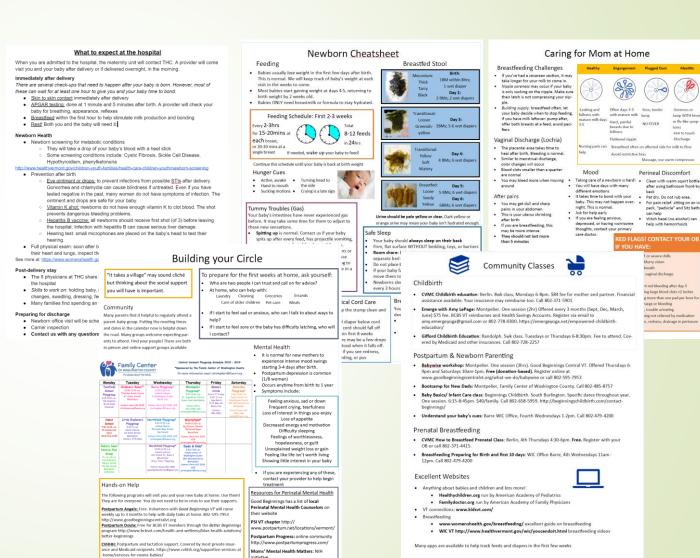
### What are your feeding goals for your child?

- Breastfeeding benefits
- · Starting breastfeeding in the hospital: skin-to-skin at delivery, feed within first hour
- Setting expectations: milk may take longer to come in after C-section
- What concerns do you have?
- Prenatal Breastfeeding classes available at CVMC
- In-home lactation support CVHHH

What are your thoughts on circumcision?

### Patient Education Materials

or flu-like symp



Good Regionings offers Raby Wise Scholarships to help cover the cost of Childhirth Education classes. Apply online at

http://www.goodbeginningscentralyt.org/what-we-do/babywise

## Results/Response Data

- Due to time constraints and patient availability, we were unable to implement this material in a visit with a family.
- Provider background handout and in-office checklist was presented at weekly medical meeting
  - Positive feedback regarding visit objectives and patient materials
  - Discussed importance of keeping patient education topics succinct during the visit
- Patient education materials shared with community providers for feedback

### Evaluation of effectiveness & limitations

- Proposed evaluations
  - Patient survey at 1 month well-child check
    - This would provide an opportunity to gather more topics families feel are lacking
  - Similar projects focusing on prenatal patient education have had "quiz" material and graded parents' performance.
- Limitations
  - THC has variable populations of newborns entering the office. It may take an extended period of time to gather enough feedback on the visit
  - The prenatal visit is time-limited, and given the volume of important information, it will be important to narrow down visit essentials.

# Future projects

- Outreach with community prenatal educators and OB offices to let patients know THC offers this visit
- Create smart text or form within EMR for visit type
- Host prenatal postpartum courses in coordination with community organizations at THC
- Develop patient resources to be distributed electronically

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### Consent

Thank you for agreeing to be interviewed. This project is a requirement for the Family Medicine clerkship. It will be stored on the Dana Library ScholarWorks website. Your name will be attached to your interview and you may be cited directly or indirectly in subsequent unpublished or published work. The interviewer affirms that he/she has explained the nature and purpose of this project. The interviewee affirms that he/she has consented to this interview. Yes \_\_x \_\_/ No \_\_\_\_ If not consenting as above: please add the interviewee names here for the department of Family Medicine information only. Name: \_\_\_\_ Katy Leffel & Ana Capone