

Presenter disclosures

Amy Mullenix

• The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:

No relationships to disclose

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Learning objectives

- and launch a comprehensive adolescent
- 2. Describe the components of a comprehensive preconception health curriculum for high school . students
- 3. Describe the tools that are useful in promoting preconception health with high school students

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Former identity

 The NC Folic Acid Campaign is a nationally recognized, awardwinning campaign created to improve infant and maternal health by promoting the benefits and consumption of folic





Campaign components

- Staff of 8
- Four regional coordinators around state provide:
 - Health care provider education Consumer outreach Peer health education
- Media and materials
- Dedicated Spanish-language campaign

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Initial high school outreach

- In 2007, one Regional Coordinator visited over 35 high schools in central NC
- Provided education on:

- Topics complement NC Standard Course of Study requirements
- Best fit in Family & Consumer Sciences courses

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Goals of pilot project

- · Expand presentation to include additional preconception health topics that fit our Campaign goals
- Test lesson plans with both teachers and students
- Revise lesson plans based on pilot testing
- Work with NC Department of Public Instruction to insert lesson plans into Standard Course of Study
- Ultimate Goal:
 - Consistent and sustained preconception health education by teachers in public high schools in North Carolina march () of dimes

Needs assessment

- 2. Survey administered to 24 Family & Consumer Science teachers who had received guest speaker "basic"
- 3. Focus groups with 20 teachers to introduce curriculum concept and gain feedback
- interviews with teachers to review draft versions of two lesson plans: Healthy Weight Matters and Reproductive Life Planning

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Results

- "This content is really needed for our students!"
- Lesson plans can be used in several classes: Parenting, Child Development, etc.
- Teachers were relatively unaware of the issue of poor birth outcomes in our state and were interested in the
- - Align content with existing objectives of the Family & Consumer Science curriculum for NC
- Content should not be too simple Use lots of charts, graphs and pictures Don't forget to make the classroom activities male-friendly

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Healthy Before Pregnancy

- Expanded existing presentation into 5 lesson plans that comprise the Healthy *Before* Pregnancy Curriculum

 - Healthy Weight Matters Preventable Factors That Can Lead to Poor Birth Outcomes
- Curriculum complements new NC legislation that allows comprehensive sex education in schools

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Curriculum overview

- Each lesson plan contains:
- Teacher's guide

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Student pilot sessions: Overview

- Campaign staff piloted 4 out of 5 lesson plans in classrooms
- 20 classes at 10 high schools
- Classes included: Family and Consumer Science, Parenting/Child Development, Foods, & Teen Living
- large group and small group classroom activities
- Students given pre & post tests to assess knowledge
- Discussions to solicit student feedback
- Written & verbal feedback from teachers

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Pathways to Poor Birth Outcomes (7 classes)

- lead to poor birth outcomes and health and
- Pre-Test: High knowledge deficiencies regarding...
- Post-Test: Dramatic improvement in these areas & overall knowledge increases; also highlighted a few areas for lesson improvement

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Healthy Weight Matters (4 classes)

- Goal: To help students understand that a female's personal weight in adolescence and young adulthood can have an impact on the health outcomes of future (or
- present) pregnancies Pre-Test: High knowledge deficiencies regarding...
- Relationship between income and obesity
 Relationship between childhood overweight and adult obesity
 Post-Test: Dramatic improvement in these areas & overall knowledge increases; also highlighted a few areas for lesson improvement

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Preventable Factors (5 classes)

- Goal: To help students understand health choices they make today can later impact the health of their future babies (smoking, drinking, medications, stress, nutrition and exercise)
- Pre-Test: High knowledge deficiencies regarding...
- overall knowledge increases; also highlighted a few areas for lesson improvement

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Reproductive Life Planning (4+ classes)

- Goal: To help students plan for future "intended" pregnancies as part of their overall life plan in hopes of improving birth outcomes
- Pre-Test: High knowledge deficiencies regarding... Teen pregnancy rates in NC Racial/ethnic disparities in teen pregnancy in NC
- Post-Test: Dramatic improvement in these areas & overall knowledge increases; also highlighted a few areas for lesson improvement

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Reproductive Life Planning

- Single most engaging lesson plan for students highly receptive to this concept
- Students liked and understood term "reproductive life planning
- Students worked hard on their own reproductive life plans/timeline



Student pilot key findings

- Students were highly receptive to all four lesson plans and eager for knowledge about these topics
- Lesson plans are engaging for males as well as females
 Materials are adaptable enough to accommodate different grade levels, both rural & urban schools, and both high & low resource schools
- Students surprised that pre-pregnancy health is related to birth outcomes and often reported that these lesson plans helped them connect the dots between now and later.
- "Adults always tell us what to do but they never tell us why. You told us why."

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Next steps

- NC Adolescent Pregnancy Prevention Coalition Teen Council is reviewing all lesson plans
- Revise lesson plans and materials based on pilot feedback
- Create supplements on:
- Contraception
- Sexually Transmitted Infections
- Adapt materials for other audiences including middle schools, community colleges and 4-year schools

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More next steps

- Seek funding for broad implementation
- Continue to form relationships with school officials and teachers across the state
- Partner with Department of Public Instruction to permanently insert these lesson plans into NC Standard Course of Study
- Evaluate short and long term outcomes

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Summary

- Successful high school presentations about folic acid and interest about preconception health led to development of a preconception health curriculum
- Extensive formative process with teachers informed what to include and how to include it
- Pilot testing with students allowed for further improvements to curriculum
- Ultimate Goal:
- Consistent and sustained preconception health education by teachers in public high schools in North Carolina

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Contact me

Thank you!!

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