Gestational Weight Gain Video Module Increases Patient Knowledge of Weight Gain in Pregnancy

Background

- Approximately 50% of women exceed pregnancy weight gain guidelines set by the National Academy of Medicine
- Excessive weight gain is associated with:
- Maternal hypertensive disorders & diabetes
- Preterm delivery & associated neonatal morbidity
- Delivery complications & need for cesarean delivery
- Postpartum weight retention
- Childhood obesity & macrosomia
- One third of women receive no counseling regarding gestational weight gain in pregnancy
- Potential barriers to weight gain counseling include:
- Lack of provider knowledge
- Discomfort with discussing the subject
- Lack of educational resources

Objectives

• Determine if implementation of a gestational weight gain video module will improve patient knowledge of weight gain guidelines set forth by the National Academy of Medicine

Study Design

- Prospective cohort study was performed from June to July 2019
- Pregnant women were enrolled from the university's Obstetrics & Gynecology outpatient office sites at time of routine prenatal visit



4 weeks

Repeat gestational weight gain knowledge questionnaire

- Maternal baseline characteristics were collected from the electronic medical record
- Questionnaires were graded and scored
- Paired t-test was used to determine the effectiveness of the gestational weight gain video on patient weight gain knowledge

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Results

- A total of 26 pregnant women were enrolled
- Women enrolled in the study were approximately 30 years old, and primarily of varied racial backgrounds, multiparous, and obese (Table 1)
- The mean gestational weight gain knowledge score before and after viewing the gestational weight gain module were 11.3 ± 2.1 and 12.5 ± 2.3 , respectively
- Viewing the gestational weight gain video module significantly improved women's baseline pregnancy weight gain knowledge (p<0.001) (Figure 1)

Maternal Characteristics			
Age, years	30.3±6.6		
Race White African American Asian Hispanic Other	9 (34.6) 2 (7.7) 4 (15.4) 8 (30.8) 3 (11.5)		
Multiparous	17 (65.4)		
BMI (kg/m²)	27±9.1		
Weight classification Underweight Normal Overweight Obese	1 (3.8) 9 (34.6) 6 (23.1) 10 (38.5)		

Table 1. Maternal characteristics of enrolled patients

Figure 2. Images from GWG Video Module.





Figure 1. Comparison of baseline and post-video gestational weight gain knowledge



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Conclusion

filization of a gestational weight gain video module improves atient knowledge of gestational weight gain guidelines gestational weight gain video module provides an teractive, convenient means to increase knowledge of dividual weight gain goals in pregnancy

Future Directions

etermine if utilization of a gestational weight gain video odule improves gestational weight gain adherence in regnancy

etermine if utilization of a gestational weight gain video odule improves maternal and neonatal pregnancy itcomes.

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