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Polycystic Ovarian Syndrome

Tameka Todd
Otterbein University, tameka.todd@otterbein.edu

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Introduction
The main goal of this project was to educate peers on the pathophysiology of a disease or disorder of choice. The topic to be discussed is Polycystic Ovary Syndrome (PCOS). This topic was chosen based on personal interest in women’s health issues.

PCOS is a metabolic disease affecting 5-10 percent of women of childbearing age (Morgan, 2013). Characteristics of PCOS include enlarged ovaries consisting of multiple small cysts surrounding the outer ovary, with unknown cause (Morgan, 2013). Leading to the ovaries producing an increased amount of androgen (male hormones) (Morgan, 2013).

Case Study
TT is a 28yo African American female with c/o irregular periods. Her LMP was 6 months prior and her periods have been irregular since menarche (Pannill, 2002). She mentioned a 35lb weight gain over 7 months. She is married and uses no form of contraception but does not desire to get pregnant at this time. Other complaints include excess hair growth on her face, chest and stomach, as well as acne. Menstrual irregularities have lead to experience low self esteem. The increase in hair growth has lead to her needing to shave every few days (Pannill, 2002).

FMHx: Obesity, HTN
FMHx: HTN, Type II DM
SxHx: Wisdom teeth removal, bunion surgery both feet
SocHx: Pt is a social drinker 2-3drinks/week. Denies tobacco use or recreational drugs.

Exercises 2-4x/week for at least 30min.
Diet is moderately healthy.
Meds: Prenatal vitamin, Fish oil, Sactrel
Allergies: NKDA
Labs: LH, Testosterone, Inulin/glucose.
WNL= FSH, cholesterol/triglycerides
(Pannill, 2002)
U/S: consistent with PCOS

Implications for Nursing Care
• Be supportive
• Assist patient in learning to manage sugar cravings
• Encourage pt to continue with exercise regimen
• Educate about anti-inflammatory diet and lifestyle

Conclusion
Pt has positive findings consistent with PCOS. She does not desire to get pregnant at this time but maintaining her on Metformin is the suggested preventative therapy to decrease the chances of the long term health issues related to PCOS, such as heart disease, Type II DM and possible endometrial cancer. Not only will Metformin assist in regulating her insulin levels and blood sugar but it will also stabilize her hormones and regulate her menstrual cycles. If the patient continues this plan of care, pregnancy in the future may not be as challenging when she is ready (Pannill, 2002).

Pathophysiology of Polycystic Ovary Syndrome

Underlying Pathophysiology
• Fertility issues
• Insulin resistance
• Type 2 diabetes
• Hyper-cholesterolemia
• Infrequent ovulation
• Heart disease
• Greater risk HTN
• Sleep apnea
• Fatty liver disease

References
Mehrabian, F. and Rezae, M. (2013). Sex Hormone binding globulin measurement before conception as a predictor of gestational diabetes in women with polycystic ovarian syndrome. Journal of Research In Medical Sciences, 18(8), 637-640

Tameka Todd, RN, BSN, CLC
Otterbein University, Westerville, Ohio

Figure 1.

Polycystic Ovarian Syndrome