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First degree daughters of women with polycystic ovary

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Currently there is no consensus of the metabolic derangement in the FDR (first degree relatives) of PCOS through puberty. Some data has indicated that Insulin resistance is developing only at late stages of puberty, while the others demonstrated IR at all stages of puberty. Such discrepancy can be due to methodology used for evaluation of IR and chosen controls. It is important to choose the control where PCOS, Diabetes Mellitus and hypertension are excluded from family history, because all these conditions predisposed to impaired Insulin sensitivity in childhood. Our study is the first to show early changes in insulin sensitivity in PCOS children by means of IVGTT testing. The data on adrenal and steroids is very heterogeneous in FDR-PCOS as well. Some studies have shown higher androgen levels were observed in the later stages of puberty in PCOS-FDR subjects compared to control daughters. While other studies have shown high androgen levels in all stages of puberty in FDR-PCOS. Our data did not demonstrate elevated androgen levels in early stages of puberty. Beta-cell dysfunction and deterioration of insulin sensitivity have been shown to occur in the daughters of PCOS-affected women prior to puberty and independently of body weight. Our findings confirm the hypothesis that insulin resistance are early hallmarks of risk for PCOS in the genetically vulnerable population and are present at or even prior to the onset of puberty or clinically apparent androgen excess. This supports the necessity of vigilance and early testing of FDR-PCOS-affected women, to provide the opportunity for both earlier diagnosis and therapeutic intervention to prevent the long-term morbidity inherent in this disorder.

Biography

Svetlana Ten, MD, a Director of Pediatric Endocrine Division and Fellowship Program at SUNY Downstate Medical Center and the Infants and Children's Hospital of Brooklyn at Maimonides Hospital. She fulfilled her fellowship in pediatric endocrinology from Cornell University in 2002, her fellowship in pediatric endocrinology in Akita, Japan from 1992 to 1993 and her fellowship in pediatric endocrinology at Moscow State University in 1989. She received her MD from Belarus-Minsk Medical University in 1984. She is the fellowship program director of SUNY Downstate Medical Center. Ten is a fellow of the American Academy of Pediatrics and a member of the Lawson Wilkins Pediatric Endocrine Society, the American Association of Clinical Endocrinologists, the American Medical Association and the Richmond County Medical Society. She has around 50 publications and interested in research in Diabetes, PCOS, Steroids.