

## Talk #2 (Clinical): “An unrestricted view on intrauterine growth restriction”

Yoel Sadovsky, M.D.

Professor of OBGYN and Cell Biology and Physiology  
Director, Division of Maternal Fetal Medicine and Ultrasound  
Washington University School of Medicine  
St Louis, Missouri, USA

The morbidity and mortality associated with intrauterine growth restriction (IUGR) depend on the etiology and severity of this heterogeneous, multifactorial disease. Overall, perinatal mortality is increased, with a higher incidence of fetal demise, intra-partum morbidity and a greater need for abdominal delivery. After delivery, IUGR is implicated in early neonatal morbidity and mortality, as well as developmental delay and neurobehavioral dysfunction during childhood. Epidemiological studies have suggested that inadequate embryonic growth is associated with metabolic disorders during adult life, including hypertension, coronary artery disease, hyperlipidemia and insulin resistance. Because there is no treatment that halts or reverses IUGR, determining the optimal timing for delivery of a growth-restricted fetus is one of the challenging areas in modern obstetrics. The risks of intrauterine fetal injury must be weighed against the risks of prematurity. Whereas monitoring of fetal heart rate and fetal activity provides evidence for fetal well-being, the incorporation of Doppler flow analysis of multiple fetal vessels refines some of the indications for delivery. These measurements provide indirect information on vessel resistance and compliance, as well as blood flow redistribution. Direct examination of placental gene expression may provide a new tool in determining fetal risk.

## 약 력

Yoel Sadowsky, M.D.

<b>Present Position:</b>	Director, Division of Maternal Fetal Medicine and Ultrasound Departments of Obstetrics and Gynecology, and Cell Biology and Physiology Washington University School of Medicine	
<b>Education:</b>	Medical School: Hebrew University - Hadassah Medical School Jerusalem, Israel (6 year program)	1978-1984
	B. Med. Sci.	1981
	M.D.	1985
<b>Post graduate:</b>	Rotating Internship: Hadassah Medical Center, Jerusalem.	1985-1986
	Physician on a Mobile ICU, Emergency Services, Jerusalem, Israel	1986
	Fellow, Center of Medical Education, Ben Gurion University, Israel	1985-1986
	Residency OBGYN, Washington University, St. Louis Missouri	1986-1990
	Administrative Chief Resident	1989-1990
	Fellowship Maternal Fetal Medicine, Department of OBGYN and Reproductive Sciences and Cardiovascular Research Institute, U. of California San Francisco, CA	1990-1992
	Post Doctoral Fellowship Metabolic Research Unit, and Cardiovascular Research Institute, University of California San Francisco, California	1992-1993
	Special training Leadership Development for Physicians in Academic Health Centers, Harvard School of Public Health	2001