

International Conference on

# HOSPITAL MANAGEMENT AND PATIENT SAFETY

&amp;

International Conference on

# REPRODUCTIVE MEDICINE & BIOLOGY

May 23-24, 2019

Las Vegas, USA

## Women cancer risk and polycystic ovary syndrome

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**P**olycystic ovary syndrome (PCOS) is a complex endocrine disorder characterized by oligomenorrhea, hyperandrogenism, and polycystic ovaries shape by ultrasound. It has an estimated prevalence of 4–21% in reproductive aged women depending on the diagnostic criteria and population examine. PCOS is associated with metabolic abnormalities including dyslipidemia, insulin resistance, and type II diabetes and is also one of the most common causes of reduced fertility. The altered metabolic and hormonal environment among women with PCOS may increase their risk of some types of cancer like: Endometrial cancer which explained by the absence of ovulation and producing estrogen, but not progesterone, which causes the endometrium (the lining of the uterus), to grow too much and undergo atypical cell changes. This is a pre-cancerous

condition called endometrial hyperplasia. If the thickened endometrium is not treated, over a long period of time it can develop into endometrial cancer, and ovarian cancer: as PCOS increased androgen exposure presence of androgen receptors on normal ovarian cells as well as benign and borderline tumors, and a doubling of androgen levels during pregnancy is associated with a 40–50% increased risk of borderline serous and invasive. Breast cancer: characteristics and consequences of PCOS have been previously associated with both increased and decreased risk of breast cancer. Increased levels of insulin in the blood can increase the risk of formation of breast cancer cells and other kinds of cancers might linked to PCOS medications that may influence cancer risk such as: oral contraceptives, metformin, ovulation-induction therapies.

### Biography

Dalida Omar Badla has completed MBBS from faculty of medicine of Damascus University-Syria in 1990 and received the certificate of specialist registration in OB/GYN from Ministry of Health of Syria in 1994. She obtained her Master degree (MD) from University Hospital of Aleppo-Syria in 1995. She also earned the diploma in minimal access surgery DMAS from World Association of Laparoscopic Surgeons in 2017. She has received the fellowship in assisted reproductive technology from International Association of Assisted Reproductive Technology at WLH, NCR Delhi in 2017. Currently, she is the Specialist of Obstetrics and Gynaecology at Danat Al Emarat Hospital for Women and Child Health in Abu Dhabi, UAE.

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