

Consequences of Superovulacion and ART Procedures

- **Complications of Superovulation**

OHSS, Thromboembolism, adnexal torsion

- **Complications of oocyte retrieval**

Infection, bleeding, bowel injury, anesthetic complications

- **Early pregnancy complications**

Multiple gestations, ectopic pregnancy. heterotopic pregnancy

Table 1 Major Complications Associated with Ovulation Induction

Complication	Incidence, %
OHSS:	
Moderate	3–6
Severe	0.1–2
Thromboembolism:	
Without OHSS	0.04–0.2
With OHSS	4
Adnexal torsion:	
Without OHSS	0.08
With OHSS	3

OHSS, ovarian hyperstimulation syndrome.

Table 2 Major Complications Associated with Transvaginal Oocyte Retrieval

Complication	Incidence, %
Infection	0.06–0.24
Bleeding	0.03–0.24
Bowel injury	0.04

Table 3 Incidence of Extrauterine Pregnancies in Spontaneous Versus in Vitro Fertilization Pregnancies

	% IVF Clinical Pregnancies	% Spontaneous Pregnancies
Ectopic pregnancy	2.2	1.3
Heterotopic pregnancy	0.5	0.07

IVF, in vitro fertilization.



Pathology International 2000; **50**: 549–552

Case Report

An autopsy case of ovarian hyperstimulation syndrome with massive pulmonary edema and pleural effusion

Shuho Semba, Takuya Moriya, Emile M Youssef and Hironobu Sasano

Department of Pathology and Tohoku University Hospital, Sendai, Japan

PREVENTION MEASURES OF OHSS

- **Primary prevention: target large populations with aim at avoiding the development of a specific disease**

Mild stimulation; GnRH antagonists

- **Secondary prevention: Early disease detection, thereby providing opportunities for interventions**

Coasting; Triggering ovulation with agonist;
cryopreservation all embryos.

- **Tertiary prevention : To reduce the negative impact of an already established disease reducing disease related complications**

Luteal phase GnRH analogues, Dopaminergic agents

Incidencia del SHO grave en HCP (1990-2011)

