Types of cysts

- Physiological cysts: mean diameter ≤3 cm
 - ovarian follicle
 - corpus luteum
- Functional cysts (can produce hormones):
 - follicular cysts of the ovary (oestrogen): >3 cm
 - corpus luteum cysts (progesterone)
 - theca lutein cyst: gestational trophoblastic disease
 - complications in functional cysts:
 - haemorrhage: see <u>haemorrhagic ovarian cyst</u>
 - enlargement
 - rupture
 - torsion

Other Cysts

- Multiple large ovarian cysts in <u>ovarian</u>
 <u>hyperstimulation syndrome</u>
- Post-menopausal cyst: <u>serous inclusion</u> <u>cysts of the ovary</u>
- olycystic ovaries
- ovarian torsion
- ovarian cystic neosplasms

Treatment

- Large (>3 cm) or symptomatic cysts may undergo surgical resection
- Smaller asymptomatic cysts are treated conservatively
- Risk of malignancy in septated ovarian cysts with no papillary projections or solid components are also considered low and are usually followed up on ultrasound

Follow-up guidelines

- As of late 2017, the most widely used guidelines is the 2010 consensus statement by the Society of Radiologists in Ultrasound.
- For simple ovarian cysts with no suspicious features on ultrasound, current follow-up guidelines are based on menopausal status and cyst size:

Reproductive Age

- ≤3 cm
 - normal physiologic finding; at the discretion of the interpreting physician whether or not to describe them in the imaging report
 - do not need follow-up
- >3 and ≤5 cm
 - should be described in the imaging report with a statement that they are almost certainly benign
 - do not need follow-up
- >5 and ≤7 cm
 - should be described in the imaging report with a statement that they are almost certainly benign
 - increased risk of ovarian torsion ⁴
 - yearly follow-up with ultrasound recommended
- >7 cm
 - may be difficult to assess completely with ultrasound and further imaging with MR or surgical evaluation should be considered

Post-menopausal women

≤1 cm

- are clinically inconsequential; at the discretion of the interpreting physician whether or not to describe them in the imaging report
- do not need follow-up

>1 and ≤7 cm

- should be described in the imaging report with a statement that they are almost certainly benign
- yearly follow-up, at least initially, with ultrasound recommended
- some practices may opt to increase the lower size threshold for followup from 1 cm to as high as 3 cm
- one may opt to continue follow-up annually or to decrease the frequency of follow-up once stability or decrease in size has been confirmed
- cysts in the larger end of this range should still generally be followed on a regular basis

>7 cm

 since these may be difficult to assess completely with ultrasound, further imaging with MRI or surgical evaluation should be considered