

To What Extent Covid 19 Can Contribute In Premature Ovarian Failure

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Introduction

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- Premature ovarian insufficiency is a clinical syndrome defined by loss of ovarian activity before the age of 40.
- The diagnosis is based on menstrual disturbance and biochemical confirmation, the diagnostic criteria is:
 - oligo/ammenorrhea for at least 4 months and
 - Elevated FSH > 25 IU/l on 2 occasions > 4 weeks apart
- It can occur with 1% of population
- 0.1% under age of 30y

•Premature ovarian failure increase Risks of;

- Osteoporosis
- CVS disease
- Dementia
- Depression
- Reduce life expectancy

•Most common presentation 2ry ammenorrhea, oligemenorrhea

Causes

Primary Causes:

- Chromosomal abnormalities
- Fsh receptor gene polymorphism
- And inhibit b mutation
- Enzyme deficiency
- Autoimmune diseases

Secondary Causes:

- Chemotherapy and radiotherapy
- Bilateral oophorectomy or surgical menopause
- Hysterectomy without oophorectomy
- Infection

Case summary &Case discussion

Case Summary

- 27y old pt , not known to have any previous medical , surgical problems, Nor family hx of similar conditions

- Presented with amenorrhea for 7 months after mild to moderate covid 19 infection

- Pt had regular cycle , before her documented covid 19 infection

- Her gonadotropin showed high Fsh 31 which was repeated after more than 4 wk and was found to be 29
- Her examination within normal
- Send her karyotype & Thyroid profile
- Some of autoimmune profile came within normal
- Her pelvic us within normal also .

Case discussion

- Can covid 19 cause premature ovarian failure
- Is there a specific finding that makes the pt more liable to premature ovarian failure after covid 19 infection.
- We need more researches to discover the long term effect of covid 19 on female reproductive system

Conclusion &Reference

Conclusion

- Young female not known to have Medical problems except Asthma on prn medication
- No surgical Nor family hx of similar conditions
- Suffered from premature ovarian failure around 6 to 7 month after covid 19 infection.

Reference

- Guideline on the management of premature ovarian insufficiency. Eshre.eu. Available from: <https://www.eshre.eu/Guidelines-and-Legal/Guidelines/Management-of-premature-ovarian-insufficiency>
- Pundir J, Coomarasamy A. Gynaecology: Evidence-based algorithms [Internet]. Cambridge, England: Cambridge University Press; 2016.