Dear students...

Remember these information very well for the future

1- The concept of “unopposed estrogen” and its role in carcinogenesis is important in:

Endometrial hyperplasia and endometrial cancer...so estrogen alone is risky while combining progesterone with estrogen decreases the risk

2- In breast cancer, the role is different from that in endometrium...In breast cancer: both estrogen + progesterone increase the risk...and even adding progesterone to estrogen for hormonal replacement therapy after menopause increases the risk more than estrogen alone...However, OCPs role as a risk factor for breast cancer is questionable...but you must ask about them when taking history from a patient with breast mass

...so in general: HRT (hormonal replacement therapy) is a risk factor for breast cancer, while the role of OCP (oral contraceptive pills) in causing breast cancer is questionable

3- In ovarian cancer, repeated ovulation (we are not talking about hormones, we are just talking about the repeated process of ovulation) induces changes in ovarian coelomic epithelium so increasing the risk of ovarian epithelial tumors...So preventing ovulation by using OCPs may be protective

...However!!!! recent data pointed to a role of estrogen (alone) in causing ovarian epithelial tumors...forget about this information at this level

GOOD LUCK