

Earning Doctorate for Researching Premature Ovarian Failure

Tuesday, 22 December 2015 WIB, By: Marwati




Premature ovarian failure is generally defined as the cessation of menstruation spontaneously before the age of 40. The cessation of menstruation is due to the failure of follicle maturation, or primordial follicles that cannot grow.

dr. Abdurahman Laqif, SpOG(K), Obstetrics and Gynecology specialist at the Dr. Moewardi Hospital Surakarta / Faculty of Medicine UNS Surakarta says premature ovarian failure is characterized by amenorrhea, increased levels of follicle stimulating hormone (FSH) > 4.4 IU / L and a permanent decrease in estrogen. Some remission may occur and it links to one of the causes, which is autoimmune.

"The incidence reaches 1 to 2 percent of women under 40 years of age," said Abdurahman at his open examination of doctoral program, Medical and Health Science Program, Faculty of Medicine UGM, Friday (18/12).

According to Abdurahman, premature ovarian failure should be treated as high level health problems in general because it impacts the quality of life for women. Not only it causes infertility but also damage to endothelial function and diastolic function significantly, thereby increasing the risk of cardiovascular disease, osteoporosis and degenerative diseases of the central nervous system.

"It also could lower the quality of life of women during pre- and post-menopausal," said Abdurahman while defending his dissertation, entitled Study of The Conditioned Media Therapy Punca Mesensimal Cell (MT-SPM) Amnion Membrane In Case of Premature Ovarian Failure.



Conducting an experimental research on Sprague-Dawley rats, Abdurahman concluded SPM conditioned media from amnion membranes produced by the method of hypoxia, promote folliculogenesis, especially in the formation of primordial and primary follicles in the ovaries and increase levels of estradiol in mice caused by VCD. VCD administration of 80 mg/ kg intraperitoneally for 30 days causing premature ovarian failure in Sprague-Dawley rats.

Another conclusion was, SPM conditioned media from amnion membranes produced by the method of hypoxia containing bFGF at 274.29 pg / ml, whereas the conditioned media SPM produced by the method of containing VEGF hypoxia at 2121.72 pg / ml and LIF amounted to 23.28 pg / ml. (Adelily)

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