

**RELATIONSHIP OF 25-HYDROXY-VITAMIN D<sub>3</sub> SERUM LEVELS WITH CYCLOOXYGENASE-2 IN ADENOMIOSIS PATIENTS**

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**Abstract**

**Introduction.** Adenomyosis is a condition in which endometrium is ectopically placed in the myometrium. The most frequent symptoms of adenomyosis is chronic pelvic pain. Pain is a sensoric stimuli that can be affected by COX-2. Some studies found that 25-Hidroxy-Vitamin D<sub>3</sub> serum level has the ability to affect COX-2 serum level and modulate pain sensation. The aim of this study is to analyze correlation between 25-Hidroxy-Vitamin D<sub>3</sub> and COX-2 serum level in patient with adenomyosis.

**Methods.** This was an analytical observational study. Subjects were women diagnosed with adenomyosis who met the study criteria (n = 35). Their 25-Hidroxy-Vitamin D<sub>3</sub> and COX-2 serum level were measured. The study was conducted at the Gynecologic Clinic of Obstetrics and Gynecology Department, Hasan Sadikin Hospital, Bandung Indonesia in June until November 2019.

**Results.** There was a significant correlation between 25-Hidroxy-Vitamin D<sub>3</sub> and COX-2 serum level in woman with adenomyosis.

**Conclusion.** 25-Hidroxy-Vitamin D<sub>3</sub> serum level can affect COX-2 serum level in woman with adenomyosis.



**Biography:**

Ari Irawan Romulya has completed her MD at the age of 23 years from jenderal Achmad Yani University, Bandung, Indonesia and currently undergo residency in Obstetric and Gynecology Department at Padjajaran University, Bandung, Indonesia

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