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## TO STUDY THE LEVEL OF IRISIN IN PATIENTS WITH PCOS

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### **Background –**

PCOS is a complex condition with reproductive, endocrine and metabolic characteristics. For its diagnosis, Rotterdam Criteria is used : 2 of 3 criteria should be present-

- Oligomenorrhea/ Amenorrhea
- Biochemical or clinical signs of hyperandrogenism
- Polycystic ovaries with >20 follicles in ovary or ovarian volume >10cc

**\*\*Irisin\*\*** is a newly discovered peptide hormone , a cleavage product of fibronectin type III domain 5

### **Aims & objectives-**

- To determine Serum Irisin levels in cases with PCOS and healthy controls
- To compare Serum Irisin levels in cases with PCOS and healthy controls

**Setting:** Dr BRAMH, Raipur , OPD patients

**Method-** Total 90 patients, out of this 30 Obese PCOS patients, 30 non-obese PCOS patients and 30 healthy controls. Participants 2ml fasting blood sample was taken for estimation of Irisin ,by commercially available ELISA kit . Anthropometric measurements taken and hormonal profile also evaluated.

**Results-** In our study Polycystic ovary syndrome women showed different body compositions compared with controls(non- PCOS). Serum irisin level of PCOS did not show significant difference compared with controls.Irisin maybe raised in obese PCOS patients as compared to non obese PCOS.

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