

### Question 27 – March 7

A 25 year old female with Crohn's disease is referred to you from a colleague who has ordered IBD serologies on her. She asks you which markers are associated with a higher risk of surgery in patients with Crohn's disease. You answer:

- A. Detectable IFX trough level 14 weeks after initiating therapy
- B. High titer antibody response to pANCA
- C. Low quartile sum score to Cbir1, OmpC, and ASCA
- D. Mutations in NOD2/CARD15

Answer: D

Mutations in NOD2/CARD15. NOD2/CARD 15 mutations and high sum scores of Cbir1, OmpC, and ASCA increase the risk for surgery in patients with Crohn's.

Reference:

Immunol Rev. 2014 Jul;260(1):249-60.