

Anti-TNF- α and Immunomodulatory Combination Therapy

- High serum levels of infliximab and adalimumab - \uparrow clinical remission^{1,2}
 - \uparrow Risk of anti-TNF- α failure with presence of anti-drug antibodies (ADAs)
- Combination therapy with anti-TNF- α and immunomodulatory therapy
 - Immunomodulatory therapy reduces formation of ADAs, improving anti-TNF- α short- and long-term efficacy³
 - Clinical trial results:
 - \uparrow Corticosteroid-free remission with INFLIXIMAB + AZATHIOPRINE than either alone in anti-TNF- α naïve patients, for both CD and UC^{4,5}
 - INFLIXIMAB + METHOTREXATE no more effective than infliximab monotherapy⁶
- Safety considerations³
 - Risk of infections or malignancies with combination therapy was similar to anti-TNF- α monotherapy in most clinical studies

Anti-TNF- α and Immunomodulatory Co-Therapy – Guideline Recommendations

- ACG and AGA guidelines recommend immunomodulatory co-therapy for patients with moderate-to-severe CD or UC receiving anti-TNF- α therapy¹⁻⁴
 - Strongest recommendation is for the specific combination of infliximab and a thiopurine¹⁻⁴
 - Combining vedolizumab or ustekinumab with thiopurines or methotrexate should also be considered^{2,3}
- Although both ACG and AGA consider combination therapy as a “strong recommendation,” the AGA guidelines for moderate-to-severe UC add:
 - “Patients, particularly those with less severe disease, who place higher value on the safety of biologic monotherapy and lower value on the efficacy of combination therapy may reasonably choose biologic monotherapy.”³

Anti-TNF- α and IL-23 Inhibitor

- Other combinations of therapies may also be more beneficial than monotherapy
- VEGA - proof-of-concept phase 2 trial
 - Treatment groups
 - Golimumab (anti-TNF- α) 200 mg IV
 - Guselkumab (IL-23) 100-200 mg SC
 - Combination therapy was statistically more effective for some clinical and endoscopic endpoints than either monotherapy, but not for all endpoints
 - Safety
 - Rates of serious infection were similar among the 3 groups
 - Small trial (N = 214) and combination therapy was limited to the 12-week induction period