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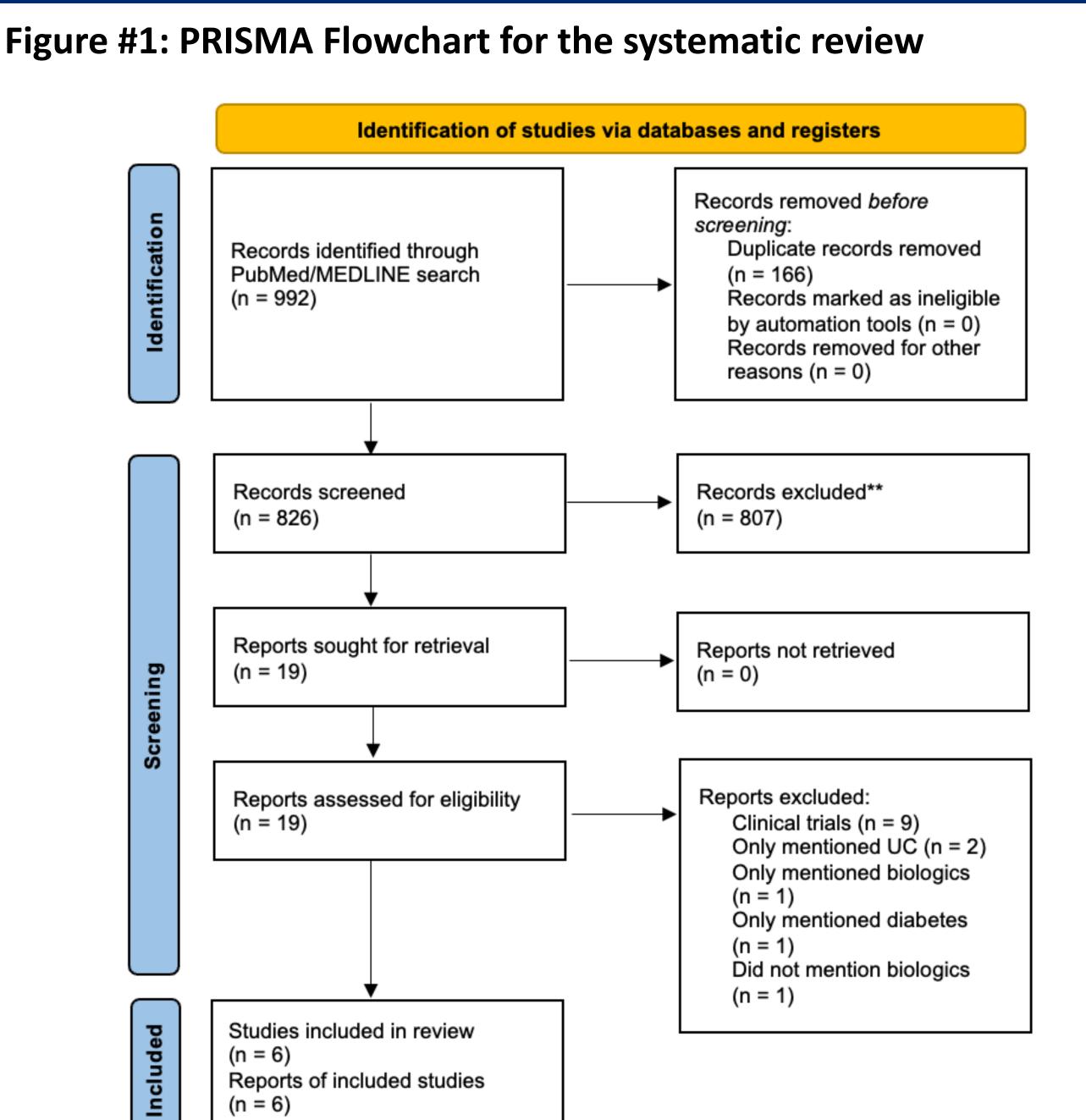
The Implications of Using Monoclonal Antibodies for Ulcerative Colitis in Adult Patients with Diabetes: A Scoping Review

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Background

- Ulcerative colitis (UC), a chronic inflammatory bowel disease (IBD) affecting the colon, is shown to have an increasing comorbidity with diabetes mellitus (DM)
- UC is often treated with corticosteroids and immunosuppressive agents, including monoclonal antibodies/biologics
- There is limited literature on the implications of using monoclonal antibodies for UC in adults with DM
- When considering management (e.g., medications, lifestyle, diet), it is imperative to understand how monoclonal antibodies specifically affect patients with UC and DM to optimize treatment and reduce complications

Methods



Objectives

 To investigate the implications of using monoclonal antibodies for UC in adults with DM

Results

Table #1: Summary of results

No. of Articles	Summary
4	Highlight the lack of information available to draw conclusions regarding biologic use in IBD + DM related to drug induced autoimmunity, comparing infection risks, outcomes, and risk of developing DM.
2	Present an increased risk of infection with IBD + DM that is not significantly affected with use of biologic treatments. One reporting for IBD + DM using immunomodulators, risk of infection is independently associated with corticosteroid use
5	Support a negative interplay in disease activity/severity and/or complications between concomitant UC and DM
5	Establish an increased risk of DM in IBD; 2 of the 5 articles additionally establish this risk in UC alone, for

IBD + DM is associated with significantly higher health care utilization, including IBD-related hospitalizations and gastrointestinal clinic visits compared to IBD only; however, this utilization in IBD + DM patients receiving biologic treatment was not significantly different compared to IBD + DM without biologic treatment

both Type 1 and Type 2 DM

UC + DM is associated with increased measures of UC activity, inflammation, and worse quality of life compared to UC alone; however, no significant difference in the use of biologics compared to UC/IBD alone

Conclusion

- UC/IBD + DM shows increased health care utilization and worsened disease than UC/IBD alone, but no significant difference in use of monoclonal antibody treatment
- IBD + DM carries an increased risk of infection that is not proven to be significantly altered with the use of monoclonal antibody medications
- There is a clear and documented gap in research on monoclonal antibody treatment in this population
- Given the above findings, further investigation of this topic is warranted to establish the implications of monoclonal antibody use in UC + DM and potentially reduce negative outcomes

References



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