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Peer Review

Review of: "Metformin as a Chemopreventive Agent for Colorectal Adenoma Recurrence: Evidence from Randomized Controlled Trials"

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The manuscript entitled “Metformin as a Chemopreventive Agent for Colorectal Adenoma Recurrence: Evidence from Randomized Controlled Trials” addresses a clinically important and increasingly relevant topic in colorectal cancer prevention. The authors should be commended for conducting a focused and methodologically sound systematic review using only randomized controlled trials, which strengthens the reliability of the presented findings. The study is well-organized, clearly written, and supported by an appropriate statistical approach. The pooled analysis demonstrating a significant reduction in adenoma recurrence with metformin provides meaningful preliminary evidence for its potential role in post-polypectomy chemoprevention.

Another notable strength of the manuscript is the balanced and thoughtful discussion of the findings in the context of current chemopreventive strategies. The authors effectively compare metformin with other available agents such as aspirin and NSAIDs while highlighting its favorable safety profile, affordability, and accessibility. The mechanistic explanation supporting metformin’s anticancer effects is also well-integrated and adds scientific depth to the review. Importantly, the limitations of the available evidence, including the small number of trials, short follow-up duration, and limited population diversity, are acknowledged appropriately without overstating the conclusions.

Overall, this manuscript represents a valuable contribution to the growing literature on colorectal cancer prevention. The topic is timely, the methodology is appropriate, and the conclusions are clinically relevant. The revised version demonstrates improved clarity and coherence throughout the manuscript,

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making it suitable for publication. I recommend acceptance after minor editorial revisions related mainly to formatting consistency and minor language refinement.

Declarations

Potential competing interests: No potential competing interests to declare.