

Comment on: [10 years of biologic use patterns in patients with inflammatory bowel disease: treatment persistence, switching and dose intensification – a nationwide population-based study]

Shahed Kamal  and Jonathan P. Segal 

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We read with interest the recently published study by Koo *et al.*,¹ which assessed the real-world effectiveness of different biological therapies and suggested an optimum treatment sequence. In this study, ustekinumab was shown to have superior persistence as the first-line treatment of Crohn's disease but this was associated with the highest degree of dose optimization. Importantly, when exploring the persistence of a medication, intricacies such as drug levels, antibody formation and the granularity regarding clinical, endoscopic and histological remission are lacking. This often means that persistence is a surrogate marker but not definitive of what defines thriving on a medication.

We commend the authors on this extensive study and provides us valuable insight into real world prescribing and outcomes related to it. Crucially, when considering biologic sequencing, finding a consensus on optimum sequencing remains challenging. The relative paucity of head-to-head data^{2,3} means we are often left with indirect comparisons such as network-meta-analysis⁴ and retrospective studies, with only few studies comparing different biologics together. Furthermore, variable endpoints and the lack of long-term extension data make sequencing biological therapies difficult.

Most importantly, as published data in regard to optimal sequencing lacks consensus, we believe the choice of the right sequence is much more nuanced involving many pre-defined patient

factors and patient preferences. Until we know more about mechanisms that drive an individual's inflammatory process, being prescriptive about the optimum drug sequence we believe is still a long way off.

Declarations

Ethics approval and consent to participate

Not applicable.

Consent for publication

Not applicable.

Author contributions

Shahed Kamal: Writing – original draft.

Jonathan P. Segal: Conceptualization; Writing – review & editing.

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Competing interests

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Availability of data and materials

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Correspondence to:

Shahed Kamal
Department of
Gastroenterology,
Northern Health, 185
Cooper Street, Epping,
Melbourne, VIC 3076,
Australia
drshahedk@gmail.com

Jonathan P. Segal
Department of
Gastroenterology, Royal
Melbourne Hospital,
Parkville, Melbourne, VIC,
Australia

Department of Medicine,
The University of
Melbourne, Parkville,
Melbourne, VIC, Australia

ORCID iDs

Shahed Kamal  <https://orcid.org/0000-0002-9066-4905>

Jonathan P. Segal  <https://orcid.org/0000-0002-9668-0316>

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