

Nancy Histologic Index and Robarts Histopathology Index (RHI)

Nancy Histologic Index

Developed and validated to assess histological disease activity in ulcerative colitis (UC), the Nancy Histologic Index grades ulceration, acute inflammatory infiltrate, and chronic inflammatory infiltrate on a scale of 0 to 4—with 0 indicating the absence of significant histological disease activity and 4 indicating severely active disease. The final score is determined by the worst feature present.

Robarts Histopathology Index (RHI)

Also developed and validated to assess histological disease activity in UC, the RHI uses a scale of 0 to 3 to grade chronic inflammatory infiltrate, lamina propria neutrophils, neutrophils in the epithelium, and erosion or ulceration. The score, ranging from 0 to 33, is calculated as follows:

$$\begin{aligned} \text{RHI} = & 1 \times \text{chronic inflammatory cell infiltrate} \\ & + 2 \times \text{lamina propria neutrophils} \\ & + 3 \times \text{neutrophils in epithelium} \\ & + 5 \times \text{erosions or ulceration} \end{aligned}$$

References

- Marchal-Bressenot A, Salleron J, Boulagnon-Rombi C, et al. Development and validation of the Nancy histological index for UC. *Gut*. 2017;66:43-49.
- Pai RK, Jairath V, Vande Casteele N, et al. The emerging role of histologic disease activity assessment in ulcerative colitis. *Gastrointest Endosc*. 2018;88:887-898.