

**Suppl. Table 1.** Truelove-Witts index for clinical assessment of the UC activity (23)

|                   | <b>Mild</b> | <b>Moderate</b> | <b>Severe</b> |
|-------------------|-------------|-----------------|---------------|
| Bloody stools per | < 4         | > 4             | > 6           |
| Pulse (count/min) | < 90        | < 90            | > 90          |
| Temp (°C)         | < 37.5      | < 37.8          | > 37.8        |
| Hb (g/L)          | > 115       | >105            | < 105         |
| ESR (mm/3.6 ks)   | < 20        | < 30            | > 30          |

UC = ulcerative colitis. Hb = hemoglobin. ESR = erythrocyte sedimentation rate.

**Suppl. Table 2.** Ulcerative colitis endoscopic index of severity (UCEIS) for the endoscopic assessment of the UC activity (Ref.23)

| <b>Descriptor<br/>(score most<br/>severe lesions)</b> | <b>Definition</b>                                                                                                                     |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Vascular pattern                                      | 0 normal vascular pattern with arborisations of capillaries clearly defined                                                           |
|                                                       | 1 patchy obliteration of vascular pattern                                                                                             |
|                                                       | 2 complete obliteration of vascular pattern                                                                                           |
| Bleeding                                              | 0 no visible blood                                                                                                                    |
|                                                       | 1 some spots or streaks of coagulated blood on surface of the mucosa, which can be washed away                                        |
|                                                       | 2 some free liquid blood in the lumen                                                                                                 |
|                                                       | 3 frank blood in the lumen or visible oozing from mucosa after washing intraluminal blood, or visible oozing from haemorrhagic mucosa |
| Erosions and ulcer                                    | 0 normal mucosa, no visible erosions or ulcers                                                                                        |
|                                                       | 1 small defects in the mucosa ( $\leq 5$ mm), white or yellow, white edge                                                             |
|                                                       | 2 large defect in the mucosa ( $> 5$ mm), discrete fibrin covered, remain superficial                                                 |
|                                                       | 3 deeper excavated defects in the mucosa, with a raised edge                                                                          |

UC = ulcerative colitis. 0-1 remission. 2-4 mild. 5-6 moderate. 7-8 severe (Ref.24).

**Suppl. Table 3.** Mayo endoscopic sub score (MES) for the endoscopic assessment of the UC activity (Ref.23)

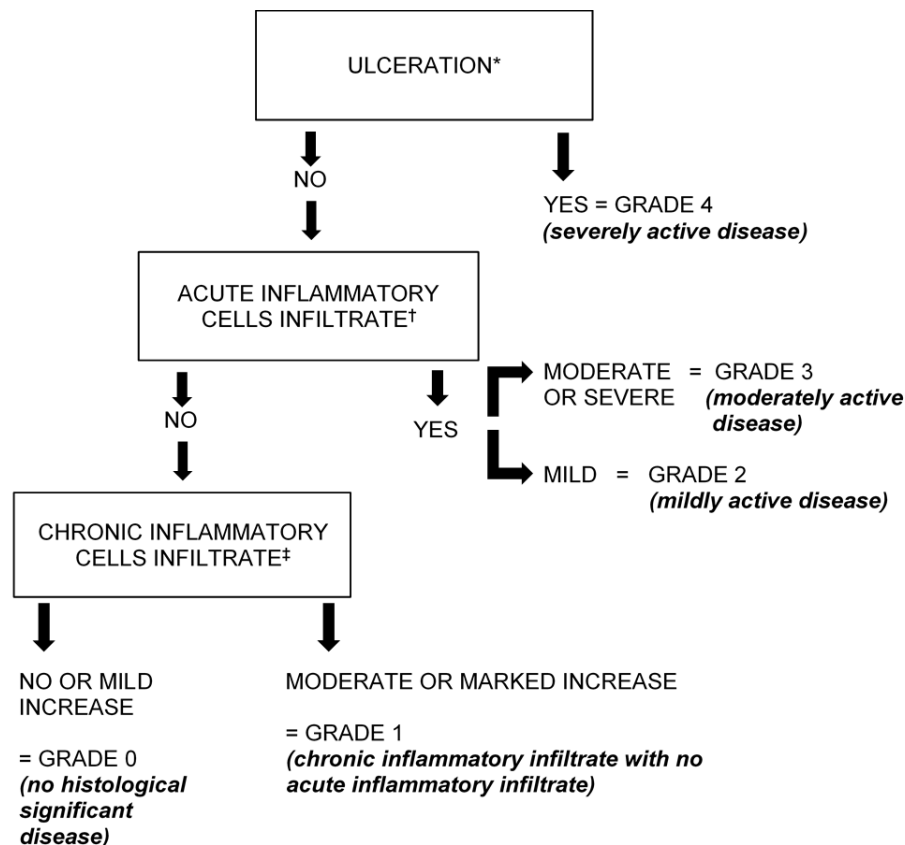
| Mucosal appearance at endoscopy                                      | Definition                   |
|----------------------------------------------------------------------|------------------------------|
| Normal mucosa                                                        | 0 normal or inactive disease |
| Erythema<br>decreased vascular pattern                               | 1 mild disease               |
| Marked erythema<br>Absent vascular pattern<br>Friability<br>Erosions | 2 moderate disease           |
| Spontaneous bleeding<br>Diffuse ulcerations                          | 3 severe disease             |

UC = ulcerative colitis.

**Suppl. Table 4.** Analytical specification for MMP3, MMP9 and DPP4/CD26 ELISA tests provided by manufacturer

|                                | MMP3                                            | MMP9              | DPP4/CD26         |
|--------------------------------|-------------------------------------------------|-------------------|-------------------|
| Linearity range (ng/mL)        | 0.03-2.00                                       | 0.13-8.00         | 0.31-20.00        |
| Precision                      |                                                 |                   |                   |
|                                | 8.6 at 0.06 ng/mL                               | 5.2 at 3.88 ng/mL | 2.4 at 9.78 ng/mL |
| Intra-assay (CV %)             | 8.3 at 0.25 ng/mL                               | 2.7 at 0.96 ng/mL | 1.3 at 2.43 ng/mL |
|                                | 4.6 at 0.95 ng/mL                               | 2.1 at 0.25 ng/mL | 2.5 at 0.62 ng/mL |
|                                | 9.2 at 0.06 ng/mL                               | 3.6 at 3.83 ng/mL | 2.4 at 9.70 ng/mL |
| Inter-assay (CV %)             | 6.2 at 0.20 ng/mL                               | 3.1 at 0.92 ng/mL | 2.8 at 2.42 ng/mL |
|                                | 6.5 at 0.87 ng/mL                               | 3.5 at 0.24 ng/mL | 3.0 at 0.59 ng/mL |
| Analytical sensitivity (ng/mL) | 0.018                                           | 0.017             | 0.030             |
| Analytical specificity         | No cross-reactivity or interference at 50 ng/mL |                   |                   |

MMP - matrix metalloproteinase. DPP4/CD26 - dipeptidyl peptidase-4/cluster of differentiation 26. CV - coefficient of variation.



**Suppl. Figure 1.** Nancy histological index: algorithm for the classification of histological disease activity for UC (Ref. 25)

\*No = no ulceration. Yes = loss of colonic crypts replaced with immature granulation tissue (defined as disorganised blood vessels with extravasated neutrophils) or the presence of fibrinopurulent exudate. †Acute inflammatory cells infiltrate is defined by the presence of neutrophils in lamina propria and/or epithelial cells. No = no neutrophils on biopsy specimen. Mild = few or rare neutrophils in lamina propria or in the epithelium that are difficult to see. Moderate or severe=presence of multiple clusters of neutrophils in lamina propria and/or epithelium that are easily apparent. ‡Chronic inflammatory cells infiltrate is defined by the presence of lymphocytes and/or plasmocytes and/or eosinophils in lamina propria. No or mild increase = no or mild increase in chronic inflammatory cells number. Moderate or marked increase = presence of an increase in chronic inflammatory cells number that are easily apparent.