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| **Supplementary Table 1. Comparison of Histopathology Features Using the Collins Scale in Eosinophilic Esophagitis (EoE) Patients** |
|  | **Distal** | **Proximal** |
|  | **Positive IgG4 Staining (n=14)** | **Negative IgG4 Staining (n=17)** | **P value** | **Positive IgG4 Staining (n=13)** | **Negative IgG4 Staining (n=18)** | **P value** |
| **Grade scores****median (range)** |  |
| Eosinophilic inflammation | 2 (1-3) | 2 (0-3) | 0.760 | 3 (2-3) | 2 (1-3) | 0.121 |
| Basal zone hyperplasia | 2 (1-3) | 1 (0-3) | 0.056 | 2 (0-3) | 1 (0-3) | 0.003 |
| Eosinophil abscesses | 0 (0-1) | 0 (0-2) | 0.595 | 1 (0-3) | 0 (0-3) | 0.208 |
| Eosinophil surface layering | 0 (0-2) | 0 (0-2) | 1.000 | 0 (0-3) | 0 (0-2) | 0.872 |
| Dilated intercellular spaces | 3 (1-3) | 3 (0-3) | 0.179 | 3 (1-3) | 2.5 (0-3) | 0.020 |
| Surface epithelial alteration | 0 (0-1) | 0 (0-1) | 0.889 | 0 (0-1) | 0 (0-0) | 0.239 |
| Dyskeratotic epithelial cells | 0 (0-0) | 0 (0-0) | - | 0 (0-0) | 0 (0-0) | - |
| Lamina propria fibrosis\* | 3 (0-3) | 2.5 (0-3) | 0.053 | 3 (3-3) | 3 (0-3) | 0.040 |
| Composite score | 11 (6-13) | 7 (0-13) | 0.088 | 12 (7-17) | 7 (2-14) | 0.002 |
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| **Stage scores****median (range)** |  |
| Eosinophilic inflammation | 2 (1-3) | 2 (0-3) | 0.630 | 3 (1-3) | 2 (1-3) | 0.089 |
| Basal zone hyperplasia | 3 (1-3) | 1 (0-3) | 0.005 | 2 (0-3) | 1 (0-3) | 0.015 |
| Eosinophil abscesses | 0 (0-2) | 0 (0-3) | 0.538 | 1 (0-2) | 0 (0-3) | 0.241 |
| Eosinophil surface layering | 0 (0-2) | 0 (0-3) | 0.873 | 0 (0-3) | 0 (0-3) | 0.982 |
| Dilated intercellular spaces | 3 (1-3) | 3 (0-3) | 0.256 | 3 (1-3) | 2 (0-3) | 0.182 |
| Surface epithelial alteration | 0 (0-1) | 0 (0-1) | 0.889 | 0 (0-1) | 0 (0-0) | 0.239 |
| Dyskeratotic epithelial cells | 0 (0-0) | 0 (0-0) | - | 0 (0-0) | 0 (0-0) | - |
| Lamina propria fibrosis\* | 3 (0-3) | 2 (0-3) | 0.396 | 3 (2-3) | 3 (0-3) | 0.260 |
| Composite score | 10 (6-14) | 8 (0-14) | 0.135 | 10 (5-17) | 7 (1-15) | 0.021 |

\*Lamina propria was present for assessment in a subset of distal (12 of 14 with positive IgG4 staining and 8 of 17 with negative IgG4 staining) and proximal (10 of 13 with positive IgG4 staining and 8 of 18 with negative IgG4 staining) esophageal specimens.