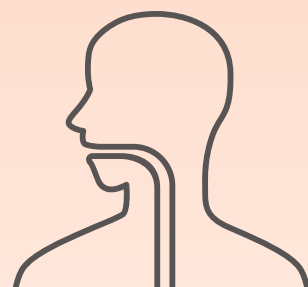


Eosinophilic Esophagitis Histology Scoring System (EoEHSS)

What is the EoEHSS?

The EoEHSS is a scoring system that can help recognize the presence of and evaluate both the severity and extent (the amount of diseased tissue) of eosinophilic esophagitis (EoE). The EoEHSS can **help monitor EoE over time**.¹

An EoEHSS score is given by looking at a **biopsy** taken during an endoscopy. The score is based on observation of the appearance of the biopsy under a microscope. The EoEHSS is used in EoE clinical trials to help monitor



What is EoE?

EoE is a chronic, progressive, immune-mediated disease that affects the esophagus.²

In patients with EoE, eosinophils – which are a type of white blood cell – build up in the lining of the esophagus, resulting in dysfunction, inflammation and tissue damage.²

Learn more [here](#).

EoEHSS Components

The EoEHSS rates the **severity** (grade) and **extent** (stage) of 8 different aspects of the appearance of biopsied tissue taken from the esophagus.¹

Esophageal inflammation (EI)

The number of eosinophils (a type of white blood cell) that are present
Also used in the diagnosis of EoE



Basal zone hyperplasia (BZH)

The thickness of the basal zone (part of the lining of the esophagus)



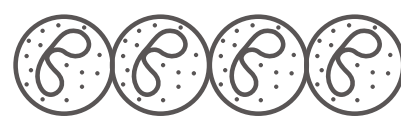
Eosinophil abscess (EA)

The presence of abscesses, or pockets of pus



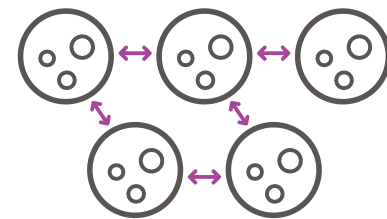
Eosinophil surface layering (ESL)

An abnormal arrangement of eosinophils into lines



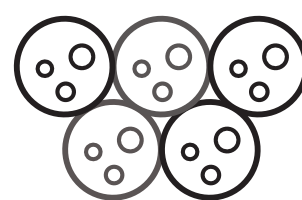
Dilated intercellular spaces (DIS)

Areas of space between individual cells (cells should normally be closely packed)



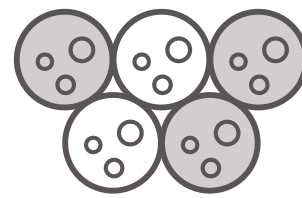
Surface epithelial alteration (SEA)

Changes in how the cells pick up the dye used to stain and see them under a microscope, indicating broken-down cells and cell debris



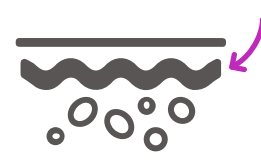
Dyskeratotic epithelial cells (DEC)

Changes in how the inside of the cells pick up the dye, indicating the cells may not be functioning as they should



Lamina propria fibrosis (LPF)

Thickening of the connective tissue fibers in the deepest part of the biopsy, which can lead to stricture formation and increased risk of food impaction

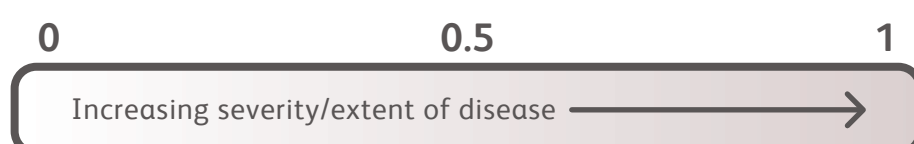


Scoring

Both grade (severity) and stage (extent) are separately given a score from 0 to 3 for each of the 8 components. The total score is then divided by the maximum possible score.

$$\frac{\text{Sum of assigned scores}}{\text{Max possible score}} = \text{EoEHSS rating}$$

A grade score closer to “1” indicates more severe EoE. Similarly, a stage score closer to “1” indicates more extensive disease.



Bristol Myers Squibb is committed to increasing awareness and understanding of EoE, including the important methods and tools used in clinical trials and by healthcare providers to help recognize and monitor the condition over time.

1. Collins MH, Martin LJ, Alexander ES, et al. Newly developed and validated eosinophilic esophagitis histology scoring system and evidence that it outperforms peak eosinophil count for disease diagnosis and monitoring. *Dis Esophagus*. 2016;30(3):1-8. doi:10.1111/dote.12470

2. American Academy of Allergy, Asthma & Immunology. Eosinophilic esophagitis. Published online February 2020. <https://www.aaaai.org/Conditions-Treatments/Related-Conditions/eosinophilic-esophagitis>