

Hounsfield unit

The Hounsfield scale named after Sir Godfrey Hounsfield, is a quantitative scale for describing radiodensity. It is frequently used in CT scans, where its value is also termed CT number.

Insufficient intraoperative distraction and low [Hounsfield unit](#) (HU) value showed a strong relationship with postoperative intervertebral height reduction following single stand-alone [cervical PEEK cage](#) ACDF ¹⁾.

An early elevated white blood cell (WBC) count and HU value could independently predict delayed cerebral ischemia (DCI) occurrence between 4 and 30 days after aneurysmal subarachnoid hemorrhage. Furthermore, WBC count was positively correlated with HU value, and the combined WBC-HU demonstrated a superior prediction ability for DCI development compared with the individual indicator ²⁾.

¹⁾

Lee JS, Son DW, Lee SH, Ki SS, Lee SW, Song GS, Woo JB, Kim YH. The Effect of Hounsfield Unit Value with Conventional Computed Tomography and Intraoperative Distraction on Postoperative Intervertebral Height Reduction in Patients Following Stand-Alone Anterior Cervical Discectomy and Fusion. J Korean Neurosurg Soc. 2021 Dec 29. doi: 10.3340/jkns.2021.0131. Epub ahead of print. PMID: 34963207.

²⁾

Hu P, Yang X, Li Y, Deng G, Xu Y, Ye L, Qi Y, Zong Z, Chen Q. Predictive effects of admission white blood cell counts and hounsfield unit values on delayed cerebral ischemia after aneurysmal subarachnoid hemorrhage. Clin Neurol Neurosurg. 2021 Dec 7;212:107087. doi: 10.1016/j.clineuro.2021.107087. Epub ahead of print. PMID: 34929583.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=hounsfield_unit

Last update: **2024/06/07 02:54**

