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Match Overview

Retrospective Study

Apparent-diffusion-coefficient-based histogram analysis differentiates histological subtypes of periampullary adenocarcinoma

Lu JY *et al.* ADC histogram analysis differentiates periampullary adenocarcinoma

Abstract

BACKGROUND

For periampullary adenocarcinoma, the histological subtype is a better prognostic predictor than the site of tumor origin. Intestinal-type periampullary adenocarcinoma (IPAC) is reported to have a better prognosis than the pancreatobiliary-type periampullary adenocarcinoma (PPAC). However, the classification of histological subtypes is difficult to determine before surgery.

Apparent diffusion coefficient (ADC) histogram analysis is a noninvasive, non-contrast enhanced method with high reproducibility that could help differentiate the two subtypes.

AIM

Apparent-diffusion-coefficient-based histogram analysis differentiates histological 🔍

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Assessment of tumor heterogeneity: Differentiation of ...
https://www.sciencedirect.com/science/article/pii/S0720048X19301238
In conclusion, the **whole-lesion CT histogram analysis** may act as promising, non-invasive diagnostic tool to **differentiate** the **periampullary tumors** (**DAC**, PDAC and GIST), but further studies are entailed before introduction of **histogram analysis** into the clinical workflow of the **periampullary neoplasms**.

Author: Jingyu Lu, Daoyu Hu, Hao Tang, Xue...　　**Publish Year:** 2019

Histogram Analysis of Apparent Diffusion Coefficient Map ...
https://www.researchgate.net/publication/229434883_**Histogram_Analysis**_of_Apparent...
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Correlation of Histogram Analysis of Apparent Diffusion ...
https://www.ajronline.org/doi/10.2214/AJR.14.13350
In the patient group, **histogram parameters** were compared between **subgroups of different histologic types**, grades, LVSI, stages, **tumor sizes**, and ages, as well as between women with **cervical cancer** staged as FIGO IB in the patient group and those in the control group.

Cited by: 30　　**Author:** Yuning Lin, Hui Li, Ziqian Chen, Ping Ni, ...
Publish Year: 2015

Whole-Lesion Histogram Analysis of Apparent Diffusion ...
https://www.researchgate.net/publication/288837145_Whole-Lesion_**Histogram_Analysis**_of...
Histogram analysis of apparent diffusion coefficient at 3.0t: **Correlation** with **prognostic factors** and **subtypes** of invasive ductal carcinoma: **Histogram Analysis of ADC Values** in IDC

Histogram analysis of apparent diffusion coefficient maps ...
https://link.springer.com/article/10.1007/s00405-018-5052-y ▾
Parotid gland tumors contain a heterogeneous group of benign and **malignant subtypes** [1]. **Accurate differentiation** between malignancy and benignity is important for the determination of therapeutic strategy and prediction of disease prognosis [2].

Apparent-diffusion-coefficient-based histogram analysis differentiates histologica   🔍

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Assessment of tumor heterogeneity: Differentiation of ...
https://www.sciencedirect.com/science/article/pii/S0720048X19301238

The comparatively thin-sliced reconstructed images could provide better viewing of **different periampullary** neoplasms. 2.3. Quantitative **histogram analysis**. Patient-identifying information was removed from each CT image for the 74 patients studied for **histogram analysis**, which is a first-order texture **analysis** by using **histogram** methods without ...

Author: Jingyu Lu, Daoyu Hu, Hao Tang, Xuemei...   **Publish Year:** 2019

Validation of histomolecular classification utilizing ...
https://www.nature.com/articles/bjc2015172

May 19, 2015 · Kimura W, Futakawa N, Yamagata S, Wada Y, Kuroda A, Muto T, Esaki Y (1994) **Different** clinicopathologic findings in two **histologic** types of **carcinoma** of papilla of Vater. Jpn J Cancer Res 85 : ...

Cited by: 21   **Author:** A. Schueneman, M. Goggins, J. Ensor, B. S...
Publish Year: 2015

Correlation of Histogram Analysis of Apparent Diffusion ...
https://www.ajronline.org/doi/10.2214/AJR.14.13350

Recently, a study on ADC **histogram analysis** of stage I cervical cancer conducted by Downey et al. showed that the quantitative **histogram analysis** of an ADC map helped to characterize the **histologic** features of cervical cancer that are indicative of poor prognosis. Further research is required for evaluating the use of ADC **histogram analysis** in ...

Cited by: 29   **Author:** Yuning Lin, Hui Li, Ziqian Chen, Ping Ni, Qu...
Publish Year: 2015

Histogram Analysis of Apparent Diffusion Coefficient Map ...
https://www.researchgate.net/publication/229434883_Histogram_Analysis_of_Apparent...

Histogram Analysis of Apparent **Diffusion Coefficient** Map of Standard and High B-value Diffusion MR Imaging in Head and Neck Squamous Cell **Carcinoma** Article in Academic radiology 19(10):1233-40 ...

Histogram analysis of apparent diffusion coefficient maps ...
https://link.springer.com/article/10.1007/s00405-018-5052-y ▾

Histogram analysis of apparent diffusion coefficient maps for differentiating malignant from benign parotid gland tumors ... (2009) Diffusion-weighted echo-planar MR imaging of primary parotid gland tumors: is a prediction of **different histologic subtypes** possible? AJNR Am J ... **histogram** apparent diffusion coefficient and R2* for ...