Evaluation of Tumor Infiltrating Lymphocytes (TILs) in Lung Adenocarcinoma

Guidelines for TILs assessment from “International Immuno-Oncology Biomarker Working Group”

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TILs within the borders of the invasive tumors are evaluated

The invasive edge is included in the evaluation, but not reported separately.
Define area for TILs evaluation

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Immune infiltrates outside of the tumor borders are not included
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Areas with pure intra-alveolar tumor cell nests (‘aerogenic spread’; no desmoplastic reaction) or with pure lepidic growth pattern (no desmoplastic reaction) are not included
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Define area for TILs evaluation

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Exlude this area (the presence of some ‘aerogenic spread’ (*) does not make it part of the tumor area)
Define area for TILs evaluation

Include TILs evaluation in stroma pertaining to fibro-vascular cores of papillary structures
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In cases with (partial) lepidic or intra-alveolar growth of the carcinoma, do not include inflammatory cells in intraalveolar spaces (often mixed with alveolar macrophages)

Include this area

Do not include this area
Define area for TILs evaluation

- Areas of necrosis or fibrosis are not included in the evaluation

Include TILs in this area = stromal TILs

Do not include TIL in this area

Include TILs in this area = stromal TILs
Determine the localization of inflammatory infiltrate
Determine type of inflammatory infiltrate

Include only mononuclear infiltrate (lymphocytes & plasma cells)

Do not include granulocytic infiltrate in areas of tumor necrosis
Determine type of inflammatory infiltrate

Include only mononuclear infiltrate (lymphocytes & plasma cells)

Do not include granulocytic infiltrate in areas of tumor necrosis