Evaluation of Tumor Infiltrating Lymphocytes (TILs) in Metastatic Tumor Deposits:

Some breast carcinoma examples

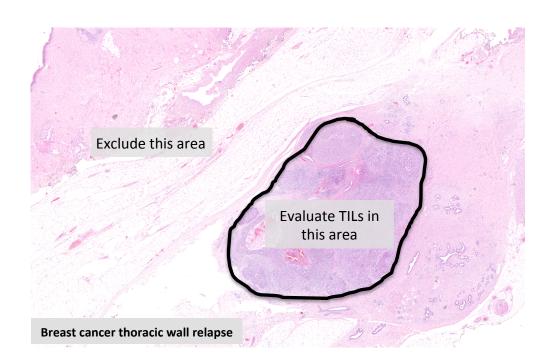
Guidelines for TILs assessment from the "International Immuno-Oncology Biomarker Working Group"

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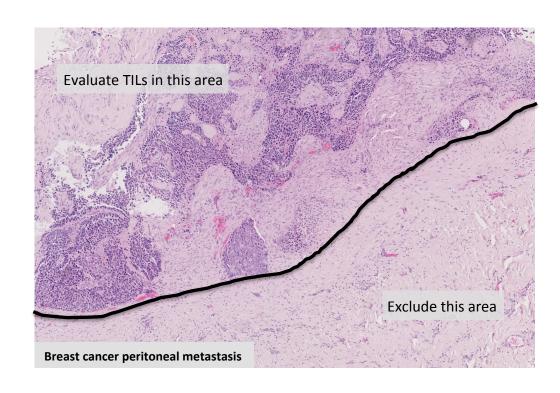
- TILs within the borders of the metastasis are evaluated
- The invasive edge of the metastasis is included in the evaluation, but not reported separately
- Immune infiltrates outside of the borders of the metastases (in the pre-existing tissue)
 are not included



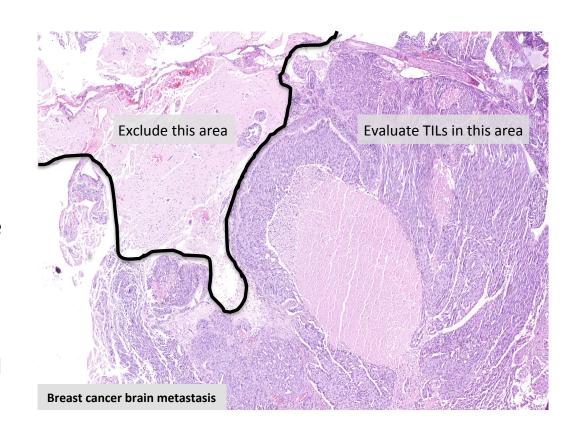
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- In some metastases the tumor border can be sharply delineated



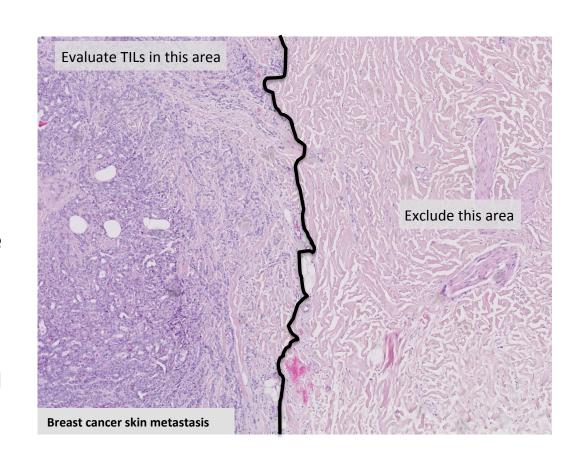
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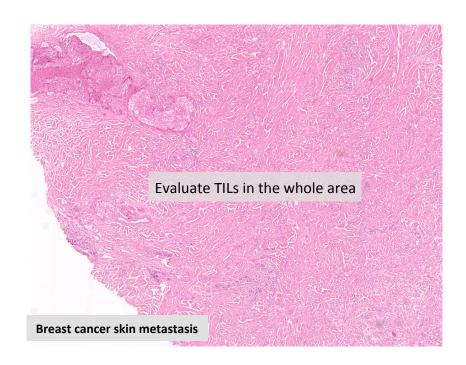
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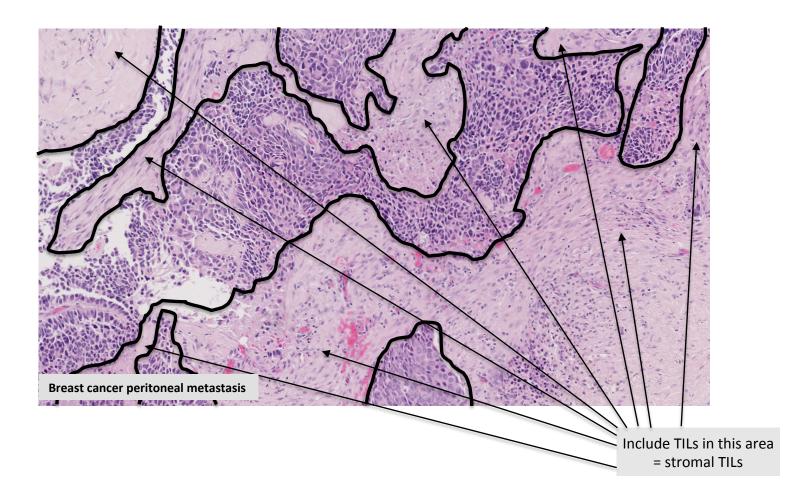
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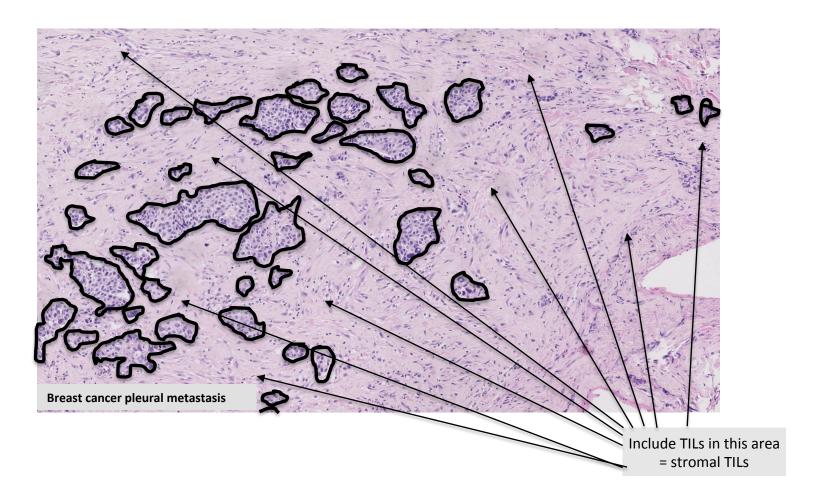
- TILs within the borders of the metastasis are evaluated
- Due to the extremely infiltrative ('lobular-like') growth pattern of some metastases, with only minimal disturbance of the preexisting skin histology, the tumor border is difficult to discern.



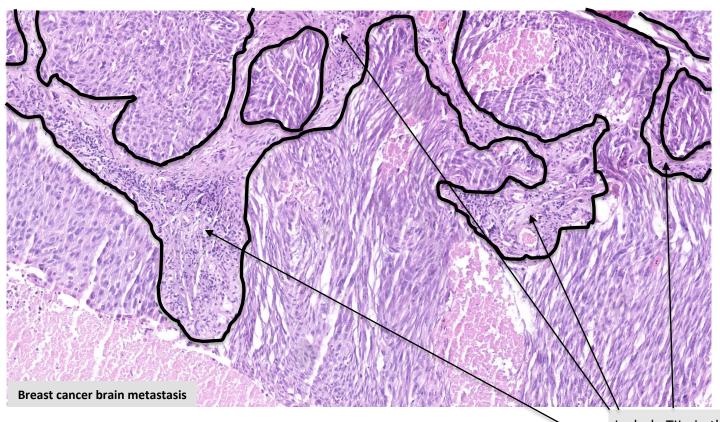
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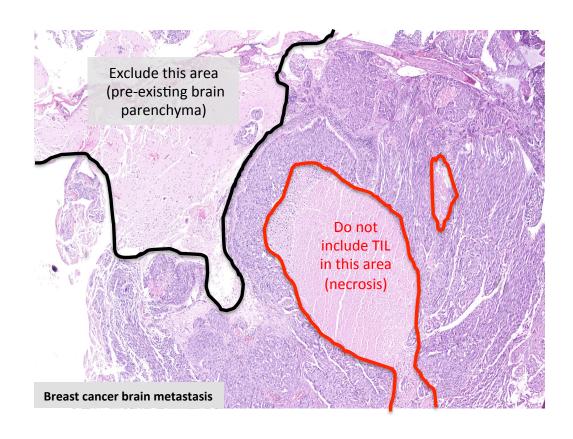


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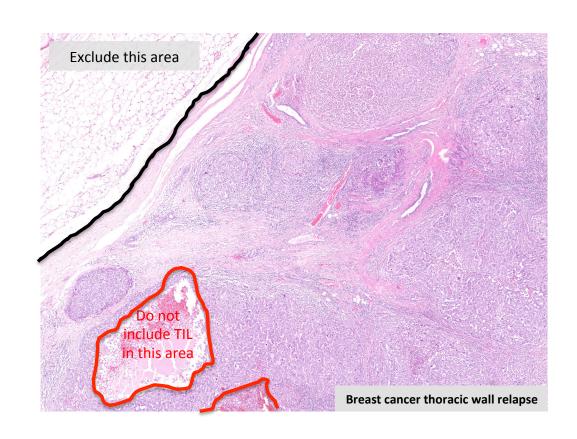


Include TILs in this area = stromal TILs

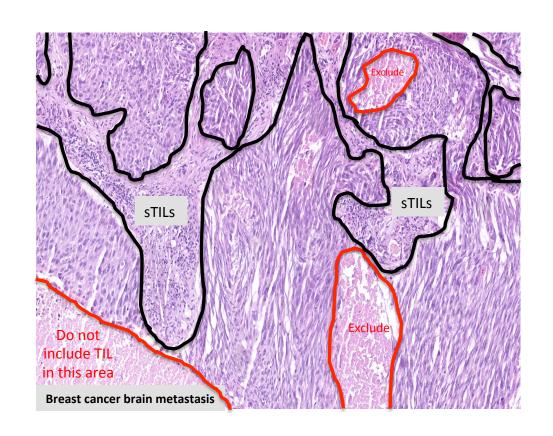
- In metastases, similar guidelines furthermore apply as in primary tumours:
 - Areas of necrosis or fibrosis are not included in the evaluation

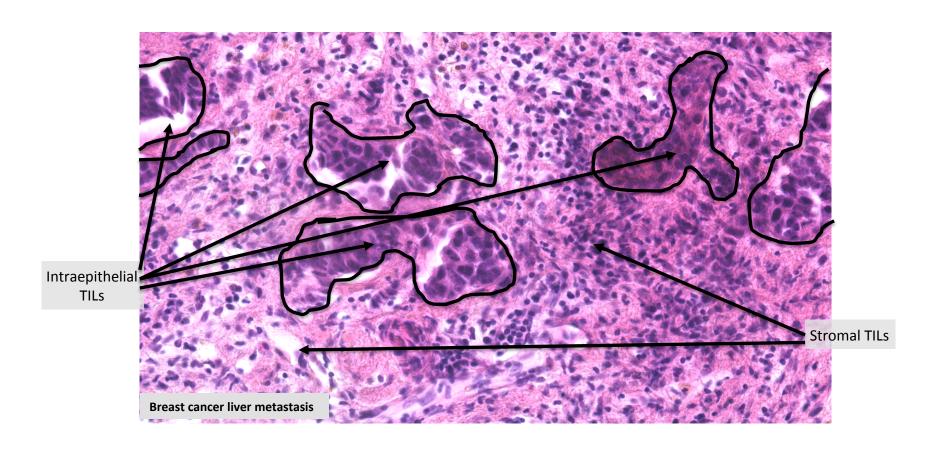


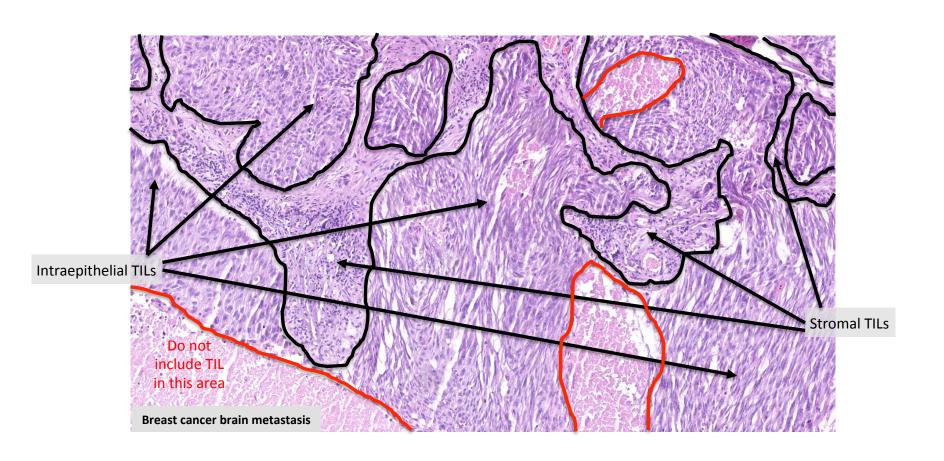
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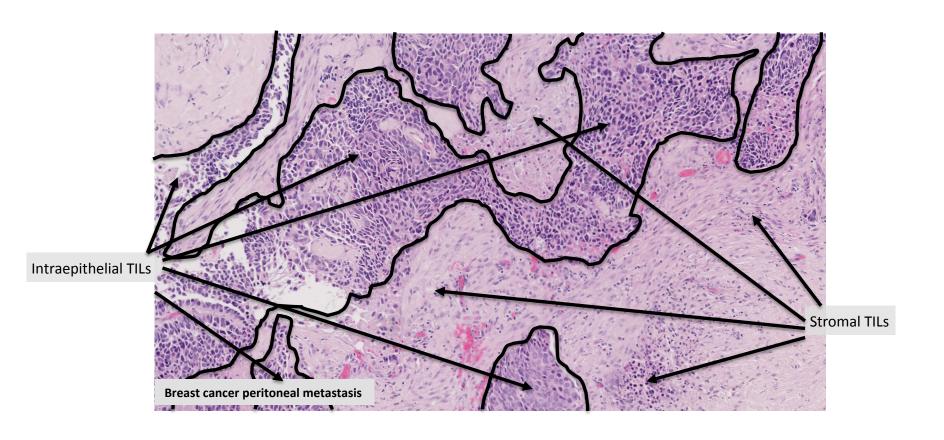


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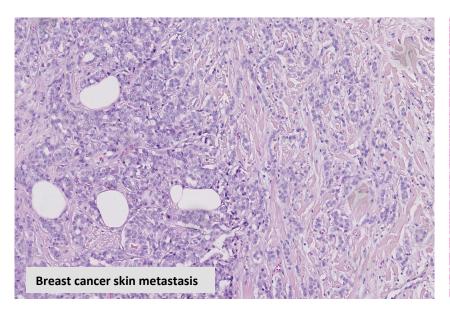


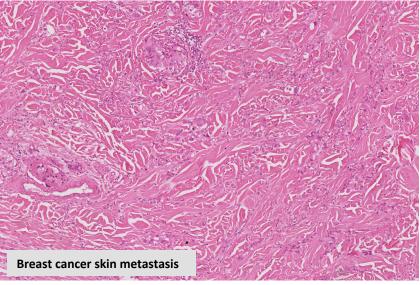






In some metastasis, distinguishing between stromal and intratumoral TILs is very difficult, due to the infiltrative growth pattern. It can be even a challenge to distinguish between epithelial tumor cells and TILs





Determine type of inflammatory infiltrate

Do not include granulocytic infiltrate in areas of tumor necrosis

Include only mononuclear infiltrate (lymphocytes & plasma cells)

