AI-assisted Metastasis Detection in Lymph Nodes

Simplyfing lymph node assessment
Visiopharm has developed a CE-IVD certified AI deep learning application that has been trained to detect metastases in H&E stained lymph nodes associated with breast and colorectal adenocarcinoma.

This highly accurate APP enables pathologists to not only detect areas of metastases in lymph nodes. It also orders, identifies, and assesses metastases based on relevant features for either breast or colorectal cancer metastasis (largest metastasis diameter or total area of metastasis).

Pathologist assessment of lymph node sections is a time consuming task that requires review of many slides, only a few of which are positive for cancer cells. Verified with clinical samples, the Metastasis Detection APP improves a tedious workflow, and results in improved sensitivity and specificity of metastasis detection in lymph nodes from colorectal and breast adenocarcinoma.

Benefit from AI-assisted metastasis detection in your diagnostic workflow

- **Multi-indication:**
  Verified on breast and colorectal data from 3 clinical sites for CE-IVD certification

- **Improved results:**
  Increased detection sensitivity compared to manual methods

- **Efficient:**
  Automated slide sorting based on indication specific output
Efficient workflow

Visiopharm’s Metastasis Detection APP for whole slide images can easily be integrated into your workflow to become a valuable time saver in your review process.

AI-supported assessment of metastases improves sensitivity

Verification Study on 296 breast cancer and 302 colorectal cancer lymph node samples from 3 clinical sites shows comparable performance for sensitivity and improved sensitivity compared to manual assessment.

<table>
<thead>
<tr>
<th></th>
<th>Manual</th>
<th>Manual + APP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breast: sensitivity</td>
<td>95.5</td>
<td>99.3</td>
</tr>
<tr>
<td>Breast: specificity</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Colon: sensitivity</td>
<td>99.3</td>
<td>100</td>
</tr>
<tr>
<td>Colon: specificity</td>
<td>98.7</td>
<td>99.3</td>
</tr>
</tbody>
</table>

In US: For Research Use Only, not for use in diagnostic procedures.
In EU: CE IVD.

Visiopharm A/S
Agern Allé 24
DK-2970 Hørsholm
www.visiopharm.com
Email: contact@visiopharm.com