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Anomalie radiologique autour du sein et cancers découverts par imagerie extra-mammaire

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MT pulmonaires

MT hépatiques

MT osseuses

MT ganglionnaires

Tumeur primaire

Table 1: Frequency of Site-specific Metastasis by Subtypes of Metastatic Breast Cancer

<table>
<thead>
<tr>
<th>Subtype of Metastatic Breast Cancer</th>
<th>Frequency of Site-specific Metastasis (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bone</td>
</tr>
<tr>
<td>Luminal A</td>
<td>66.6</td>
</tr>
<tr>
<td>Luminal B</td>
<td>71.4</td>
</tr>
<tr>
<td>HER2 positive, ER/PR positive</td>
<td>65.0</td>
</tr>
<tr>
<td>HER2 positive, ER/PR negative</td>
<td>59.6</td>
</tr>
<tr>
<td>Basal-like</td>
<td>39.0</td>
</tr>
<tr>
<td>TN nonbasal</td>
<td>43.1</td>
</tr>
<tr>
<td>Overall frequency</td>
<td>57.5</td>
</tr>
</tbody>
</table>

Note.—Adapted, with permission, from reference 10. ER = estrogen receptor, HER2 = human epidermal growth factor receptor 2, PR = progesterone receptor, TN = triple negative.
Systematic approach to evaluating extramammary structures on breast MR images

1. **Evaluate scout images**
   - The field of view is the largest on these images!

2. **Axial postcontrast images**
   - Above the diaphragm:
     - Thyroid
     - Mediastinum
     - Heart/vascular
     - Lung/pleura
     - Lymph nodes (IMC, axillae)
     - Skin
     - Chest wall/soft tissue
     - Bone (ribs, spine)

3. **Axial postcontrast images**
   - Below the diaphragm:
     - Liver
     - Spleen
     - Adrenals/kidneys (if seen)
     - Gastroesophageal junction
     - Bowel (if seen)
     - Skin
     - Abdominal wall/soft tissue
     - Bone (ribs, spine)

4. **Sagittal postcontrast images**
   - Mediastinum
   - Heart/vascular
   - Trachea/esophagus
   - Lung/pleura
   - Liver/stomach/bowel
   - Skin
   - Chest wall/soft tissue
   - Bone (manubrium, sternum, xiphoid, spine)

5. **T2-weighted images**
   - Correlate with focal findings
     - Pericardial: cysts
     - Liver: cysts, hemangiomas
     - Lung: pleural effusions
     - Upper abdomen: ascites
     - Bone: edema, fractures

Of the 2324 breast MR examinations, 86 patients (3.7% [95% CI: 3.0%, 4.5%]) had a recommendation for additional imaging to be performed for further evaluation of an extramammary finding. Of these 86 patients, 45 patients (52%) were evaluated as C-RADS category E3 and 38 patients (44%) were evaluated as E4.

SEIN
Incidental finding: body MRI


Wyttenbach et al. 2012; Bazzocchi et al. 2012; Dewey et al. 2007; Maxwell et al. 2015

BI-RADS 2 N = 25
BI-RADS 3 N = 13
BI-RADS 4 N = 3.
### Table 3: Frequency of incidental extracardiac findings at cardiac magnetic resonance imaging.

<table>
<thead>
<tr>
<th>Mild or no clinical significance</th>
<th>Possible clinical significance</th>
<th>Clinically significant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simple renal cyst</td>
<td>Pleural effusion</td>
<td>9</td>
</tr>
<tr>
<td>31</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Hepatic cyst</td>
<td>Thyroid goitre</td>
<td>6</td>
</tr>
<tr>
<td>24</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Hiatal hernia</td>
<td>Gallbladder lithiasis</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Liver haemangioma</td>
<td>Airspace disease</td>
<td>4</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>Breast nodule</td>
</tr>
<tr>
<td>Thyroid nodule &lt; 1 cm</td>
<td>Splenomegaly</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>Complex renal cyst</td>
</tr>
<tr>
<td>Pleural thickening</td>
<td>Hydronephrosis</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Hepatic mass</td>
</tr>
<tr>
<td>Paraspinal cyst</td>
<td>Adrenal nodule</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Solid renal mass</td>
</tr>
<tr>
<td>Splenic cyst</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>29</td>
</tr>
</tbody>
</table>

**Recommendation**

- **No further work-up is necessary**
- **Further work-up is recommended depending on specific clinical scenario**
- **Further diagnostic work-up is mandatory**

Gravina M. et al, BioMed Research International; Volume 2017 (2017), Article ID 2423546,
Pas seulement IRM...

Intramammary Findings on CT of the Chest. Review of Normal Anatomy and Possible Findings

Breast Lesions Incidentally Detected with CT: What the General Radiologist Needs to Know
Merci