

Online Resource 3: Grouped metastatic sites and corresponding primary tumours and classifications.

This supplementary information is part of “Identifying the primary tumour in patients with cancer of unknown primary (CUP) using FDG PET/CT: a systematic review and individual patient data meta-analysis”.

Detailed Information on FDG PET/CT results. True primary tumours, or the final diagnosis is shown for each subgroup.

Metastatic site	True positives	False positives*	False negatives*	Definitive CUP
Bone (n = 622)	<i>Lung/bronchial: 197</i> <i>Prostate: 34</i> <i>Upper GI: 18</i> <i>Thyroid: 10</i> <i>Testis: 1</i> <i>Small bowel: 1</i> <i>Sarcoma: 3</i> <i>Other: 2</i> <i>Mediastinum: 1</i> <i>Liver: 1</i> <i>Kidney/urology: 13</i> <i>Head & neck: 3</i> <i>Gynecology: 4</i> <i>Colorectum: 13</i> <i>Breast: 19</i> <i>Bone: 8</i> <i>Bile duct: 13</i> <i>Total: 348</i>	<i>Bone: 4</i> <i>Bile duct: 1</i> <i>Breast: 2</i> <i>Gynaecology: 1</i> <i>Kidney/urology: 1</i> <i>Lung/bronchial: 3</i> <i>Prostate: 2</i> <i>Upper GI: 1</i> <i>Other: 2</i> <i>Colorectum: 1</i> <i>Unknown: 20</i> <i>Total: 37</i>	<i>Bone: 10</i> <i>Lung/bronchial: 16</i> <i>Lymphoma: 5</i> <i>Prostate: 14</i> <i>Upper GI: 5</i> <i>Thyroid: 1</i> <i>Sarcoma: 3</i> <i>Other: 2</i> <i>Multiple myeloma: 8</i> <i>Colorectum: 3</i> <i>Kidney/urology: 2</i> <i>Melanoma: 1</i> <i>Breast: 5</i> <i>Liver: 1</i> <i>Bile duct: 1</i> <i>Total: 77</i>	Total: 160
Brain (n = 316)	<i>Lung/bronchial: 187</i> <i>Brain: 12</i> <i>Head & neck: 3</i> <i>Other: 2</i> <i>Colorectum: 6</i> <i>Kidney/urology: 7</i> <i>Gynaecology: 1</i> <i>Liver: 1</i> <i>Lymphoma: 7</i> <i>Mediastinum: 1</i> <i>Melanoma: 3</i>	<i>Gynecology: 1</i> <i>Lung/bronchial: 2</i> <i>Unknown: 8</i> <i>Total: 11</i>	<i>Brain: 1</i> <i>Lung/bronchial: 4</i> <i>Melanoma: 1</i> <i>Total: 6</i>	Total: 53

	<i>Pancreas: 2</i> <i>Prostate: 1</i> <i>Skin: 1</i> <i>Small bowel: 1</i> <i>Thyroid: 2</i> <i>Upper GI: 8</i> <i>Breast: 3</i> <i>Total: 246</i>			
Liver (n = 369)	<i>Appendix: 3</i> <i>Bile duct: 6</i> <i>Breast: 9</i> <i>Colorectum: 47</i> <i>Other: 11</i> <i>Gynecology: 15</i> <i>Head & neck: 2</i> <i>Kidney/urology: 2</i> <i>Liver: 15</i> <i>Lung/bronchial: 51</i> <i>Pancreas: 32</i> <i>Pleura: 2</i> <i>Prostate: 1</i> <i>Small bowel: 5</i> <i>Upper GI: 31</i> <i>Total: 232</i>	<i>Adrenal: 1</i> <i>Bile duct: 2</i> <i>Colorectum: 4</i> <i>Liver: 2</i> <i>Lung/bronchial: 3</i> <i>Small bowel: 1</i> <i>Upper GI: 2</i> <i>Unknown: 8</i> <i>Total: 23</i>	<i>Bile duct: 4</i> <i>Breast: 2</i> <i>Colorectum: 5</i> <i>Gynecology: 1</i> <i>Kidney/urology: 3</i> <i>Lung/bronchial: 2</i> <i>Melanoma: 1</i> <i>Other: 2</i> <i>Pancreas: 3</i> <i>Prostate: 2</i> <i>Small bowel: 1</i> <i>Upper GI: 3</i> <i>Total: 29</i>	Total: 85
TLN (n = 164)	<i>Breast: 14</i> <i>Gynecology: 2</i> <i>Head & neck: 1</i> <i>Leukemia: 1</i> <i>Lung/bronchial: 28</i> <i>Lymphoma: 6</i> <i>Mediastinum: 1</i> <i>Melanoma: 2</i> <i>Multiple myeloma: 1</i> <i>Other: 1</i> <i>Pancreas: 3</i> <i>Prostate: 1</i> <i>Skin: 1</i> <i>Thyroid: 2</i> <i>Total: 64</i>	<i>Bone: 1</i> <i>Unknown: 3</i> <i>Total: 4</i>	<i>Breast: 9</i> <i>Lung/bronchial: 5</i> <i>Mediastinum: 1</i> <i>Melanoma: 1</i> <i>Other: 4</i> <i>Testis: 1</i> <i>Total: 21</i>	Total: 75
ALN (n = 102)	<i>Bile duct: 1</i> <i>Breast: 1</i> <i>Colorectum: 3</i> <i>Gynecology: 2</i> <i>Head & neck: 2</i> <i>Lung/bronchial: 4</i> <i>Lymphoma: 5</i> <i>Other: 2</i> <i>Pancreas: 4</i>	<i>Lymphoma: 3</i> <i>Unknown: 3</i> <i>Total: 6</i>	<i>Adrenal: 1</i> <i>Bile duct: 1</i> <i>Gynecology: 1</i> <i>Lung/bronchial: 1</i> <i>Other: 3</i> <i>Pancreas: 2</i> <i>Lymphoma: 1</i> <i>Total: 10</i>	Total: 52

	<i>Penis: 1</i> <i>Prostate: 2</i> <i>Sarcoma: 1</i> <i>Small bowel: 2</i> <i>Testis: 2</i> <i>Upper GI: 2</i> <i>Total: 34</i>			
LN(NS) (n =92)	<i>Bile duct: 1</i> <i>Colorectum: 1</i> <i>Gynecology: 9</i> <i>Lung/bronchial: 10</i> <i>Lymphoma: 4</i> <i>Head & Neck: 2</i> <i>Kidney/urology: 2</i> <i>Pancreas: 2</i> <i>Prostate: 1</i> <i>Testis: 1</i> <i>Breast: 1</i> <i>Thyroid: 1</i> <i>Upper GI: 3</i> <i>Other: 2</i> <i>Total: 40</i>	<i>Gynecology: 3</i> <i>Colorectum: 1</i> <i>Kidney/urology: 1</i> <i>Testis: 2</i> <i>Lung/bronchial: 1</i> <i>Unknown: 12</i> <i>Total: 20</i>	<i>Melanoma: 2</i> <i>Breast: 1</i> <i>Penis: 1</i> <i>Total: 4</i>	<i>Total: 28</i>
Lung (n = 67)	<i>Bile duct: 1</i> <i>Colorectum: 5</i> <i>Other: 1</i> <i>Gynecology: 1</i> <i>Head & neck: 2</i> <i>Liver: 2</i> <i>Lung/bronchial: 18</i> <i>Pancreas: 2</i> <i>Total: 32</i>	<i>Unknown: 6</i> <i>Total: 6</i>	<i>Gynecology: 2</i> <i>Other: 1</i> <i>Pancreas: 1</i> <i>Lung/bronchial: 3</i> <i>Kidney/urology: 1</i> <i>Melanoma: 1</i> <i>Prostate: 1</i> <i>Total: 10</i>	<i>Total: 19</i>
Peritoneum (n = 70)	<i>Appendix: 1</i> <i>Bile duct: 4</i> <i>Colorectum: 7</i> <i>Gynecology: 6</i> <i>Upper GI: 5</i> <i>Total: 23</i>	<i>Unknown: 1</i> <i>Total: 1</i>	<i>Appendix: 1</i> <i>Bile duct: 1</i> <i>Gynecology: 1</i> <i>Other: 1</i> <i>Upper GI: 1</i> <i>Total: 5</i>	<i>Total: 41</i>
Soft tissue (n = 23)	<i>Breast: 1</i> <i>Kidney/urology: 2</i> <i>Lung/bronchial: 3</i> <i>Total: 6</i>	<i>Unknown: 2</i> <i>Skin: 1</i> <i>Total: 3</i>	<i>Other: 2</i> <i>Breast: 1</i> <i>Gynaecology: 1</i> <i>Total: 4</i>	<i>Total: 10</i>

*True primary shown

Article Title:

Identifying the primary tumour in patients with cancer of unknown primary (CUP) using FDG PET/CT: a systematic review and individual patient data meta-analysis

Journal:

European Journal of Nuclear Medicine and Molecular Imaging

Corresponding Author Details:

Max J. Lahaye, M.D., Ph.D

Department of Radiology, the Netherlands Cancer Institute

P.O. Box 90203, 1006 BE Amsterdam, The Netherlands

email: mj.lahaye@gmail.com ; m.lahaye@nki.nl

ORCID: 0000-0002-8444-202X