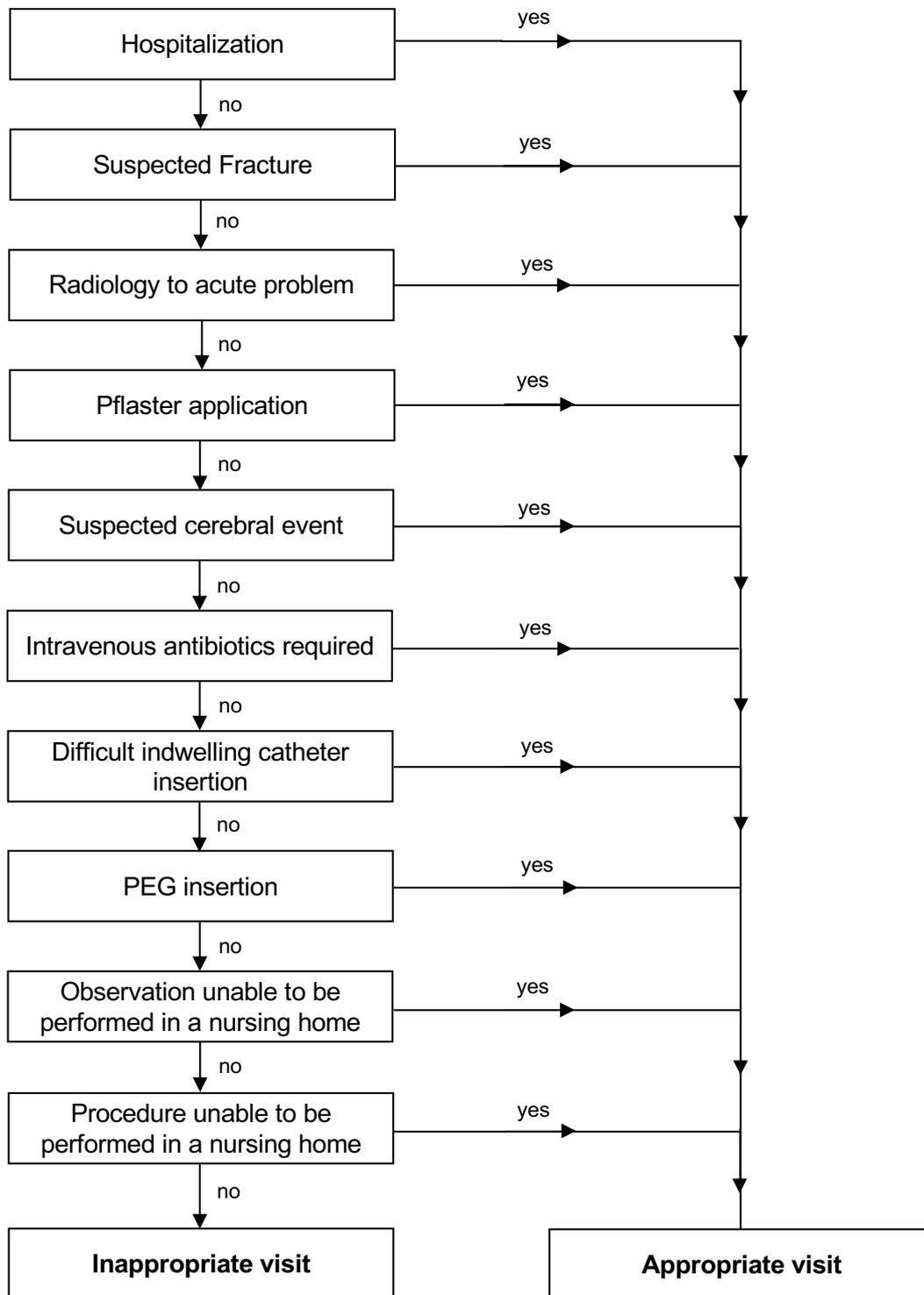


**Additional file 1: decision-tree “inappropriate ED-visits”\***



\* The appropriateness assessment criteria by Finn et al. (2006) were used for this decision tree. In order to decide upon presence or absence of the criteria an internal guidance document was created (see page 2); PEG=percutaneous endoscopic gastrostomy

Keywords used for judgement of presence or absence of the appropriateness assessment criteria by Finn et al. (2006)

<b>Criterion</b>	<b>Keywords in patients' records</b>
<i>Hospitalisation</i>	<ul style="list-style-type: none"> <li>- Transfer</li> <li>- Hospitalised</li> <li>- Ward</li> </ul>
<i>Suspected fracture</i>	<ul style="list-style-type: none"> <li>- Fall</li> <li>- hip pain / pain after fall</li> <li>- Femoral neck fracture / fractures</li> <li>- Swelling</li> <li>- X-ray / CT / MRI</li> </ul>
<i>Radiology to acute problem</i>	<ul style="list-style-type: none"> <li>- X-ray / CT / MRI</li> <li>- Fracture</li> <li>- Pneumonia / infection / increased CRP / leukocytes</li> </ul>
<i>Plaster application</i>	<ul style="list-style-type: none"> <li>- Fall</li> <li>- Fracture</li> <li>- Plaster</li> </ul>
<i>Suspected cerebral event</i>	<ul style="list-style-type: none"> <li>- Delirium / confusion</li> <li>- (lower) GCS</li> <li>- Cranial CT</li> <li>- Commotio / Contusion (possibly after a fall)</li> <li>- Sudden loss of consciousness / clouding</li> <li>- Word finding disorders</li> <li>- Paralysis</li> </ul>
<i>Intravenous antibiotics required</i>	<ul style="list-style-type: none"> <li>- Antibiosis / infusion</li> <li>- Sepsis / infection</li> <li>- Increased CRP / leukocytes</li> </ul>
<i>Difficult indwelling catheter insertion</i>	<ul style="list-style-type: none"> <li>- Permanent catheter / catheterization</li> <li>- Urinary retention</li> <li>- Prostate hyperplasia</li> </ul>
<i>PEG insertion</i>	<ul style="list-style-type: none"> <li>- PEG insert / special surgeon</li> <li>- Swallowing disorder</li> </ul>
<i>Observation unable to be performed in a nursing home</i>	<ul style="list-style-type: none"> <li>- Surveillance / monitoring (especially at night)</li> <li>- Vital signs / GCS</li> <li>- Telemetry / ECG</li> <li>- Bleedings</li> </ul>
<i>Procedure unable to be performed in a nursing home</i>	<ul style="list-style-type: none"> <li>- Infusion therapy (analgesia, transfusion, diuresis, antibiosis, dehydration)</li> <li>- Imaging (X-ray, CT, MRI)</li> <li>- Special diagnostics (gastroscopy, bronchoscopy, colonoscopy, sonography, cardiac catheterisation)</li> <li>- Intubation / ventilation</li> <li>- Surgery</li> <li>- Replacement of a suprapubic catheter or VAC</li> </ul>

CRP=C-reactive protein; CT=computer tomography; ECG=electrocardiogram; GCS=Glasgow Coma Scale; MRI=Magnet resonance therapy; PEG=percutaneous endoscopic gastrostomy