NINDS CDE Project

Working group: SAH Imaging
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Please answer the following questions below.

1. **Approach for selection of elements** (How did you go about drafting the recommendations and/or reviewing the current tools/instruments, and did you have any criteria for selection and classification?)
   Definition and classification of CDEs through team of topic-specific experts.

2. **Differential application to types of subarachnoid hemorrhage** *(Do the instruments/elements you recommended differ between the types of subarachnoid hemorrhage?)*
   No.

3. **Summary recommendations** *(We could consider a summary table OR each group could summarize their recommendations)*.

<table>
<thead>
<tr>
<th>Instrument / Scale / CRF Name</th>
<th>Domain</th>
<th>Subdomain</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electroencephalography CRF</td>
<td>Assessments and Examinations</td>
<td>Non-Imaging Diagnostics</td>
<td>Supplemental</td>
</tr>
<tr>
<td>Imaging Modalities CRF</td>
<td>Assessments and Examinations</td>
<td>Imaging Diagnostics</td>
<td>Core: Imaging modality used</td>
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<td></td>
<td><strong>Supplemental - Highly Recommended</strong>: Imaging date and time collected; Scan purpose; Modified Fisher Scale grade; Presence of subdural hematoma; Presence of arteriovenous</td>
</tr>
</tbody>
</table>
### Parenchymal Imaging CRF

**Assessments and Examinations**

**Imaging Diagnostics**

**Core:** Imaging modality used  
**Supplemental - Highly Recommended:** Imaging date and time collected; Scan purpose; Sequences acquired and slice thickness; CTA source image use; IVH presence; Graeb IVH scale result; Volume of IVH; Presence of SAH; Type of subdural hematoma; Presence of hydrocephalus; Presence of arteriovenous malformation

### Vessel Imaging Angiography CRF

**Assessments and Examinations**

**Imaging Diagnostics**

**Core:** Imaging modality used; arterial findings, cause and symptomology  
**Supplemental - Highly Recommended:** Imaging date and time collected; Scan purpose; Type of MRA; Type of CTA; Confidence level of venous findings; Anatomic location of aneurysm; Aneurysm location; Dome size; Neck size; Largest height/largest neck diameter; Occlusion percentage of aneurysm; Raymond-Roy Occlusion Classification

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4. **Comparison to other subarachnoid hemorrhage standards** (Are there any notable similarities/differences in the CDE recommendations as compared with other standards?)  
Not applicable.
5. **Issues unique to subarachnoid hemorrhage disease** *(Were there any issues encountered when developing the CDE standards which are unique to subarachnoid hemorrhage or which highlight a unique concern about subarachnoid hemorrhage data collection?)*
   - Orphan disease
   - Affection of predominantly young people
   - Multidisciplinary care (Neurosurgery, Neurology, Neuro-Intensivists, Neuroradiology)

6. **Unmet needs; unanswered questions** *(What unmet need / unanswered questions were identified via the CDE process in subarachnoid hemorrhage? What areas are in need of further research and development?)*
   - Homogenous definitions of
     - aneurysm morphology
     - anatomical sites
     - measurements
     - hemodynamic parameters