### Additional file 2. REDCap data extraction form

<table>
<thead>
<tr>
<th><strong>Reviewer Initials</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Study ID</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Author</strong></td>
<td>(Last name of author)</td>
</tr>
<tr>
<td><strong>Year</strong></td>
<td>(Year of publication)</td>
</tr>
</tbody>
</table>

#### Study Characteristics

**What continent was the study conducted in?**
- North America
- South America
- Europe
- Asia
- Africa
- Australia/Oceania

**What country was the study conducted in?**
- Canada
- U.S.A.
- Mexico
- Germany
- France
- Italy
- Japan
- China
- North/South Korea
- Australia
- New Zealand
- Brazil
- Russia
- Other

**Please specify the country.**

**What type of hospital setting was the study conducted in? Select all that apply.**
- Community hospital
- Teaching hospital
- Academic hospital
- General hospital
- Specialty care hospital
- Urban hospital setting
- Rural hospital setting
- Single centre
- Multi centre

**What specialty area was the study conducted in? Select all that apply.**
- Trauma
- Intensive Care
- Renal
- Cardiac
- Neurological
- Orthopaedic
- Hematological
- Paediatric
- Other
- All of the above

**Who was the intervention applied on? (In other words, who were the study participants?) Select all that apply.**
- Nurses
- Physicians
- Pharmacists
- Occupational Therapists
- Radiologists
- Technicians
- Respiratory Therapists
- Students
- None of the above
How many study participants were there?

(Enter '0' if not provided. Enter '-' if not applicable.)

What was the female proportion of participants?

(%)  

How many records were used?

(Enter '0' if not provided. Enter '-' if not applicable.)

What intervention was implemented to improve EHR documentation? Select all that apply.

- New EHR reporting system (e.g. structured, point-and-click, stroke-specific, proforma)
- New EHR software or vendor
- New EHR modality (e.g. hand-held computer, laptop)
- Reminders within EHR system
- Template/Guideline/Example displayed to EHR user
- Educational program (e.g. training session, in-service, video, simulation)
- Feedback provided to EHR user
- Audit
- Other

Please describe the intervention used.

What was the study design?

- RCT
- Observational
- Quasi-Experimental

Please specify. Select all that apply.

- Prospective
- Retrospective
- Pre-test/Post-test
- Interrupted time-series
- Combination
- Other
- Not specified

What was the intervention compared to?

- Standardized documentation
- Dictation
- Non-structured reporting
- No template provided
- Paper documentation
- No education provided
- Baseline (no further description)

What was the intervention compared to? Select all that apply.

- Standardized documentation
- Dictation
- Non-structured reporting
- No template provided
- No education provided
- Paper documentation
- Baseline (no further description)

Please select the type of observational study. Select all that apply.

- Prospective cohort
- Retrospective cohort
- Prospective case-control
- Retrospective case-control
- Cross-sectional
- Unsure
What were the control and intervention arms?

<table>
<thead>
<tr>
<th>Was randomization used?</th>
<th>○ No</th>
<th>○ Yes</th>
<th>○ Not specified</th>
<th>○ Unsure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Was there assessment for bias?</td>
<td>○ No</td>
<td>○ Yes</td>
<td>○ Not specified</td>
<td>○ Unsure</td>
</tr>
<tr>
<td>Was blinding used?</td>
<td>○ No</td>
<td>○ Yes</td>
<td>○ Not specified</td>
<td>○ Unsure</td>
</tr>
<tr>
<td>Was allocation concealment used?</td>
<td>○ No</td>
<td>○ Yes</td>
<td>○ Not specified</td>
<td>○ Unsure</td>
</tr>
<tr>
<td>Was EHR documentation improved?</td>
<td>○ No, it worsened</td>
<td>○ Yes</td>
<td>○ Yes and No</td>
<td>○ No, it stayed the same</td>
</tr>
</tbody>
</table>

How was the intervention measured? Select all that apply.

- [ ] Medication accuracy (e.g. med. errors/reconciliation)
- [ ] Timeliness (e.g. time to complete documentation, time to availability of documentation)
- [ ] Completeness (missing information in document)
- [ ] Capture of documentation (more or less reports)
- [ ] Documentation accuracy (e.g. errors, discrepancies)
- [ ] Quality (e.g. quality indicators, overall quality)
- [ ] Clarity (as judged by reviewer of document)
- [ ] Length
- [ ] Other

Please describe the intervention measure.

<table>
<thead>
<tr>
<th>Was documentation improved according to medication accuracy?</th>
<th>○ No, it was worse than control group</th>
<th>○ No, it stayed the same</th>
<th>○ Yes, it improved</th>
<th>○ Unsure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Was documentation improved according to timeliness?</td>
<td>○ No, it was worse than control group</td>
<td>○ No, it stayed the same</td>
<td>○ Yes, it improved</td>
<td>○ Unsure</td>
</tr>
<tr>
<td>Was documentation improved according to completeness?</td>
<td>○ No, it was worse than control group</td>
<td>○ No, it stayed the same</td>
<td>○ Yes, it improved</td>
<td>○ Unsure</td>
</tr>
<tr>
<td>Was documentation improved according to capture of documentation?</td>
<td>○ No, it was worse than control group</td>
<td>○ No, it stayed the same</td>
<td>○ Yes, it improved</td>
<td>○ Unsure</td>
</tr>
</tbody>
</table>
Was documentation improved according to documentation accuracy?
- No, it was worse than control group
- No, it stayed the same
- Yes, it improved
- Unsure

Was documentation improved according to quality?
- No, it was worse than control group
- No, it stayed the same
- Yes, it improved
- Unsure

Was documentation improved according to clarity?
- No, it was worse than control group
- No, it stayed the same
- Yes, it improved
- Unsure

Was documentation improved according to length?
- No, it was worse than control group
- No, it stayed the same
- Yes, it improved
- Unsure

Was documentation improved according to this other measure?
- No, it was worse than control group
- No, it stayed the same
- Yes, it improved
- Unsure

What quantity of improvement was reported for medication accuracy?
(Specify if mean, rate, improved, worsened, etc.)

What quantity of improvement was reported for timeliness?
(Specify if mean, rate, improved, worsened, etc.)

What quantity of improvement was reported for completeness?
(Specify if mean, rate, improved, worsened, etc.)

What quantity of improvement was reported for capture of documentation?
(Specify if mean, rate, improved, worsened, etc.)

What quantity of improvement was reported for documentation accuracy?
(Specify if mean, rate, improved, worsened, etc.)

What quantity of improvement was reported for quality?
(Specify if mean, rate, improved, worsened, etc.)

What quantity of improvement was reported for clarity?
(Specify if mean, rate, improved, worsened, etc.)

What quantity of improvement was reported for length?
(Specify if mean, rate, improved, worsened, etc.)

Please provide a p-value for medication accuracy, if available.

Please provide a p-value for timeliness, if available.

Please provide a p-value for completeness, if available.

Please provide a p-value for capture of documentation, if available.

Please provide a p-value for accuracy, if available.

Please provide a p-value for quality, if available.
Please provide a p-value for clarity, if available. ________________________________

Please provide a p-value for length, if available. ________________________________

Please provide a p-value for this other measure, if available. ________________________________

Was there a difference in EHR documentation between study participants?  
☐ No  
☐ Yes

What factor influenced the difference in documentation between study participants? Select all that apply.  
☐ EHR documentation setting  
☐ Student versus non-student  
☐ Years of experience  
☐ Age  
☐ Gender

Were study participants followed-up?  
☐ No  
☐ Yes  
☐ Unsure

For how long? (Please specify unit (days, weeks, months, years).)