

Neuroimaging Quality Control Survey

This is a request from the INCF task force on Neuroimaging Quality Control (niQC), with the goals to standardize and develop best practices for QC. Learn more here: tinyurl.com/WeNeedNiQC

This survey is intended to get a sense of various types of QC that is done during the FULL LIFE-CYCLE of neuroimaging research, including but not limited to data collection, preprocessing, intermediate outputs and final results.

Ideally we would like to capture all the relevant details for the QC you/your lab engages in: the context of the analyses, need for QC, how exactly is it performed, how is your particular method (or protocol) justified, tools you use or developed, and the challenges you face in this context.

This is a BROAD survey and we would like to capture ALL TYPES of QC in ALL MODALITIES, within and across.

This is an INFORMAL survey and hence it is enough to simply describe what's happening. If you don't have an answer to a mandatory question, just say None or N/A.

Focus on smallest coherent QC task possible i.e. a single task. For each type or modality of QC task, provide a separate response.

If you do NOT engage in QC yet, it would be great if you could describe your need and how you would ideally like to perform it (methods and tools, sort of a WISH-LIST).

Please share it with your colleagues and across your collaborators link:
<https://goo.gl/forms/oBSrhbDbBtkmBVSU2>

Join us <https://groups.google.com/d/forum/niqc>

* Required

What is the context in which you perform this QC? The context can be an analysis or data or modality or output. *

Your answer

What is the goal of this QC task? *

Your answer



Describe the process involved in this QC task? *

Be as detailed as possible, including references to protocols, papers etc. If your text is longer, use next two fields. If you have them in a document format, feel free to send them via email to niqc@googlegroups.com

Your answer

Additional space for describing QC process (1/2)

Your answer

Additional space for describing QC process (2/2)

Your answer

What tools and libraries do you for this QC task? *

Please find links to code or papers. If tools are lacking, describe what you would ideally like and why.

Your answer

What are the relevant papers to this protocol? Justification or any research relevant to QC

We are collecting the literature at this Zotero group: <https://www.zotero.org/groups/2221093/niqc>
You're welcome to add any relevant papers there.

Your answer

How you prepare the data to perform QC?

Be as detailed as possible, including references to protocols, papers, tools used, OS, etc.

Your answer

How do you save and organize results of the QC process? *

Be as detailed as possible, including references to protocols, papers, tools used, OS, etc.

Your answer



How do you USE results from the QC process? Do you exclude bad samples or correct them? Or how else do you use them the results? *

Be as detailed as possible, including references to protocols, papers, tools used, OS, etc.

Your answer

How do you report how you performed this QC process and results? *

Be as detailed as possible, including references to protocols, papers, tools used, OS, etc.

Your answer

What difficulties did you face in this QC task?

Be as detailed as possible.

Your answer

What are the difficulties in TRAINING people for this task?

Describe lack of manuals, lack of clear definitions and lack of motivation to tedious job.

Your answer

How long does the whole process take, approximately PER SUBJECT (or another unit appropriate for this task)? Report in minutes.

Report median amount of time taken. if unquantifiable or something else, explain.

Your answer

For the WHOLE DATASET, how long does it take? Its not always NumSubjects*TimePerSubject, sometimes you may have redo certain subjects or few aspects to finalize all the QC

Report median amount of time taken. if unquantifiable or something else, explain.

Your answer

How does your process differ from others you are aware of? If you chose to do it differently, Why?

Be as detailed as possible, including references to protocols, papers etc

Your answer



As a researcher or reviewer, what errors / mistakes do you notice in the literature and other labs?

When you identify the problem, also try to mention the solutions you are aware of.

Your answer

What difficulties did you face with the reviewers?

Whether they are justified or not. How can we improve the status quo here?

Your answer

Do you think it's possible to harmonize this process across labs/world?

You can use the **Other option** to note down your thoughts and provide more details.

Yes

No

Other: _____

If you think it's NOT possible to harmonize this process, describe why.

Be as detailed as possible, including references to protocols, papers etc

Your answer

If you think it's INDEED possible to harmonize this process, describe why hasn't it happened already.

Be as detailed as possible, including references to protocols, papers etc

Your answer

If a standardized protocol were to be developed, would you adopt it?

Yes

No



If you don't want to adopt a standardized protocol, please describe your reasons.

Be as detailed as possible (survey fully anonymous)

Your answer

Would you be interested in crowdsourcing QC for public or your own datasets?

i.e. everyone involved contributes to QCing a small subset of big dataset. With large number of contributions, everyone gets QCed and higher-quality data at the end.

Yes

No

Other: _____

If you are interested in the results of survey, please input your email address here.

Your answer

Any other comments or feedback?

Your answer

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