1. Date of scan:
2. Equipment:
3. Magnet Strength (Choose one):

[ ] 1.5T [ ] 3T [ ] 7T [ ] Other, specify:

1. Coil (Choose one):

[ ] Single Coil [ ] 8-ch [ ] 16-ch [ ] 32-ch [ ] Other, specify:

1. Name of the scanner manufacturer:

 [ ] GE [ ]  Siemens [ ]  Philips [ ]  Toshiba [ ]  Other, specify:

1. Number of different MRI scanners used:

e. Scanner software or hardware updates during study performance:

1. Quality Assurance:

What measures of quality assurance scans were used?

1. Imaging Paradigm:
	1. Approach: (Choose all that apply)

[ ] Evoked Functional Scan with Stimulation or Task

* + 1. Type of stimulation, if applicable:

 [ ]  Sensory

 [ ] Non-painful (specify modality: e.g. visual/auditory/olfactory/gustatory/tactile)

 [ ]  Painful (specify modality: e.g. thermal, visual, chemical)

* + 1. Device used for stimulation: Make: Model: Year:
		2. Details of the stimulation paradigm:
			1. Name of task, if applicable.
			2. Reference to where this task was previously used.
			3. Duration on period (include units):
			4. Duration off period (include units):
			5. Randomization technique: [ ] Randomized delivery [ ] Non-randomized delivery
			6. Are there multiple evoked functional acquisitions? [ ] Yes [ ] No
			7. Total number of stimulations?
			8. If there are multiple evoked functional acquisitions, what is the rest duration in between acquisitions? Seconds

[ ] Evoked Functional Scan with Patient Task

1. Type of patient task, if applicable: [ ]  Motor [ ]  Cognitive [ ]  Other, specify:
2. Duration on period (include units):
3. Duration off period (include units):
4. Randomization technique: [ ] Randomized delivery [ ] Non-randomized delivery
5. Are there multiple evoked functional acquisitions? [ ] Yes [ ] No
6. Total number of performed tasks?
7. If there are multiple evoked functional acquisitions, what is the rest duration in between acquisitions (include units)?

[ ] Resting State Functional Imaging

1. Type of sequence used: [ ]  Single echo [ ]  Multi-echo [ ]  Multi-band
2. Multiband acceleration factor: S (SENSE) factor: M (multiband) factor:

[ ] Perfusion Imaging (e.g. Arterial Spin Labeling)

[ ] Other

* + - * 1. Anatomical Image/Normalisation Image:
1. Imaging parameters:
	* + 1. Repetition time (TR): ms
			2. Echo time (TE): ms
			3. Voxel size: mm
			4. Matrix size: mm
			5. Field of view: mm2
			6. Number of slices:
		1. Scan time duration (include units):
		2. Acquisition type:
		3. Reconstruction method used:
2. Functional Imaging:
	* 1. Imaging parameters:
			1. Repetition time (TR): ms
			2. Echo time (TE): ms
			3. Flip angle (FA): **°**
			4. Voxel size: mm
			5. Number of averages:
			6. Matrix size: mm
			7. Field of view: mm2
			8. Slice thickness: mm
			9. Number of slices:
			10. Gap between slices: mm or %
		2. Scan time duration: minutes
		3. Acquisition type: [ ] EPI [ ] SSFSP [ ] Spiral [ ] Other, specify:
		4. Reconstruction method used:

[ ]  Event related fMRI [ ]  Block design fMRI

v. Was a fixation landmark used? [ ] Yes [ ] No

1. Were the participant’s/subject’s eyes open or closed (Choose one):

[ ] Eyes Open [ ] Eyes Closed

1. Preprocessing:

A. What format was the data exported from the scanner to local workstations/computers?

B. Was QA performed on the data for artifact detection and potential exclusion of the subject data from analysis? [ ] Yes [ ] No

C. Was the data denoised? [ ] Yes [ ] No

D. Was High/Low Pass filter approach used? [ ] Yes [ ] No

E. Describe motion correction technique and the pass criteria:

F. Was skull stripping performed for anatomical and functional images? [ ] Yes [ ] No

G. Were any of the following performed? [ ] Smoothing [ ] Upsampling/downsampling

* 1. If one of the above is selected, specify details:

H. Describe the spatial normalization approach transformation from functional space to a standard brain space:

I. Report the standard average brain used:

1. Processing and Analysis:
2. What processing tool(s)/package(s) version(s) was/were used for analyzing the data? (Choose all that apply)

[ ] FSL, Version

[ ] SPM, Version

[ ] AFNI, Version

[ ] Brain Voyager, Version

[ ] IMAGEJ, Version

[ ] FREESURFER, Version

[ ] SLICER, Version

[ ] MRICron,Version

[ ] LC Model,Version

[ ] Other, specify: Version:

1. Analysis approach:
2. Analysis Type:

 [ ]  Region of interest [ ]  Whole brain [ ]  Independent Components Analysis

[ ]  Other,specify

* 1. If region of interest approach, please complete the following:
		1. Region coordinates (x,y,z; atlas space)
		2. Region size (mm)
1. Describe the details of the assumptions/settings for first-level time series analysis:
2. Define contrasts:
3. What were the statistical tests used for group analysis
4. Reporting:
5. Indicate the p-values used for comparisons between cohorts or the group averages:
6. Describe the rationale for choosing the thresholds for thresholding the results:
7. Describe the method chosen for correcting for multiple comparisons
8. If applicable, indicate the coordinate of significant clusters: [ ] N/A
9. If applicable, indicate the size of the significant clusters: [ ] N/A
10. If applicable, indicate the p-values used for any correlative analysis: [ ] N/A

**General Instructions**

This CRF contains data that would be collected when an imaging study is performed to detect the structure–function relationships within the brain that are characteristic of ME/CFS.

Important note: All elements on this CRF are considered Supplemental – Highly Recommended and should be collected as part of an fMRI study.

**Specific Instructions**

Please see the Data Dictionary for definitions for each of the data elements included in this CRF Module.

The CRF includes all instructions available for the data elements at this time

* Date of scan– Record the date/time according to the ISO 8601, the International Standard for the representation of dates and times ([Click here for International Standard for Dates and Times](http://www.iso.org/iso/home.html)). The date/time should be recorded to the level of granularity known (e.g., year, year and month, complete date plus hours and minutes, etc.).
* Magnet Strength – Choose one
* Coil - Choose one
* Name of the scanner manufacturer – Choose one
* Number of different MRI scanners used – Report the number of different MRI scanners that were used for imaging participants during the study
* What measures of quality assurance scans were used? – Examples include visual inspection by radiologist/ radiology technician.
* Approach - Choose all that apply
* Type of stimulation – Choose all that apply
* Device used for stimulation – Report the specifications of the device used to stimulate the participant during the evoked functional scan
* Name of task, if applicable – For example: Stroop task
* Reference to where this task was previously used.
* Duration on period – the duration that each stimulation is given during the imaging paradigm
* Duration off period – the duration between individual stimuli during the imaging paradigm
* Randomization technique – Choose one. Report whether the order of the stimuli or order of on and off-periods was random or non-random.
* Are there multiple evoked functional activations? Report the number of imaging sequences/runs of evoked functional activations.
* Total number of stimulations – Report the total number of times that the patient was stimulated during the study.
* If there are multiple evoked functional acquisitions, what is the rest duration in between acquisitions? Report the duration of time between each functional activation
* Type of patient task – Choose all that apply
* Duration on period – the duration that each task is performed during the imaging paradigm
* Duration off period – the duration between each task performance during the imaging paradigm
* Randomization technique – Choose one. Report whether the order of tasks or the order of on periods and off periods are random or non-random.
* Are there multiple evoked functional acquisitions - Report the number of imaging sequences/ runs of evoked functional activations.
* Total number of performed tasks – Report the total number of times that the patient performed a task during the study.
* If there are multiple evoked functional acquisitions, what is the rest duration between acquisitions – Report the duration of time between each functional acquisition
* Type of sequence used: no additional instructions
* Multiband acceleration factor: no additional instructions
* Anatomical Image/Normalisation Image – the anatomical image that is used to visualize/localize the functional activity.
* Repetition time (TR) – No additional instructions
* Echo time (TE) – No additional instructions
* Voxel size – No additional instructions
* Matrix size – No additional instructions
* Field of view – No additional instructions
* Number of slices – No additional instructions
* Acquisition type – No additional instructions
* Reconstruction method used – No additional instructions
* Flip angle – No additional instructions
* Number of averages – No additional instructions
* Slice thickness – No additional instructions
* Gap between slices – No additional instructions
* Scan time duration – Report the duration of the imaging paradigm
* Reconstruction method used – Choose one
* Non-stimulation based functional paradigms – No additional instructions
* Preprocessing – No additional instructions
* Processing and Analysis – No additional instructions
* Indicate the p-values used for comparisons between cohorts or the group averages – No additional instructions
* Describe the rationale for choosing the thresholds for thresholding the results – No additional instructions
* Describe the method chosen for correcting for multiple comparisons – No additional instructions
* If applicable, indicate the coordinate of significant clusters: If applicable, specify the coordinate of significant clusters. If not applicable, select ‘N/A’
* If applicable, indicate the size of the significant clusters. If not applicable, select ‘N/A’
* If applicable, indicate the p-values used for any correlative analysis: If applicable, specify the p-values used for any correlative analysis. If not applicable, select ‘N/A’