Key Variables Extracted from the Best Practices in Data Analysis and Sharing in Neuroimaging using MRI (COBIDAS) Document

Experimental Design		
□ Age (mean, SD, range)	Exclusion criteria	□ Race/Ethnicity (if applicable)
Sex	Clinical criteria	□ Matching strategy (if applicable)
Education (Parents) / SES	Clinical Instruments	□ Subject scanning order
□ Handedness	□ Cognitive measures	Pre-registration of study
Ethical Considerations		
Ethical approval	□ Informed consent	□ Informed assent (if applicable)
Acquisition Reporting		· • • · · ·
Special accommodations	□ Pulse sequence & parameters (full set	□ Fat suppression
□ MRI model and field strength	listed in COBIDAS document)	□ Brain coverage
□ Type of head coil	Parallel imaging / multiband	□ Internal scanner pre-processing
Functional MRI		1 1 5
□ Task or resting-state fMRI	□ "Dummy" scans acquired	□ Motion monitoring / correction
□ Length and number of runs	□ Slice order and timing	□ rs-fMRI: Eyes open or closed?
Task functional MRI		
Design (Event related, block, etc.)	□ Optimization of design?	□ Ordering of events/blocks
□ Design (Event related, block, etc.) □ Length and type of baseline	□ Optimization of design? □ Presentation software used?	Ordering of events/blocks Presentation hardware
Condition and stimuli used	□ Specifics of stimuli presented	□ Responses collected
 Timing structure of events 	□ Unique number of stimuli	□ Run order
□ Random/Jittered pattern used	□ Repetition of the stimuli used	
Behavioral Performance		
Number of variables recorded	□ Types of variables recorded	Performance summary statistics
Preprocessing		
Software used	Curatial Elternian	Tatan ita an maati aa
	Spatial filtering Deviation allocations	Intensity correction Device a size service and the service of the servic
 Gradient distortion correction 	 Registration algorithm Native or Standard space 	Physiologic noise removal
	□ Native of Standard space	
DTI Preprocessing		
Eddy current correction	□ Voxel-wise or tract-based?	□ Reference or atlas used
Diffusion estimation models	□ Threshold to define voxels of interest	□ Algorithm used for tractography
fMRI Preprocessing		
□ T ₁ Stabilization volumes	Excluded due to excessive motion	□ Volume censoring
Slice timing correction	□ Function/Structure coregistration	□ Summary measures used for analyse
Motion correction approaches	Temportal filtering	□ Masks or seed regions applied?
Statistical Modeling & Inferen		
Dependent variable	□ Model settings	□ Inference: Multiple testing correction
Independent variables	□ Inference: Contrast/Effect	Machine Learning
Model type	□ Inference: Search region	□ Training procedure
□ Feature extraction	□ Inference: Statistic type	□ Evaluation metrics
Dimension reduction	□ Inference: p-Value computation	□ Significance and fit
Results Reporting		
List of tested and omitted effects	□ Unthresholded maps	□ ICA analyses and # of components
Extracted data	□ Extracted data	□ Graph Theory: Null hypothesis tester
Table of Coordinates	Spatial features	Optimized evaluation metrics
Data Sharing & Reproducibil	ity	
□ Materials shared	Ethics compliance	□ Tools used (names, versions, URLs)
URL and/or Access information	□ Data format (i.e., DICOM, BIDS)	Computational infrastructure

Note: For a complete description of each item, reporting of power analyses, and for alternative neuroimaging methods (i.e. arterial spin labelling, dynamic susceptibility contrast MRI, or combined MRI and EEG, etc.) please refer to the original COBIDAS document at the follow site: (https://www.biorxiv.org/content/10.1101/054262v2). This Table is open and can be copied, pasted, adapted, or re-used in any format.