DoB/Age = Date of birth / Age

1. CDE Variable	DoB/age = date of birth / age		
2. CDE Definition	Age is defined as the time difference between the current		
	date and the date of birth		
3. Recommended	Date of birth: calendar		
instrument for assessment	<u>Age:</u> years.		
	In children \leq 2 years: in months		
	In infants \leq 2 months: in weeks.		
4. Description of measure	<u>DoB</u> : calendar		
	<u>Age</u> : years/months/weeks; numerical.		
5. Permissible values	<u>Date</u> : DD-MMM-YYYY		
	99-999-9999 if unknown		
	<u>Age:</u> Years: 2-120		
	Months: 2-24		
	Weeks: 0-9		
6. Classification:	Basic: age		
Basic/Intermediate/Advanced	Intermediate/advanced: DoB		
7. Procedure	Obtain information from patient/relatives on entry to		
	study.		
8. Comments/Special instructions:			
Recording date of birth will give the most detailed information required for calculation of age			
and is recommended as first choice	e. However, in some studies recording date of birth may		
elicit discussions on a potential vio	ation of privacy legislation and specifically HIPAA		
regulations. In these cases, the ca	culated age should be recorded.		
9. Rationale/justification:			
Recording age in traumatic brain ir	ijury is of great importance. Causes of injury may differ		
per age group and lead to different	types of injury. Age is one of the strongest predictors of		
outcome in TBI, older patients fairing more poorly than younger patients. Although the			
association between age and outcome after TBI is commonly reported in the literature by			
threshold values, in fact the relation between age and outcome is a continuous relation			
which may be approximated by a linear function. We therefore do not recommend to use			
threshold values in reporting on the association between age and outcome after TBI.			
10. References:			
Management and prognosis of severe traumatic brain injury: Age. J Neurotrauma.			
2000;17:573-581.			
Mushkudiani NA Engel DC Stever	berg FW et al Prognostic value of demographic		
characteristics in traumatic brain injury: results from the IMPACT study / Neurotrauma			
Feb 2007:24(2):259-69.			

Recommended time for assessment: on admission to study

<u>Sex</u>

1. CDE Variable	Sex			
2. CDE Definition	Sex describes the state of being male or female, with			
	reference to the biological differences distinguishing			
	organisms on the basis of their reproductive roles.			
3. Recommended	N/A			
instrument for assessment				
4. Description of measure	Binary			
5. Permissible values	Male or female			
6. Classification:	Identical			
Basic/Intermediate/Advanced				
7. Procedure	Self report, interview or visual inspection			
8. Comments/Special instructions:				
In some cases the binary categoris	ation of sex may be more complex, but these cases are			
extremely rare and do not necessit	ate a separate category in the context of TBI studies.			
When in doubt how to classify sex, we recommend to follow the primary/dominant biological				
expression.				
9. Rationale/justification:				
Traumatic brain injury occurs more	e frequently in young adult males, but the male/female			
ratio declines with increasing age,	reaching an approximate 1 to 1 ratio at ages over 65.			
Reports on gender related differences in outcome after TBI have raised interest in hormonal				
influences and generated research into neuroprotective effects of estrogen and				
progesterone. Some studies indicate poorer outcome in females, but others do not show any				
association between gender and outcome following TBI.				
10. References:				
Prognostic value of demographic characteristics in traumatic brain injury: results from the				
IMPACI study. Mushkudiani et al J Neurotrauma 2007;24:329-37.				
Do women fare worse: a meta-analysis of gender differences in traumatic brain injury				
outcome. Farace et al, J Neurosurg 2000;93:539-545.				

Recommended time for assessment: on admission to study

Handed = Handedness

1. CDE Variable	Handed = handedness	
2. CDE Definition	Handedness is defined as the preference for using one or	
	the other hand for motor skills (such as writing).	
3. Recommended	N/A	
instrument for assessment		
4. Description of measure	Categorical	
5. Permissible values	Righthanded/lefthanded/both (ambidexter)/unknown	
6. Classification:	Advanced	
Basic/Intermediate/Advanced		
7. Procedure	Obtain information from patient/relatives on entry to	
	study	
8. Commonts/Special instructions:		

8. Comments/Special instructions:

9. Rationale/justification:

Handedness is an attribute of humans defined by their unequal distribution of fine motor skill between the left and right hand, and reflects dominance of the contralateral cerebral hemisphere.

10. References:

Recommended time for assessment: on admission to study

Race and Ethnicity

1. CDE Variable	Race and ethnici	ty			
2. CDE Definition	Race and ethnicity are not easily defined. The terms are often used interchangeably. The terms do not constitute a genetic or scientific categorisation, but rather reflect a classification on basis of common history, nationality or geographic distribution. In these terms race nor ethnicity can therefore not be approximated to biological or genetic differences.				
3. Recommended	Exploratory google and pubmed searches have not				
instrument for assessment	revealed interna classification of r we follow the red Office of Manage	tional or global standa race. In the absence o commendations as des ement and Budget in t	rds for f global standards, scribed by the he US.		
4. Description of measure	Categorical. Race is common the US a further and Native Hawa	ly classified as: Asian, categorisation of India aiian/Pacific Islander is	Black, White. In an, Alaska Native s required.		
5. Permissible values	Race (multiple entries permitted)				
	Basic	Intermediate	Advanced		
	Indian (American) Alaska Native/ Inuit Asian Black Native Hawaiian/ Pacific Islander White N/A Unknown	Indian (American) North American Indian South/central American Indian <u>Alaska Native / Inuit</u> Alaska Native Inuit <u>Asian</u> South Asian Far Eastern Asian <u>Black</u> African American <u>Afro-Caribbean</u> <u>Native Hawaiian/ Pacific Islander</u> Native Hawaiian Pacific Islander <u>White</u> North American South American European Middle Eastern North African Australian <u>N/A</u> Unknown	Additional to the intermediate classification, add country of birth. <u>N/A</u> <u>Unknown</u>		
	Hispanic or Latino				
	Not Hispanic or La	tino			

6. Classification:	See under 5.
Basic/Intermediate/Advanced	
7. Procedure	Not applicable

8. Comments/Special instructions:

In subjects of multiracial origin, multiple categories may be marked. Collecting information on race may not be allowed in some countries for concerns related to discrimination. In other however, these concerns are considered to the contrary a reason for recording race in order to guarantee equal access to care*; for those situations in which recording race may not be allowed by local authorities, we recommend to score the option: 'not allowed'. In the US, recording whether subject is of Hispanic or Latino origin is mandated by the OMB.

* Investigators receiving funding from the US National Institutes of Health (NIH) are required to report the number of subjects enrolled on an annual basis using the ethnic and racial categories listed below.

- Ethnic Categories = Hispanic or Latino; Not Hispanic or Latino; Unknown (individuals not reporting ethnicity)
- Racial Categories = American Indian/Alaska Native; Asian; Native Hawaiian or Other Pacific Islander; Black or African American; White; More Than One Race; Unknown or Not Reported

9. Rationale/justification:

Recording race in TBI studies is considered important for the following reasons:

1. Comparison of populations can help researchers interpret changes in disease trends and assess whether the health of minority groups deviates from expectations. These differences in outcome in some racial groups may reflect disparities in pre-injury health and/or access to health care in the acute phase and during rehabilitation after TBI. These data can therefore inform policy changes aimed at insuring equal access to health care.

2. Despite the dominant impact of interindividual genetic variation, racial differences may explain some differences in predisposition to disease, pathophysiology, clinical outcome or therapy response. The latter may be due to racial variations in drug, pharmacokinetics or pharmacodynamics.

10. References:

OMB mandate: www.whitehouse.gov/omb/fedreg/ombdir15.html

Jorde LB and Wooding SP. Genetic variation, classification and "race". *Nature Genetics.* 2004;36(11):S28-S33

Bhopal R and Donaldson L. White, European, Western, Caucasian, or What? Inappropriate labelling in Research on Race, Ethnicity, and Health. *Amer J of Publ Health.* 1998;88:1303-1307.