==					
Co	pyright	•	eijing Normal University		
== Th	The following publication should be referenced when using this atlas:				
Ta	o, S., Dong, Q., He, Y.	. (2019) Unbiased ag	a, Wei., Wang, Y., Qin, S., ge-specific structural brain s://doi.org/10.1016/j.neuro		
	ore templates will contact tengdazh	-	ersion. For customized te	emplates or any questions,	
ch	escriptions: npd_asym_06.0-07.0 eighted).	_t1w.nii.gz: the asy	mmetric brain templates	at 6 – 7 years old (T1	
	npd_asym_head_06.0 1 weighted).	0-12.0_t1w.nii.gz: t	he asymmetric head temp	olates at 6 – 12 years old	
chnpd_asym_female_06.0-12.0_t1w.nii.gz: the asymmetric female brain templates at $6-12$ years old (T1 weighted).					
ch			metric brain templates at	6 – 12 years old (T1	
== CF		ears)	Version 1.4		
1)	Symmetric template	es for six age sub-g	roups are included in the	atlases	
== CF	======================================	ears)	Version 1.3		
1)	-	• •		veighed templates for the are included in the atlases.	
== CF		ears)	Version 1.2		
 The averaged head template, the symmetric template, and the female/male to included in the current atlases. 					
2)	The atlas files were	renamed in a recog	gnizable form.		
== CF	HN-PD Atlas (6-12 ye	ears)	Version 1.1		
==					

1) The tissue probability maps of GM, WM and CSF and the T2 weighed brain templates for

- six age sub-groups are included in the atlases.
- 2) The T2 weighed brain templates are updated by the N4 correction.
- 3) Some precision losses of the tissue probability maps due to the data format conversion have been fixed.

CHN-PD Atlas (6-12 years) Version 1.0

Population information

Brain scans from totally 328 healthy children (175 boys) were collected by a 3.0T Siemens Prisma scanner at Peking University. These participants were divided into the following 6 age groups:

- Year 6.0-7.0: 23 children (9 boys)

- Year 7.0-8.0: 53 children (28 boys)

- Year 8.0-9.0: 99 children (57 boys)

- Year 9.0-10.0: 87 children (45 boys)

- Year 10.0-11.0: 51 children (28 boys)

- Year 11.0-12.0: 34 children (18 boys)

Atlases Construction

We conduct an unbiased hierarchical template generation pipeline proposed by Vladimir Fonov and colleagues (Fonov et al., 2011) which makes our template compatible with the ICBM-152 templates. The details of the construction process can be found in https://doi.org/10.1016/j.neuroimage.2019.01.006

Imaging Protocol

T1-weighted images: repetition time (TR) = 2530 ms, echo time (TE) = 2.98 ms, inversion time (TI) = 1100 ms, flip angle (FA) = 7 $^{\circ}$, acquisition matrix = 256 × 224, field of view (FOV) = 256 × 224 mm², number of slices = 192, in-plane resolution = 1.0 × 1.0 mm, slice thickness = 1.0 mm, bandwidth (BW) = 240 Hz/Px, scan time = 5 minutes and 58 seconds. T2-weighted images: 3D T2-SPACE sequence, TR = 3200 ms, TE = 564 ms, acquisition matrix = 320 × 320, FOV = 224 × 224 mm², slices = 256, in-plane resolution = 0.7 × 0.7 mm, slice thickness = 0.7 mm, BW = 744 Hz/Px, and scan time = 8 minutes and 24 seconds.