

Resource Summary Report

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DWI/DTI Quality Control Tool: DTIPrep

RRID:SCR_009562

Type: Tool

Proper Citation

DWI/DTI Quality Control Tool: DTIPrep (RRID:SCR_009562)

Resource Information

URL: <https://github.com/hjmjohnson/DTIPrep>

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Description: DTIPrep performs a Study-specific Protocol based automatic pipeline for DWI/DTI quality control and preparation. This is both a GUI and command line tool. The configurable pipeline includes image/diffusion information check, padding/Cropping of data, slice-wise, interlace-wise and gradient-wise intensity and motion check, head motion and Eddy current artifact correction, and DTI computing.

Abbreviations: DTIPrep

Resource Type: software application, software resource

Keywords: c++, linux, microsoft, magnetic resonance, nrrd, posix/unix-like, win32 (ms windows), windows, windows xp, dti

Availability: BSD License

Resource Name: DWI/DTI Quality Control Tool: DTIPrep

Resource ID: SCR_009562

Alternate IDs: nlx_155742

Alternate URLs: <http://www.nitrc.org/projects/dtiprep>

Record Creation Time: 20220129T080253+0000

Record Last Update: 20260821T042804+0000

Ratings and Alerts

No rating or validation information has been found for DWI/DTI Quality Control Tool: DTIPrep.

No alerts have been found for DWI/DTI Quality Control Tool: DTIPrep.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Kim I, et al. (2026) Long-term associations between perinatal factors and white matter microstructure at 8-10?years. *Frontiers in human neuroscience*, 20, 1729276.

Kim ES, et al. (2026) Tract-specific white matter microstructure associated with early cognitive development in infants. *Neuroimage. Reports*, 6(2), 100336.

Cao D, et al. (2025) Free Water Corrected Diffusion Magnetic Resonance Imaging Reveals Microstructural Alterations in Corpus Callosum Subregions of Preschool Children With Autism. *Human brain mapping*, 46(18), e70435.

Nevarez-Brewster M, et al. (2024) Association between prenatal maternal sleep quality, neonatal uncinate fasciculus white matter, and infant negative emotionality. *EBioMedicine*, 109, 105384.