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## **Analysis of white matter characteristics with tract-based spatial statistics according to diffusion tensor imaging in early Parkinson's disease**

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### **Highlights**

Our results showed there was extensive microstructure damage in the corpus callosum of early PD patients. Corpus callosum is involved in the regulation of bilateral limb movement and cognition. Thus, the bilateral motor coordination dysfunction or cognition impairment in PD patients may be ascribed to the extensive damage to the corpus callosum. Kamagata et al [39] found, when compared with normal controls, the FA reduced significantly in the genu of corpus callosum, cognition score was related to the FA of genu of corpus callous, and in PD patients the FA of corpus callosum was associated with the cognition score.

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