ON-LINE FIG 1. Baseline between-group TBSS analyses at different anatomic levels (z coordinate in Montreal Neurological Institute space). TBSS revealed changes in all DTI-derived indices in several WM tracts of the cerebral hemispheres (corpus callosum, brain stem, superior and middle cerebellar peduncles, and cerebellum) and of the thalami of patients with SCA2 that were significant compared with those of the controls. The pattern of DTI changes consisted of increased MD (A) and RD (F) and decreased FA (B) and MO (C). AD was decreased (D) in the right internal capsule and increased (E) in the brain stem, cerebellum, and cerebellar peduncles and in the WM underlying the right primary sensorimotor cortex and frontoparietal WM, corpus callosum, and thalami. All but the AD changes were symmetric. Some of the AD changes, notably the decrease in the anterior limb of the internal capsule and the increase in callosal and paracallosal WM and the WM underlying the primary sensorimotor cortex, were localized in the right cerebral hemisphere.