**SSPLs:**

The previously described analysis allows assessing the immediate impact a focal lesion has on direct connections between two given brain regions. However, it fails to account for indirect connections that are achieved via a number of direct connections between intermediary regions. For that reason, we also investigated the increase in ROI-to-ROI shortest structural path lengths (SSPLs). The SSPL score of a parcel pair expresses how many direct connections must be traversed to establish a structural pathway between them, with parcel pairs that share a direct connection having a score of 1. Focal lesions may therefore not only cause direct disconnections, but also indirect disconnections and an associated increase in SSPLs if now a “detour” via other intermediary parcels must be used to maintain the connection ([Griffis et al., 2020](#griffis2020) & [2021](#griffis2021LQT)). (is this even needed?)