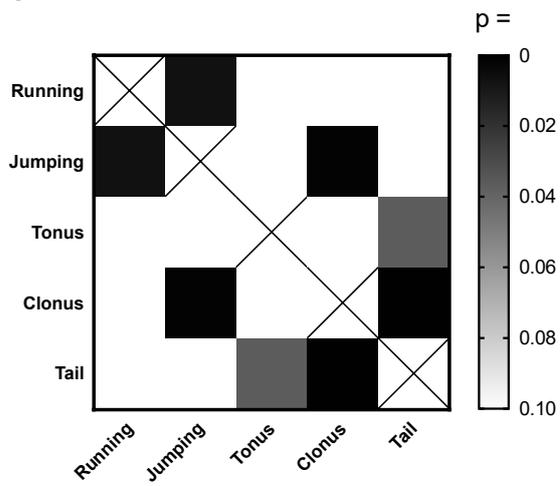


Supplementary Materials

A



B

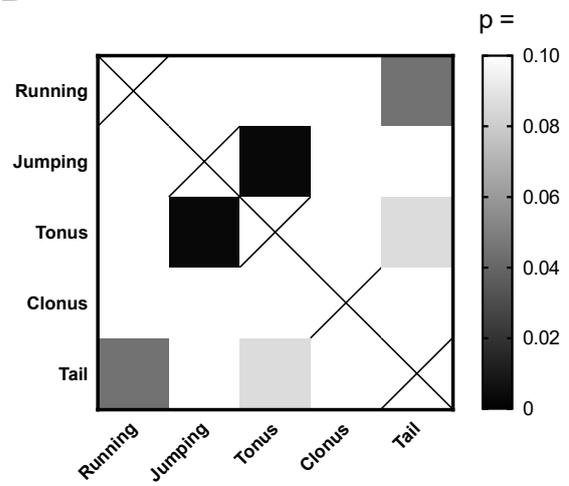


Figure S1. Correlations of immediate seizure episode elements. A – Correlations of immediate seizures elements duration. Duration of jumping correlated with duration of running and clonus. Duration of tail wriggling correlated with tonus and clonus. B – Representation of seizure episode elements (Fischer exact test). In rats with jumping tonic seizures appeared more frequently.

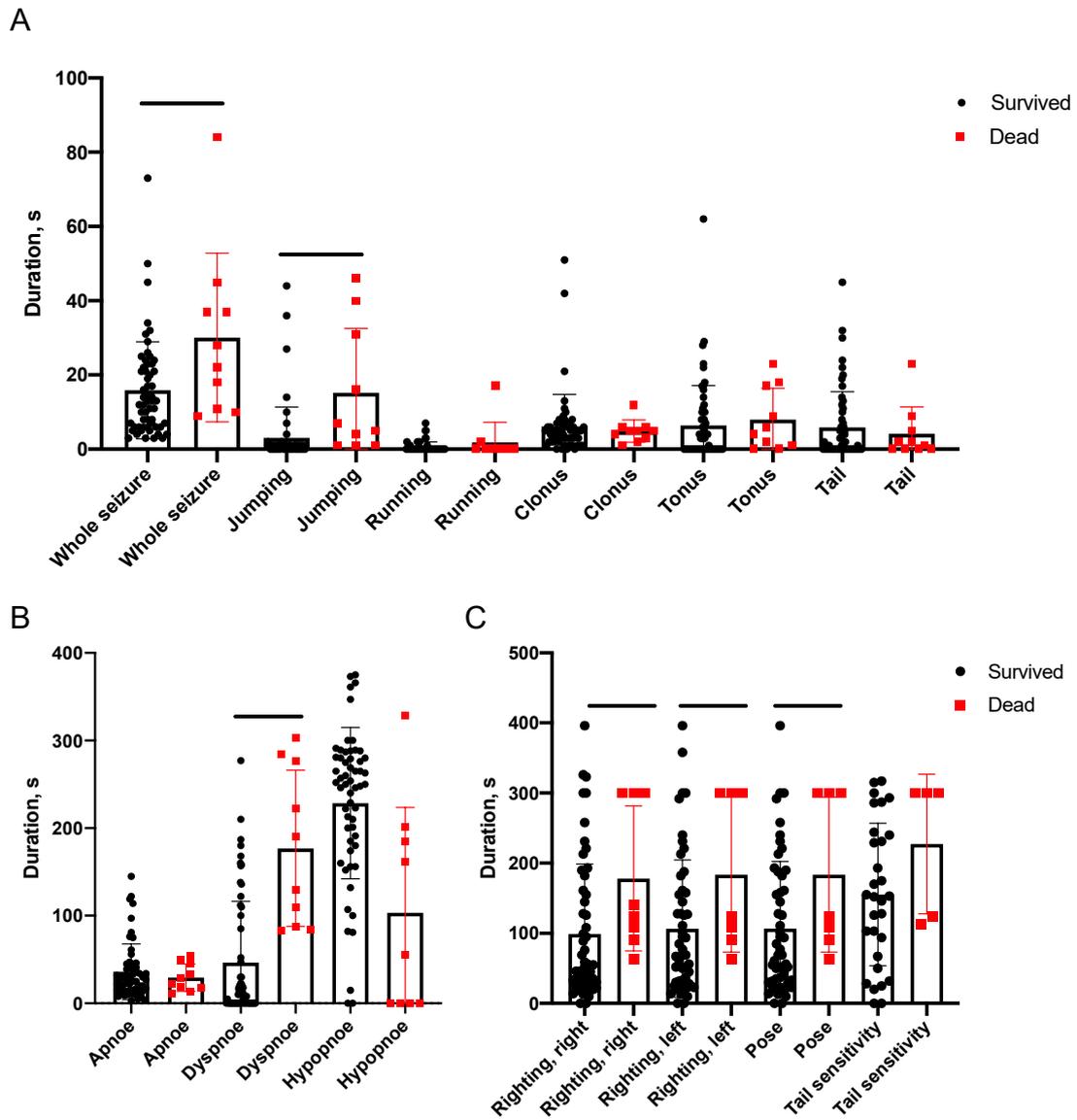


Figure S2. Mortality predictors. A – Longer duration of seizures and jumping was higher in animals which died. B – Dyspnoea was longer in rats which died. C – Recovery of reflexes were longer in rats which died. * - $p < 0.05$, Mann-Whitney test.

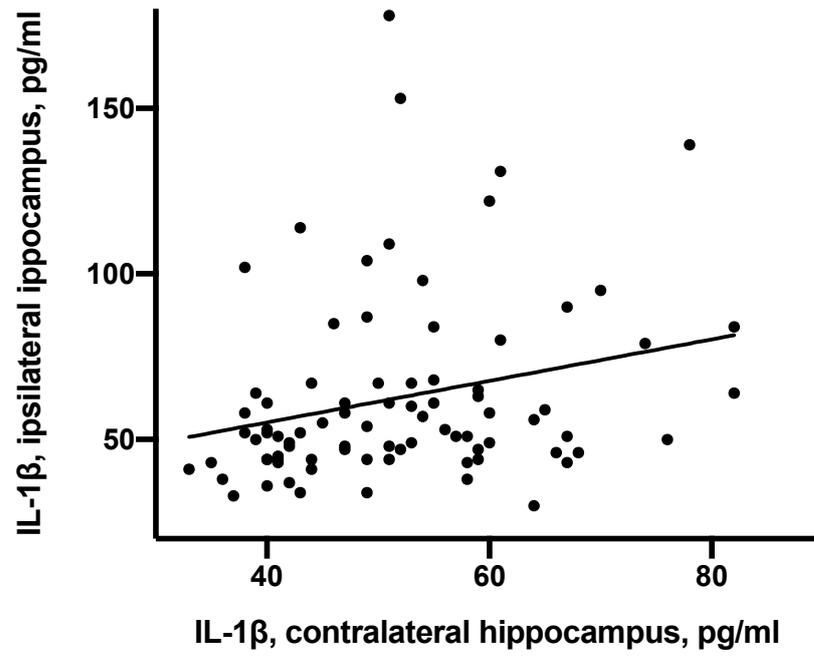


Figure S3. Correlation of IL-1 β in the ipsilateral and contralateral hippocampus.

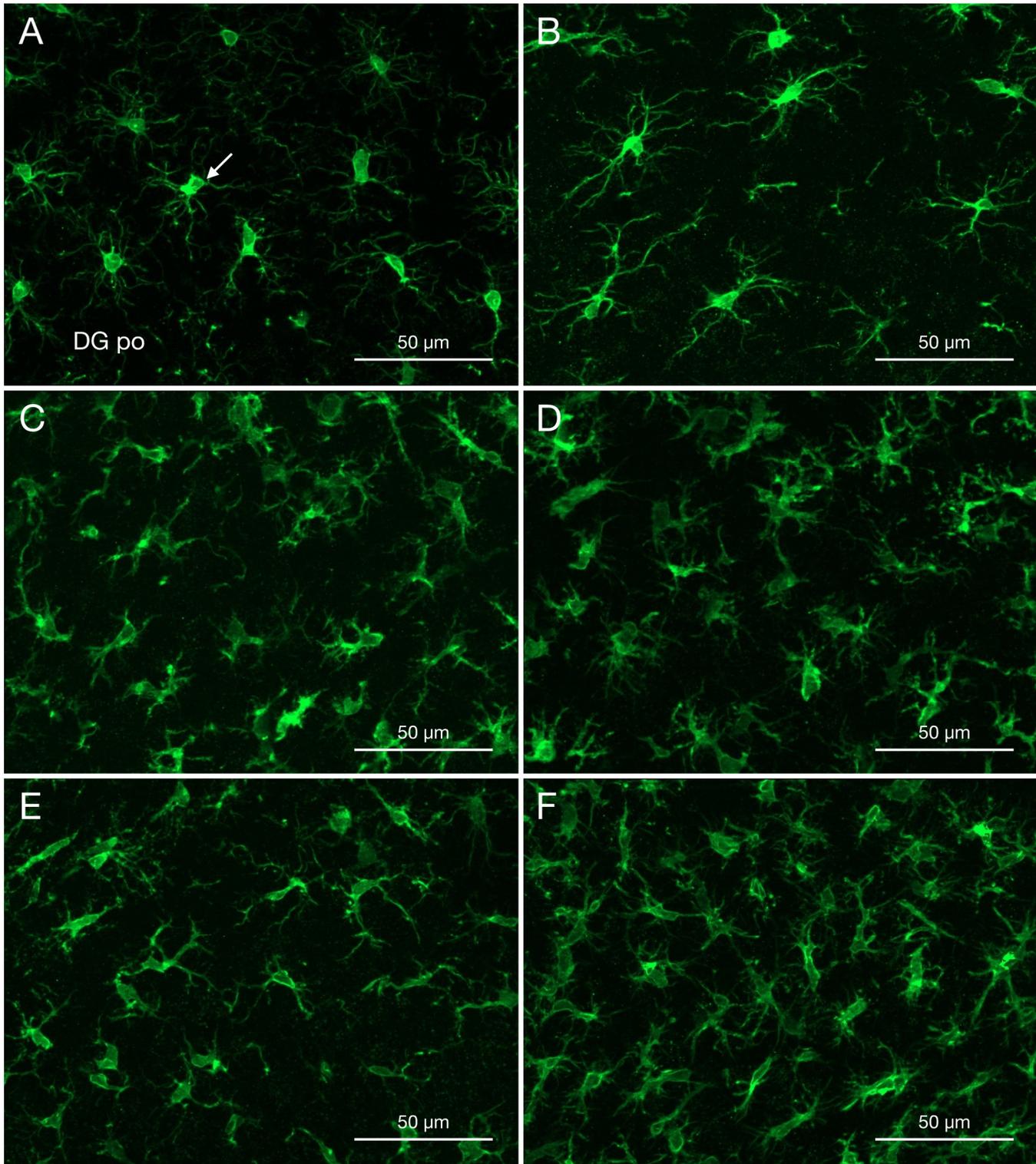


Figure S4. Microglial changes in the hippocampus. A – control, right hemisphere. B – Sham operated rats, day 7 after craniotomy. C, D – contralateral and ipsilateral hippocampus (bilateral changes in microglial cell morphology), day 3 after TBI. E, F - contralateral and ipsilateral hippocampus, day 7 after TBI (increasing in microglial cell density s bilaterally). Anti-Iba-1 staining. DG – dentate gyrus, po – polymorph layer. The arrow shows microglial cell.

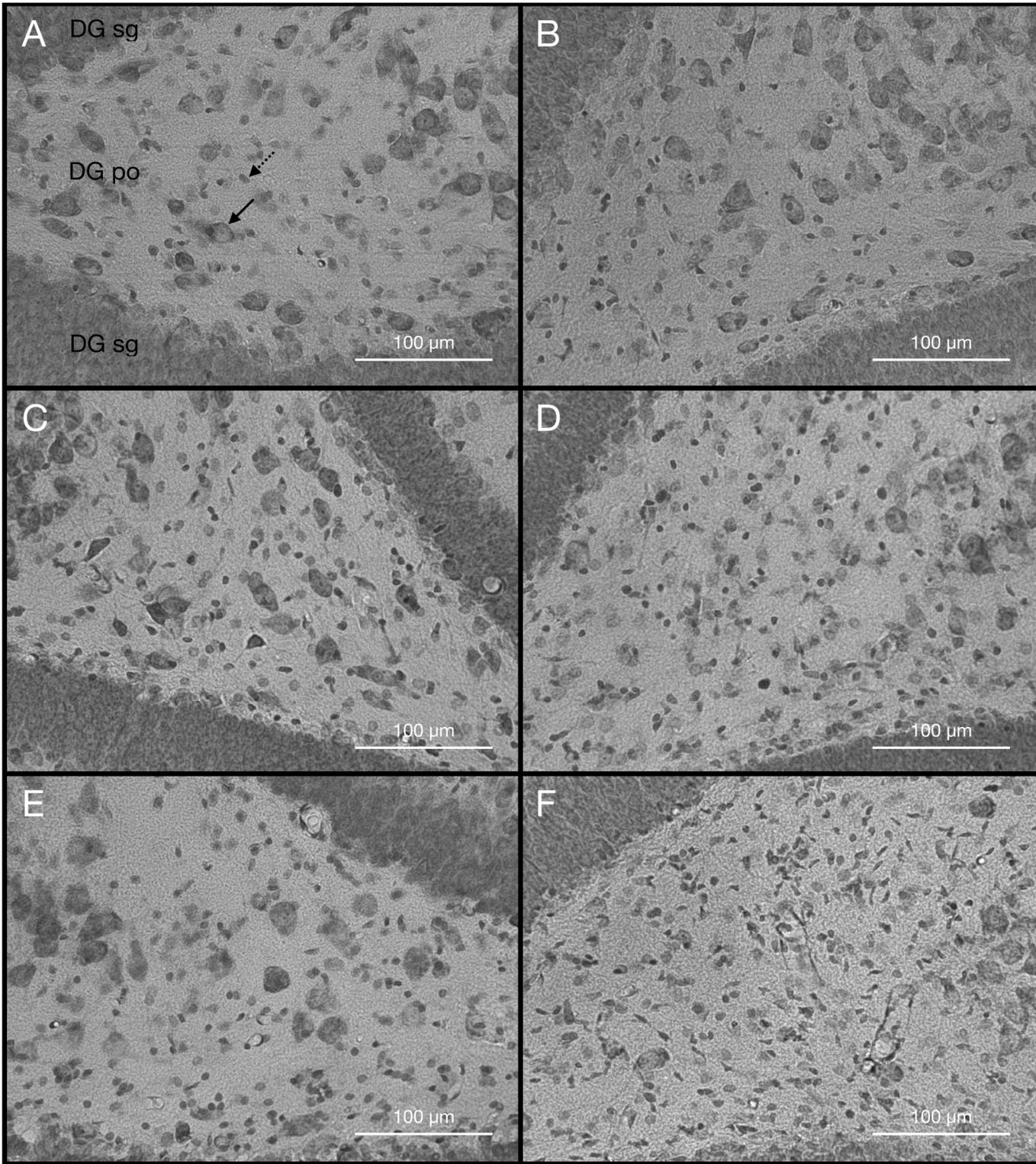


Figure S5. Neuronal cell loss in the hippocampus. A – control, right hemisphere. B – Sham operated rats, day 7 after craniotomy. C, D – contralateral and ipsilateral hippocampus (ipsilateral cell loss), day 3 after TBI. E, F - contralateral and ipsilateral hippocampus, day 7 after TBI (bilateral cell loss). Nissl staining. DG – dentate gyrus, sg – granular cell layer, po – polymorph layer. Solid arrow shows neurons, dotted arrow shows nucleus of glial cell.

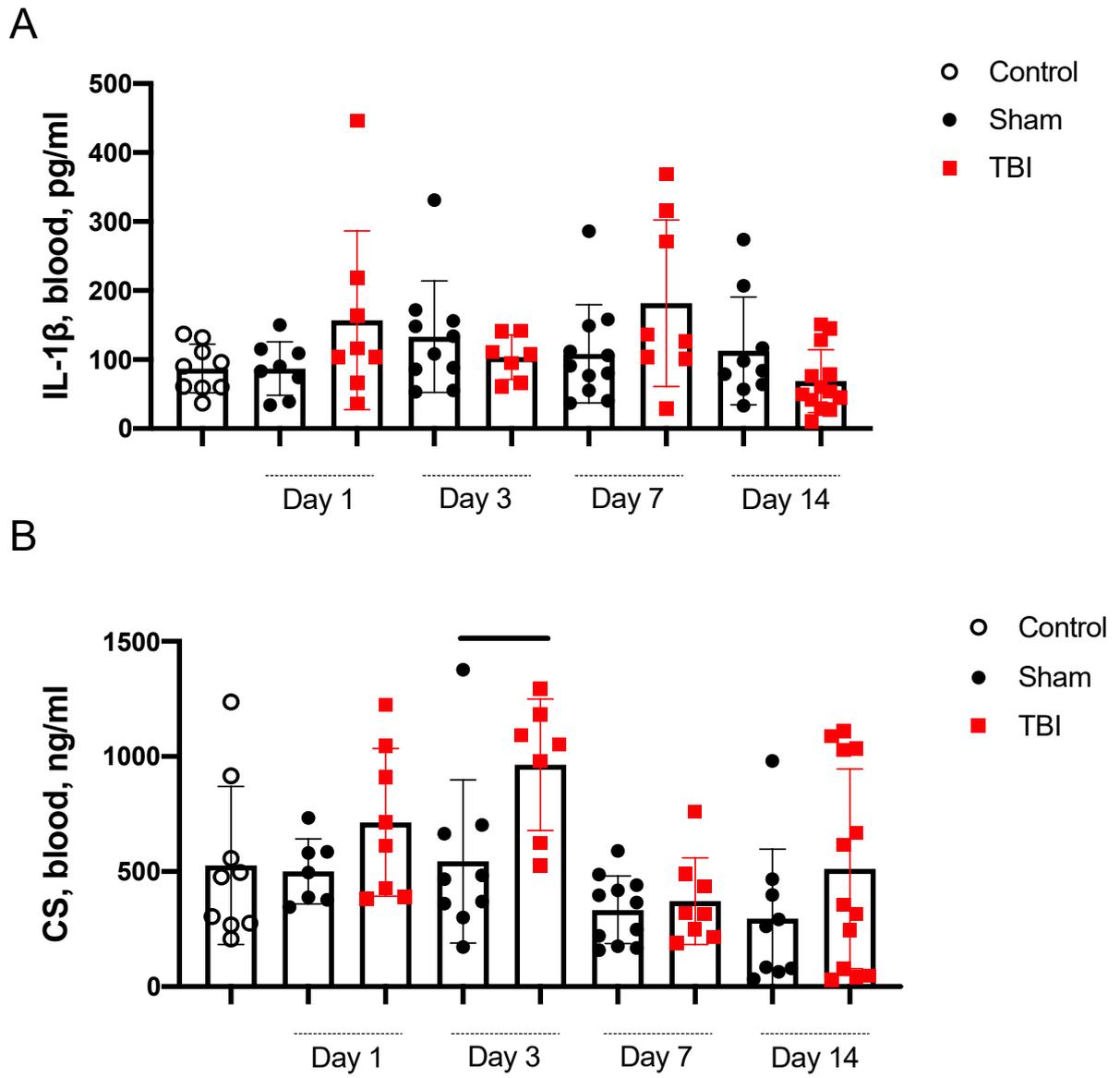


Figure S6. IL-1 β and CS in blood. A – IL-1 β in blood does not change significantly after TBI. B – CS in blood is elevated on day 3 after TBI.