Introduction:
CREACTIVE multinational project, follow patients with moderate-to-severe traumatic brain injury (TBI), as part of the global InTBIR initiative. Patients outcome are measured in terms of injury-related disability and quality of life at six months post injury. CREACTKids is the pediatric sub study. Here we present data collected from three pediatric intensive care units (PICU) from Israel;

Methods:
Common Data Elements endorsed by InTBIR are collected, Clinical data is collected via computerized software. Children outcome are followed-up with separate Tool-box. The tool-box assesses impairment and disability in sleep, behavioral, emotional and neurocognitive domains using both questionnaires (GOSe-Peds, Peds-QL 4.0, Strengths & Difficulties, Temperament, UCLA-RI) and computer based neurocognitive tasks. Outcome is assessed during meeting 6 months post injury. We present two years descriptive results and TBI-patients full outcome assessment.

Results:
2428 patients were admitted to three PICUs during 2016-2017, 209(8.6%) due to TBI. 43 completed 6-month ambulatory follow-up. Follow-up shows most children GOSe-Peds score was upper moderate disability or higher, However, a marked cognitive impairment (mainly in memory and inhibition) was found: mean score of TBI patient’s Corsi task was 3.18±2 while normal controls 5.19±2.3. Patients correct answers in Go/No go task was 48.08±9.5 while normal control’s mean is 120.1±31.3. Results also reveals an increase in emotional and behavioral problems (compared to status before injury). More than 50% of patients show at least one significant symptoms of post traumatic stress disorder (PTSD).

Conclusion:
Our results describe the heavy burden of TBI on Pediatric patients. Most patients showed reasonable physical recovery (as per GOSe-Peds) but with alarming Socio-Cognitive disability. We suggest better diagnosis and early intervention to improve these patients’ outcome

References:
On Behalf of the CREACTIVE Consortium