Brain Injury Research:

The Kessler Institute, in collaboration with the Kessler Foundation, is involved in important research that will help to improve patient care and outcomes. Any study that is conducted is approved and monitored by an Institutional Review Board (IRB), a group of people who ensure that research is performed confidentially, safely and ethically. For more information, please contact us at **biresearch@kessler-rehab.com.**

Thank you.

TITLE	DESCRIPTION
Northern New Jersey Traumatic Brain Injury Model System	The purpose of the NNJTBIMS is to collect and submit acute, rehabilitation and follow-up data on TBI patients who received care in the system following injury. Participating centers include Chester, Saddle Brook and West Orange campuses.
Cognitive Reserve in Traumatic Brain Injury	The goal of the study is to measure injury severity so that the moderating effect of cognitive reserve on the relationship between injury severity and cognitive functioning can be established. Participating center: West Orange campus.
Spatial Neglect after Traumatic Brain Injury	The purpose of this inpatient project is to examine the prevalence of spatial neglect in person with moderate-to-severe TBI. Both paper-and-pencil neuropsychological tests and observational functional assessments will be used to detect the presence of spatial neglect. Participating centers include Chester, Saddle Brook and West Orange campuses.
Speed of Processing Training to Improve Cognition in TBI: A Randomized Clinical Trial	The purpose of this research study is to investigate the effectiveness of a technique designed to improve processing speed (i.e. the amount of time it takes to process information) in a Traumatic Brain Injury (TBI) population. Participating center: West Orange campus.
Impact of Cranioplasty Surgery on Recovery Following Brain Injury	This exploratory inpatient retrospective pilot study seeks to measure the impact cranioplasty surgery has on recovery from brain injury. Participating centers include: Chester, Saddle Brook and West Orange campuses.
Sleep, Procedural Learning, and Therapeutic Engagement Among Inpatients with Brain Injury in an Acute Rehabilitation Hospital	The proposed study will examine the relationship between sleep and procedural memory consolidation among individuals with TBI who are inpatients in an intensive rehabilitation program. Participating center: West Orange campus.
Remediation of Emotional Deficits in Multiple Sclerosis and Traumatic Brain Injury: A Pilot Study	The purpose of this research study is to examine the effects of an emotional processing training program in persons with Multiple Sclerosis (MS) and Traumatic Brain Injury (TBI). The study will examine not only the effects of the intervention on emotional processing abilities, but also on mood, processing, and quality of life. Participating centers include Chester, Saddle Brook and West Orange campuses.
Improving learning in Spanish speakers with TBI or MS: A Pilot Trial	The purpose of this study is to examine the effectiveness of a memory retraining program culturally adapted for Spanish Speakers. Participating center: West Orange campus.
NIH Caregiver Study	This study will develop a quality of life measure specific to TBI caregivers. Participating center: West Orange campus.

Chemotherapy Effect on Brain Structure, Neurphysiology and Psychomotor Behavior for Breast Cancer Patients	The study examines the effects of chemotherapy on the brain and how the changes in the brain affect one's ability to move one's arms and fingers. Participating center: West Orange campus.
The Longitudinal Examination of the Relationship between White Matter Pathology and Cognitive Impairment Imaging in TBI using Diffusion Tenor Imaging	The purpose of this study is to examine cognitive outcome in individuals with TBI and how that relates to white matter health in the brain over the course of 3 years. Participating centers include Chester, Saddle Brook and West Orange campuses.
Mejorando el aprendizaje en personas de habla española con Lesión Cerebral Traumática o Esclerosis Múltiple (Improving learning in Spanish speakers with TBI or MS: A Pilot Trial)	Este estudio de investigación se está realizando para examinar la eficacia de un protocolo para el re-entrenamiento de la memoria con personas de habla española, que hayan tenido una Lesión Cerebral Traumática (TBI), o que hayan sido diagnosticadas con la condición neurológica de esclerosis múltiple (MS). Centro participante: West Orange. (The purpose of this study is to examine the effectiveness of a memory retraining program adapted for Spanish Speakers with TBI or MS. Participating center: West Orange campus.)
Decision-Making Processes in Individuals with TBI and MS	This study investigates decision-making processes in individuals with multiple sclerosis and traumatic brain injury. While in the scanner, participants are asked to perform a task where they have to guess a card number. If they guess correctly they receive a bonus payment in addition to the base pay for participation.
The Development of a Virtual Reality Program to Improve Executive Functioning in Individuals with TBI	The purpose of this research study is to develop virtual reality software to improve attention, problem solving, multi-tasking for individuals with Traumatic Brain Injury