Traumatic Brain Injury Rehabilitation: **Creating the Ideal Program**

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Biology

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I plan to examine rehabilitation techniques used to treat the effects of traumatic brain injuries for my senior researching and thesis. My thesis is that there is a prejudice toward surgery and other invasive procedures in current approaches to brain I hope to get the injury rehabilitation. Physical therapy and other noninvasive rehabilitation techniques offer a fertile arena for improv- discuss rehabilitaing the functioning and prognosis for brain injury patients.

Through examination of articles written by neurosci- local neurologists, entists, physical therapists, and other medical professionals, I will examine rehabilitation techniques used in physical therapy with brain injured patients. My thesis will include an introduction to the psychophysiology of the brain and a section on the different types of traumatic brain injuries and how they are diagnosed and treated. Traumatic brain injuries (TBIs) include concussions, contusions, coup-contrecoup (contusion found at injury site and opposite side of therapists approach brain), diffuse axonal (sudden movement causing nerve tearing), and penetration. Acute versus chronic injuries will be examined, along with mild, moderate, and severe injuries.

In addition to researching and writing my thesis, I hope physical therapy to get the opportunity to discuss rehabilitation techniques with in treatment. To local neurologists, physical therapists, counselors, psycholo- expand this study, I will send questionnaires to representative gists, and neurosurgeons. Using these interviews, I hope to gain insurance carriers to explicate their policies and influence. information on how physical therapists approach brain injury My hypothesis is that there are biases about which intervenpatients and how neurologists interface with physical therapy—tions are supported. Written accounts and case studies of to representative insurance carriers to explicate their policies rehabilitation techniques they received during treatment, and and influence. My hypothesis is that there are biases about whether their recovery had been successful. which interventions are supported. Written accounts and case

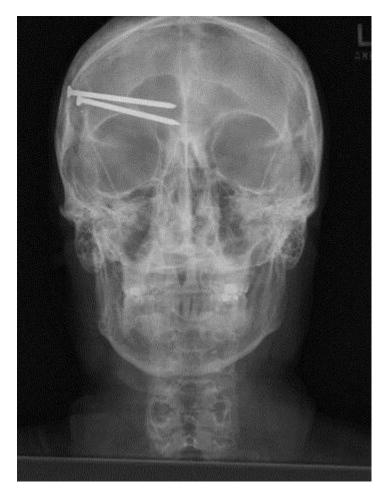
al perspective outside the realm of western medicine. I hope Australia, the United States, India, and Japan indicates differences across the world and within certain medical professionals. I have read articles on light therapy, stem cell therapy, acupressure, herbal medicine, vocational rehabilitation, hyperbaric therapy, and other biomedical techniques are reported to improve the functioning state of traumatic brain injury patients in other areas of the world. I will also address the risks involved as it affects why some rehabilitation techniques are supported. itation program for patients with traumatic brain injury.

By comparing and contrasting different techniques from throughout the globe and speaking with a variety of medical professionals, I hope to determine the ideal rehabilitation program for patients with traumatic brain injury.

I plan to examine rehabilitation techniques used to treat the effects of traumatic brain injuries for my senior thesis. My thesis is that there is a prejudice toward surgery and other invasive procedures in current approaches to brain injury rehabilitation. Physical therapy and other noninvasive rehabilitation techniques offer a fertile arena for improving the functioning and prognosis for brain injury patients.

Through examination of articles written by neuroscientists, physical therapists, and other medical professionals, I will examine rehabilitation techniques used in physical therapy with brain injured patients. My thesis will include an introduction to the psychophysiology of the brain and a section on the different types of traumatic brain injuries and how they are diagnosed and treated. Traumatic brain injuries (TBIs) include concussions, contusions, coup-contrecoup (contusion found at injury site and opposite side of brain), diffuse axonal (sudden movement causing nerve tearing), and penetration. Acute versus chronic injuries will be examined, along with mild, moderate, and severe injuries.

In addition to writing my thesis, opportunity to tion techniques with physical therapists, counselors, psychologists, and neurosurgeons. Using these interviews, I hope to gain information on how physical brain injury patients and how neurologists interface with



in treatment. To expand this study, I will send questionnaires brain injury patients will be incorporated. I will document the

In addition to evaluating treatment of traumatic brain studies of brain injury patients will be incorporated. I will injuries in the United States, I plan to articulate an internationdocument the rehabilitation techniques they received during al perspective outside the realm of western medicine. I hope treatment, and whether their recovery had been successful. to examine and compare different theories and approaches to In addition to evaluating treatment of traumatic brain brain injuries across cultures. Previous exposure to articles injuries in the United States, I plan to articulate an internation- on techniques for treating brain injuries in China, France, Australia, the United States, India, and Japan indicates differto examine and compare different theories and approaches to ences across the world and within certain medical professionbrain injuries across cultures. Previous exposure to articles als. I have read articles on light therapy, stem cell therapy, on techniques for treating brain injuries in China, France, acupressure, herbal medicine, vocational rehabilitation, hyperbaric therapy, and other biomedical techniques are reported to improve the functioning state of traumatic brain injury patients in other areas of the world. I will also address the risks involved with specific modes of rehabilitation along with survival rates of types of injuries. I will also examine the issue of expense as it affects why some rehabilitation techniques are supported.

By comparing and contrasting different techniques with specific modes of rehabilitation along with survival rates from throughout the globe and speaking with a variety of of types of injuries. I will also examine the issue of expense medical professionals, I hope to determine the ideal rehabil-