| **Study Description** | **Inclusion/Exclusion Criteria** | **Demographic/ Preinjury Characteristics** | **TBI Characteristics** | **Postinjury Characteristics** |
| --- | --- | --- | --- | --- |
| **Bell, 200513**  **Moderate to Severe TBI** | **Telephone Counseling**  **Theory/Model:**  Modeled after validated telephone interventions in chronic care, smoking cessation, depression  **Program Type:**  Post-rehabilitation telephone contact  **Setting:** Patient home  **Delivery:** Scheduled phone calls with individualized mail supplements | **Description:** Scheduled phone calls made “research care manager to randomly allocated post-rehabilitation discharge patients. Calls were comprised of 3 basic elements: Follow-up of previously stated concerns, patient or family member stated current concerns, research care manager determined level of intervention in response to patient’s concern.  **Coordination:** NR  **Disciplines:** NR  **Components:** Giving information, mentoring, goal-setting, reassurance, modeling problem-solving, referral to community resources, triaging to regional or tertiary center if local resources unavailable  **Therapy hours/week:** 30-45 minutes, weeks 2, 4 and months 2, 3, 5, 7, and 9 post-rehabiltation  **Duration:** 9 months  **Total therapy hours:** NR  **Manualized:** Yes, described in detail in previous publication  **Staff Training:** NR **Fidelity Checks:** NR | **Bell, et al, 2005**  **[**15895327**]**  **Moderate to Severe TBI** | **Telephone Counseling**  **Theory/Model:**  Modeled after validated telephone interventions in chronic care, smoking cessation, depression  **Program Type:**  Post-rehabilitation telephone contact  **Setting:** Patient home  **Delivery:** Scheduled phone calls with individualized mail supplements |
| **Cicerone, 200411**    **Study design**  Prospective Cohort  **Sample size**  57  **Location**  Edison, NJ  **Setting**  Community-based, postacute outpatient brain injury rehabilitation program  **Interventions**   * Intensive cognitive rehabilitation group (ICRP) (n=27) * (Control) Standard neurorehabilitation (SRP) (n=29)   **Primary outcomes**  CIQ | **Inclusion criteria**   * medically stable * independent in basic self-care skills * cognitive ability to participate in treatment * medical documentation TBI * 18 or older * adequate language expression and comprehension   **Exclusion criteria**   * current substance use or psychiatric disturbance precluding effective treatment * no available family member or person to participate in program | **Age (years±SD)**   * ICRP 38±10.6 * SRP 37±12.0   **Gender (% male)**   * ICRP 63% * SRP 79%   **Race/ethnicity**  NR  **Education (years±SD)**   * ICRP 13.2±1.7 * SRP 13.0±2.2   **Employment status**  **(% competitively employed)**   * ICRP 96 * SRP 97   **Income**  NR  **Marital status**  NR  **Military/Veteran**  NR  **Insurance status**  NR  **Prior TBI**  NR  **Preexisting**  **psychiatric conditions**  NR | **Severity**  **(% moderate/severe)**   * ICRP 89% * SRP 90%   **Severity definition**  NR  **Time since injury**  **(months±SD)**   * ICRP 33.9±4.8 * SRP 4.8±9.5   **TBI etiology**  NR  **Area of brain injured**  NR  **Other injury**  **characteristics**  NR | **Comorbidities**  Psychiatric comorbidities not described, although subjects identified with current substance use or psychiatric disturbance that would preclude effective treatment for their cognitive deficits were not admitted. Psychiatric subjects were guided to the intensive cognitive group.  **Compensation seeking**  NR  **Acute**  **rehabilitation history**  NR  **Concomitant treatment**  NR |
| **Cicerone, 20081**  **Study design** RCT  **Sample size** 68  **Location** Edison, NJ  **Setting** Postacute brain injury rehabilitation center in suburban hospital  **Interventions**   * Intensive cognitive rehabilitation (ICRP) * Standard neurorehabilitation (STD)   **Primayr Outcomes**   * CIQ * Vocational Integration Scale (community-based employment)   **Secondary Outcomes**   * Perceived Quality of Life scale (PQOL) | **Inclusion Criteria:**   * Medical documentation of TBI based on primary source within 24 hours of injury * At least 3 months postinjury * 18-62 years of age * Adequate language expression and comprehension (English) * Judged to require at least 4 months comprehensive treatment * Clinically appropriate for either arm of treatment * Capable of attending treatment 3 days/week * Capable of giving informed consent   **Exclusion Criteria:**   * Active psychiatric illness, substance abuse, or pain that may prevent compliance with treatment | **Age (years, SD)**  ICRP: 39 (±11.)  STD: 35 (±12.4)  **Gender (% male):**  68%  **Race/ethnicity:** 75% white, 10% black, 12% Hispanic, 3% Asian  **Education:** (HS or <, some college, college grad)  **Employment status:** 79% employed,4% unemployed, 2% homemaker, 13% student, 2% retired  **Income:** NR  **Marital status(% married):** 35%  **Military/Veteran status:** NR  **Insurance status:** NR  **Prior TBI:** 4%  **Preexixting psychiatric conditions:**  psychiatric illness 13% substance abuse 21% | **Severity**  Mild: 13%  ModerateI: 24%  SevereI: 59%  **Severity Definition:** Any combination of initial Glasgow Coma Scale score, duration of unconsciousness, duration of post-traumatic amnesia, and positive neuroimaging available from primary medical records.  **Time since injury (mos mean, (std dev.))**  ICRP=49.6 (±76.5) STD=37.0 (±58.2)  **TBI Etiology** NR  **Brain area injured** NR  **Other injury characteristics:** NR | **Comorbidities:** NR  **Compensation seeking status:** NR  **Acute rehabilitation history (% inpatient rehab)**  ICRP: 77%  STD: 85%  **Concomitant Treatment**  NR |
| **Greenwood, 19944**  **Study design**  prospective controlled unmatched nonrandomized  study  **Sample size**  126 (outcomes for 118)  **Location**  four district general hospitals and two university teaching hospitals with neurosurgical units  **Setting**  London and environs  **Interventions**   * case managed (CM) (n=56) * control (n=70)   **Secondary outcomes**   * DRS * GOS | **Inclusion criteria**   * closed head injury * aged 16-60 * been in coma for 6 hours or had a PTA > 48 hours * care giver was resident in district * informed consent   **Exclusion criteria**   * received hospital treatment for drug or alcohol misuse * aged 16-60 * psychiatric disturbance, or a disorder of the central nervous system during the previous year * no fixed abode or if follow up unlikely | **Age (years±SD)**   * CM 31.6±14.4 * control 30.7±14.0   **Gender (% male)**   * CM 69.6 * control 75.7   **Race/ethnicity**  NR  **Education**  NR  **Employment status (%)**   * CM 100 * control 96   **Income**  NR  **Marital status**  NR  **Military/Veteran**  NR  **Insurance status**  NR  **Prior TBI**  NR  **Preexisting**  **psychiatric conditions**  alcohol intake at injury (%)   * CM 36 * control 37 | **Severity definition**  “severely head injured patients”  **Severity**  GCS (mean±SD)   * CM 5.5±2.6 * control 6.6±3.0   **Duration of PTA (days±SD)**   * CM 64.9±97.5 * control 40.8±75.0   **Time since injury**  NR  **TBI etiology (%)**  traffic accident/assault/fall/other   * CM   + traffic accident 60   + assault 16   + fall 18   + other 5 * control   + traffic accident 63   + assault 14   + fall 16   + other 7   **Area of brain injured**  NR  **MRI/imaging findings**  NR  **Other injury characteristics**  days unconscious (mean±SD)   * CM 11.3±13.5 * control 4.6±7.5 | **Comorbidities**   * respiratory   + CM 47   + control 21 * conservative management   + CM 16   + control 31 * tracheostomy   + CM 32   + control 16   **Compensation seeking (%)**   * 6 months   + CM 2   + control 2 * 12 months   + CM 0   + control 6 * 24 months   + CM 17   + control 4   **Acute**  **rehabilitation history**  NR  **Concomitant treatment**  NR |
| **Hashimoto 200610**  **Study design**  prospective, nonrandomized controlled trial  **Sample size**  37  **Location**  Kanagawa Prefecture, Japan  **Setting**  Kanagawa Rehabilitation Hospital  **Interventions**   * comprehensive day treatment program (n=25) * control (outpatients with TBI) (n=12)   **Primary outcomes**   * return to work * FIM/FAM * CIQ | **Inclusion criteria**   * near independence in Activities of Daily Living (ADL) irrespective of ability to walk or wheelchair use * the goal of returning to work or school * having no place they were required to visit frequently except for outpatient clinic   **Exclusion criteria**  NR | **Age (years±SD)**   * intervention 26.6±9.7 * control 28.7±10.9   **Gender (% male)**   * intervention 72 * control NR   **Race/ethnicity**  NR  **Education**  NR  **Employment status**  **(% competitively employed)**   * intervention 60 * control NR   **Income**  NR  **Marital status**  NR  **Military/Veteran**  NR  **Insurance status**  NR  **Prior TBI**  NR  **Pre-existing**  **psychiatric conditions**  NR | **Severity definition**  GCS ≤ 8  **Severity (%)**   * intervention 76.0 * control 83.3   **Duration of PTA**  NR  **Time since injury (days±SD)**   * intervention 527.3±512.6 * control 487.6±125.9   **TBI etiology (%)**   * intervention   + auto accident 20   + pedestrian/auto 20   + bike/auto 36   + cerebral aneurysm 8   + glioma 4   + fall 8   + work accident 4 * control NR   **Area of brain injured**   * intervention   + diffuse brain injury 64   + diffuse brain injury + right acute subdural hematoma 20   + right acute subdural hematoma 4   + Sub arachnoid hemorrhage 8   + diffuse brain injury + contusion 4 * control NR   **MRI/imaging findings**  NR  **Other injury**  **characteristics (%)**  NR | **Comorbidities**  NR  **Compensation seeking**  NR  **Acute rehabilitation history**  NR  **Concomitant treatment**  NR |
| **Ponsford, 20065**  **Study design**  Controlled, individually matched cohort trial  **Sample size**  77  **Location**  Melbourne, Australia  **Setting**  Rehabilitation center  **Interventions**   * Community based rehabilitation (n=77) * Control (n=77)   **Primary outcomes**  Return to work | **Inclusion criteria**  Moderate to severe TBI patients  **Exclusion criteria**  NR | **Age (years±SD)**   * Community based 35.43±16.65 * Control 33.78±15.41   **Gender (% male)**   * Community based 73 * Control 73   **Race/ethnicity**  NR  **Education (years±SD)**   * Community based 11.56±2.42 * Control 11.15±2.54   **Employment status**  **(% competitively employed)**   * Community based 66 * Control 70   **Income**  NR  **Marital status (% single)**   * Community based 63 * Control 61   **Military/Veteran**  NR  **Insurance status**  NR  **Prior TBI**  NR  **Preexisting**  **psychiatric conditions**  NR | **Severity**  **(mean GCS±SD)**   * Community based 8.22±4.37 * Control 7.76±4.13   **Severity definition**  GCS  **Time since injury**  **(years)**  NR  **TBI Etiology**  NR  **Area of brain injured**  NR  **Other injury**  **characteristics**  NR | **Comorbidities**  NR  **Compensation seeking**  NR  **Acute**  **rehabilitation history**  NR  **Concomitant treatment**  NR |
| **Powell, 200214**  **Study design:** RCT  **Sample size** 94  **Location** London, England  **Setting** Community-based  **Study design:** RCT  **Interventions:**   * Outreach * Information   **Primary Outcomes**   * none   **Secondary Outcomes**   * BICRO-39   **Intermediate Outcomes**   * BICRO-39 * FIM + FAM | **Time since injury (yrs mean, (std dev.)):** Outreach=4.0±4.9, Information=2.7±3.6  **Inclusion Criteria:**   * Age 16-65 * Severe TBI between 3 months and 20 years previously * No other neurological conditions * Reside within 1 hour travel time of hospital * Long-term treatment goals amenable with intervention   **Exclusion Criteria** NR | **Age (years, SD)**  Outreach=34±11, Information=35±10  **Gender (% male):** 76%  **Race/ethnicity** NR  **Education** NR  **Employment status** NR  **Income** NR  **Marital status** NR  **Military/Veteran status** NR  **Insurance status** NR  **Prior TBI** NR  **Psychiatric conditions** NR | **Severity**  Mild: 1%  Moderate: 0%  Severe: 99%  **Severity Definition:** Severe: PTA >1day  Mild: PTA <= 1 hour  **TBI Etiology** NR  **Brain area injured** NR  **Other injury characteristics:** NR | **Comorbidities** NR  **Compensation seeking status** NR  **Social support:** NR  **Acute rehabilitation history:** community or post-rehab discharge  **Concomitant Treatment**  NR |
| **Prigatano, 19849**  **Study design**  retrospective, controlled cohort study  **Sample size**  18  **Location**  Oklahoma City, Oklahoma  **Setting**  Neuropsychological rehabilitation program  **Interventions**   * Psychotherapeutic (n=18) * Control (n=18)   **Primary outcomes**  Return to work | **Inclusion criteria**  NR  **Exclusion criteria**  NR | **Age (years±SD)**   * Neuropsychologic 26.1±8.3 * Control NR   **Gender (% male)**   * Neuropsychologic 83.3 * Control NR   **Race/ethnicity**  NR  **Education (%)**   * Neuropsychologic   + ≤ 12 years 61.1   + > 12 years 38.9 * Control NR   **Employment status**  **(% competitively employed)**   * Neuropsychologic 72.2 * Control NR   **Income**  NR  **Marital status**  NR  **Military/Veteran (%)**   * Neuropsychologic 5.6 * Control NR   **Insurance status**  NR  **Prior TBI**  NR  **Preexisting**  **psychiatric conditions**  NR | **Severity**  **(% moderate/severe)**  NR  **Severity Definition**  Russell-Neurenger Average Impairment Rating  **Time since**  **injury** **(months)**   * Neuropsychologic 21.6 * Control NR   **TBI etiology**  “Severe closed head injury”  **Area of brain injured (%)**   * Neuropsychologic   + Severe cerebral contusion 61.1   + Brain stem contusion 5.6   + Severe cerebral contusion + brain stem contusion 33.3 * Control NR   **Other injury characteristics (%)**   * Neuropsychologic   + Post traumatic seizure disorder 16.7   + Residual paresis 66.7   + Residual signs of aphasia and/or dysarthria 33.3   + “Virtually all . . . had cerebral contusions and/or brain stem contusion” * Control NR | **Comorbidities**  NR  **Compensation seeking**  NR  **Acute**  **rehabilitation history**  NR  **Concomitant treatment**  NR |
| **Prigatano, 19947**  **Study design**  Matched control, prospective cohort  **Sample size**  79 (outcomes for 76)  **Location**  Phoenix, Arizona  **Setting**  Work Re-entry Program of the Adult Day Hospital for Neurological Rehabilitation at Saint Joseph’s Hospital  **Interventions**   * Neuropsychological rehab (n=41, outcomes for 38) * Historic controls (n=38)   **Primary outcomes**  Return to work | **Inclusion criteria**   * Primary diagnosis of craniocerebral trauma or TBI * By end of study, ≥ 15 months elapsed since injury * Admitted to study 2-55 months from injury * All subjects considered potentially able to return to work/school   **Exclusion criteria**  NR | **Age (years±SD)**   * Neuropsychological rehab 29.6±12.7 * Historic controls (28.7±12.2   **Gender (% male)**   * Neuropsychological rehab 68.4 * Historic controls 71.1   **Race/ethnicity**  NR  **Education (years±SD)**   * Neuropsychological rehab 13.6±2.3 * Historic controls 12.0±1.2   **Employment status**  **(% competitively employed)**   * Neuropsychological rehab 78.0 * Historic controls NR   **Income**  NR  **Marital status**  NR  **Military/Veteran**  NR  **Insurance status**  NR  **Prior TBI**  NR  **Preexisting**  **psychiatric conditions**  NR | **Severity (mean±SD)**   * Neuropsychological rehab 8.08±2.7 * Historic controls (n=38) 8.03±2.8   **Severity definition**  GCS  **Time since injury**  **(months±SD)**   * Neuropsychological rehab 43.3±16.1 * Historic controls 33.5±8.7   **TBI etiology**  NR  **Area of brain injured**  NR  **Other injury**  **characteristics (%)**   * Neuropsychological rehab   + CT/MRI findings of contusion and/or hematoma 87.7   + Skull fracture/no hematoma 4.9   + Loss of consciousness 7.3 * Historic controls NR | **Comorbidities**  NR  **Compensation seeking**  NR  **Acute**  **rehabilitation history**  NR  **Concomitant treatment**  NR |
| **Rattok, 19928**  **Study design**  3 group comparison  **Sample size**  59  **Location**  New York, NY Metropolitan Area  **Setting**  Outpatient rehabilitation center  **Interventions**   * Treatment 1 (Balanced) * Treatment 2 (Interpersonal) * Treatment 3 (Individualized)   **Primary outcomes**   * Cognitive performance measures * Behavioral Competence Index (BCI) * Vocational | **Inclusion Criteria**   * Diagnosis of TBI, ≥1hr coma * Diagnosis of cerebral anoxia, ≥12hr coma * ≥1 year post-injury * Neurological stability * Unsuccessful vocational or educational rehabilitation prior to entry into program * Residence in New York metropolitan area for duration of study * Age, 18-55 * Command of English * Partial independence in basic activities of self-care, ambulation, and continence * Minimum IQ of 80 on WAIS * Minimum motivation for rehabilitation * Basic level of social appropriateness and manageability in therapeutic or training environment   **Exclusion criteria**   * History or present psychiatric complications * History of drug or alcohol abuse * History of sociopathy * Inability to communicate | **Age (median years)**   * Treatment 1: 26.8 * Treatment 2: 27.1 * Treatment 3:28.5   **Gender (% male)**   * Treatment 1: 65% * Treatment 2: 89% * Treatment 3: 61%   **Race/ethnicity (%)**  NR  **Education (median years)**   * Treatment 1: 14.3 * Treatment 2: 13.5 * Treatment 3: 14.6   **Employment status**  **(% competitively employed)**  NR  **Income**  NR  **Marital status (%)**  NR  **Military/Veteran**  NR  **Insurance status**  NR  **Prior TBI (%)**  NR | **Severity definition**  Severe=Coma of ≥1hr or cerebral anoxia of ≥12hrs  **Severity (Days in coma)**   * Treatment 1: 34.3 * Treatment 2: 38.9 * Treatment 3: 36.9   **Time since injury (median months)**   * Treatment 1: 32 * Treatment 2: 33.8 * Treatment 3: 40.2   **TBI etiology**  95% acceleration/deceleration concussion; 5% cerebral anoxia  **MRI/imaging findings** NR  **Other injury**  **characteristics (%)**   * NR | **Prior**  **psychiatric conditions (%)**   * NR   **Comorbidities (%)**   * NR   **Compensation seeking**  NR  **Acute**  **rehabilitation history**  “Unsuccessful” |
| **Salazar, 20003**  **Study design:** RCT  **Sample size** 120  **Location:** Washington, D.C.  **Setting** US Military medical referral center  **Interventions:**   * Intensive, interdisciplinary, in-hospital cognitive rehabilitation program (Hospital)) (n=xx) * Limited home rehabilitation program with telephone support from psychiatric nurse (Home) (n=xx)   **Primary Outcomes**   * Return to work * Fitness for military duty   Secondary Outcomes   * none | **Inclusion Criteria:**   * Moderate-to-severe closed head injury * Head injury within 3 months of randomization * Rancho Los Amigos cognitive level of 7 * Active duty military member; not pending separation * Accompanied home setting with at least 1 responsible adult available * Ability to independently ambulate * No prior severe TBI or other severe diability that would preclude return to active duty after study treatment   **Exclusion Criteria:**   * Mild TBI | **Age:** Hospital=25, 6.63; Home=26,6.22  **Gender(% male):**  Hospital: 93% Home: 96%  **Race/ethnicity(% white)** Hosptial: 69% Home: 70%  **Education (% some college):** Hosptial: 41% Home=44%  **Employment status:** NR  **Income:** NR  **Marital status (% married)**  Hospital:30% Home=34% yes  **Military/Veteran status(% active military):** 100%  **Insurance status (% military coverage):** 100%  **Prior TBI**  Hospital: 11% Home: 18%  **Psychiatric conditions(% posibive diagnosis)** Hospital=19% Home=25% | **Severity**  **Severity Definition** Glasgow Coma Score≤13; or posttraumatic amnesia≥24 hours; or focal cerebral contusion or hemorrhage on computed tomography or MRI  **Time since injury (mean days, SD)**  Hospital: 38 (23.6)  Home: 39 (33.2)  **Etiology**  MVC  Hospital:49%  Home: 72%  Assault:  Hospital: 27%  Home: 9%  Unknown:  Hospital: 24%  Home: 19%  **Area of brain injured:** cerebrum; computed tomography or MRI  **Other injury characteristics**  Closed: 100% | **Comorbidities:** Headaches, violent behavior, aggressive behavior, seizures, major depression  **Compensation seeking status:** NR  **Social support:** Accompanied home setting with at least 1 responsible adult available  **Acute rehabilitation history:** NR  **Concomitant Treatment**  NR |
| **Sarajuuri, 20056**  **Study design** Prospective Cohort  **Sample size** 39  **Location** Helsinki, Finland  **Setting** Nationwide Rehabilitation Center & Neurosurgery Department within academic medical center hospital  **Interventions**   * Comprehensive (T) (n=19) * Conventional (C) (n=20)   **Primary Outcome**  Status of productivity | **Inclusion Criteria**   * Independence in daily life and only slight physical disabilities * 16 to 55 years of age * completed compulsory education * adequate potential to achieve productivity   **Exclusion Criteria**   * significant psychiatric history * alcohol or drug abuse * previous brain injury * another malignant disease   **Population (n)**  T: 19  C: 20 | **Age (at injury; years, SD)**  T: 30.5 (±10.6)  C: 29.5 (±11.0)  **Gender (% male)**  T: 84%  C: 85%  **Race/ethnicity** NR  **Education (years, SD)**  T: 11.3 (±2.0)  C: 12.2 (±2.9)  **Employment status**  **(preinjury; % employed or stydying preinjury)**  T: 84%  C: 85%  **Income** NR  **Marital status** NR  **Military/Veteran** NR  **nsurance status** NR  **Prior TBI** NR, but prior TBI is excluded  **Preexixting psychiatric conditions** NR, but significant psychiatric history excluded | **Severity (admission GCS; mean, SD, range)**  T: 7.9 (2.7) (4-14)  C: 8.2 (2.5) (3-13)  **Severity Definition:** NR  **Time since injury**  **(month,SD)**  T: 84%  C: 85%  **TBI Etiology**  **(% by mechanism)**  MVC/bike/pedestrian  T: 63% C: 55%  Assault  T: 5% C: 5%  Other(fall, hit by)  T: 26% C: 40%  Unknown  T: 5% C: 0%  **Area of brain injured:** NR  **Other Injury characteristics**  Contusion/hematoma  T: 79% C: 80%  Diffuse axonal injury  T: 42% C: 25%  Severe intracranial pressure  T: 37% C: 25%  Craniotomy  T: 21% C: 25% | **Comorbidities:** NR  **Compensation seeking** NR  **Acute rehabilitation history**  OT  T: 32% C: NR  PT  T: 47% C: NR  SLP  T: 26% C: NR  NP  T: 37% C: NR  **Concomitant Treatment**  NR |
| **Semlyen, 199816**  **Study design** Prospective Cohort  **Sample size** 51  **Location:** Newcastle upon Tyne, UK  **Setting** Regional rehabilitation centre  **Interventions:**   * Coordinated, multidisciplinary rehabilitation * Single-discipline rehabilitation   **Primary Outcomes**   * None   **Secondary Outcomes**   * Newcastle Independence Assessment Form-Research (NIAF-R)   **Intermediate Outcomes**   * Barthel Index * FIM | **Inclusion Criteria:**   * Initial Glasgow Coma Scale score≤8 for at least 6 hours * Between 16-65 years * Identifiable primary consenter * Resides in Northern Regional Health Authority * Surgically stable and able to be discharged from neurosurgical unit within 4 weeks of injury   **Exclusion Criteria:**   * Previous drug or alcohol misuse * Premorbid neurologic history | **Age (at injury; years, SD)**  Treatment: 36(13)  Control: 30(12)  **Gender (% male)**  Treatment: 85%  Control: 84%  **Race/ethnicity:** NR  **Education:** NR  **Employment status:** NR  **Income**  “majority in both groups in lower-middle SES”  **Marital status:** NR  **Military/Veteran status:** NR  **Insurance status:** NR  **Prior TBI:** NR  **Psychiatric conditions:** NR | **Severity**  **Severe:** 100%  **Severity Definition**  Severe: GCS Score ≤8 for at least 6 hours  **Time since injury (mean days, SD)**  Treatment: 49.37 (29.62)  Control: 17.94 (13.6)  **TBI Etiology**  MVC  Treatment: 69.8%  Control: 44.6%  Falls  Treatment: 18.2% Control:33.3%  Assault  Treatment: 9.1% Control: 22.2%  Self-harm  Treatment:  Control: 3%  **Brain area injured:** NR  **Other injury characteristics** NR | **Comorbidities:** NR  **Compensation seeking status:** NR  **Acute rehabilitation history:** NR  **Concomitant Treatment**  NR |
| **Thomas, 200415**  **Study design**  Matched comparison  **Sample size**  22  **Location**  Australia  **Setting**  Community, Outward Bound course, patient home  **Interventions**   * 3-stage Outward Bound program (PUP) * Matched controls   **Primary outcomes**   * Quality of Life Inventory (QOLI) | **Inclusion Criteria**   * Self-selected volunteers * ABI * Past or present client of NSW Brain Injury Rehabilitation Programme   **Exclusion criteria**   * NR | **Age (mean years±SD)**   * PUP 31.54±10.37 * Controls 38.38±12.14   **Gender (% male)**   * PUP NR * Control NR   **Race/ethnicity (%)**   * PUP NR * Control NR   **Education (mean years±SD)**   * Intensive therapy 13.2±1.9 * Standard therapy 12.5±1.2   **Employment status**  **(% competitively employed)**   * PUP “Most not working/studying” * Control “Most not working/studying”   **Income**  NR  **Marital status (%)**   * PUP NR * Control NR   **Military/Veteran**  NR  **Insurance status**  NR  **Prior TBI (%)**   * PUP NR * Control NR | **Severity definition**  Mild=PTA 5-60 minutes  Severe=PTA 1-7 days  Very Severe=PTA 7-28 days  Extremely Severe=PTA>28 days  **Severity (%)**   * PUP   + Mild 2   + Severe 1   + Very Severe 2   + Extremely Severe 8 * Control   + Mild 2   + Severe 3   + Very Severe 0   + Extremely Severe 3   **Time since injury (mean years±SD)**   * PUP   + 5.99±4.54 * Control   + 4.97±2.28   **TBI etiology**  NR  **MRI/imaging findings** NR  **Other injury**  **characteristics (%)**   * NR | **Prior**  **psychiatric conditions (%)**   * NR   **Comorbidities (%)**  prior substance abuse   * NR   **Compensation seeking**  NR  **Acute**  **rehabilitation history (%)**  All participants in PUP and control were current or past clients of New South Wales Brain Injury Rehabilitation Programme |
| **Vanderploeg, 20082**  **Study design** RCT, Multicenter  **Sample size** 366  **Location** Minneapolis, Palo Alto, Richmond, Tampa  **Setting** VA acute inpatient TBI rehab programs  **Interventions**   * Cognitive-didactic (CD) rehab therapy (n=184) * Functional-experiential (FE) (n=182)   **Primary Outcomes**   * Return to work   **Secondary Outcomes**   * Disability Rating Scale score * Functional indepen-dence in living | **Inclusion Criteria:** (1) moderate-to-severe nonpenetrating TBI within  the preceding 6 months, manifested by a postresuscitation Glasgow Coma Scale score of 12 or less, or coma of 12 hours or more, or PTA of 24 hours or more, and/or focal cerebral con-tusion or hemorrhage on CT or MRI; (2) RLAS cognitive level of 5 to 7 at  time of randomization; (3) age 18 years or older; (4) active duty military member or veteran; and (6) antic-ipated length of needed acute interdisciplinary TBI rehabilitation of 30 days or more  **Exclusion Criteria:** (1) history of prior inpatient acute rehabilitation for the current TBI and (2) history of a  prior moderate to severe TBI or other preinjury severe neurologic or psy-chiatric condition, such as psychosis, stroke, multiple sclerosis, or spinal cord injury | **Age (at injury; years, SD)**  CD 33.2 (±13.5)  FE 31.7 (±12.9)  **Gender (% male)**  CD: 92% FE:95%  **Race/ethnicity**  Hispanic  CD: 10% FE:11%  White  CD: 68% FE:69%  Black  CD: 20% FE:18%  Other  CD: 12% FE:12%  **Education**  **(% post high school)**  CD: 34% FE:37%  **Employment status: (% working or in school)**  CD: 86% FE:89%  **Income:** NR  **Marital status (% married)**  CD: 25.6% FE: 25.1%  **Military/Veteran status (% what?)**  CD: 58.4% FE:67.8%  **Insurance status:** NR  **Prior TBI (% “prior head injury”)**  CD: 7.2% FE: 7.2%  **Pre-existing psychiatric con-ditions:** NR | **Severity** NR, but moderate/severe inclusion criteria  **Severity Definition:** NR  **Time since injury:**   * CD 48.9±28.5 (n = 180) days * FE 51.1±29.8 (n = 180) days   **TBI Etiology:**  MVC  CD: 68% FE:66%  Assault  CD: 10% FE:8%  **Area of brain injured:** NR  **Injury characteristics:**   * CD   + Motor vehicular 122/180 (67.8%)   + Fall 21/180 (11.7%)   + Blunt object 15/180 (8.3%)   + Sports/training accident 5/180 (2.8%)   + Indeterminant 17/180 (9.4%) * FE   + Motor vehicular 119/180 (66.1%)   + Fall 29/180 (16.1%)   + Blunt object 9/180 (5.0%)   + Sports/training accident 6/180 (3.3%)   + Indeterminant 17/180 (9.4%) | **Comorbidities:** NR  **Compensation seeking status:** NR  **Acute rehabilitation history:** NR  **Concomitant Treatment**  NR |
| **Willer, 199912**  **Study design**  Case controlled study using a matched design in a before-and-after trial  **Sample size**  46  **Location**  Ontario, Canada  **Setting**  Postacute residential rehabilitation program or home-based subjects  **Interventions**   * Residential-based postacute rehabilitation (RBPR) (n=23) * Control (n=23)   **Primary outcomes**  CIQ | **Inclusion criteria**  Individuals with brain injury who had not undergone treatment in this community-based program  **Exclusion criteria**  NR | **Age (years±SD)**   * RBPR 33.42±11.31 * Control 34.76±10.72   **Gender (% male)**   * RBPR 87 * Control 87   **Race/ethnicity** NR  **Education (%)**   * RBPR   + < HS 26.0   + Completed HS 43.5   + > HS 30.4 * Control   + < HS 26.0   + Completed HS 34.8   + > HS 39.1   **Employment status** NR  **Income** NR  **Marital status** NR  **Military/Veteran** NR  **Insurance status** NR  **Prior TBI** NR  **Preexisting**  **psychiatric conditions**   * RBPR: 30.4% were recruited from psychiatric hospitals * Control NR | **Severity**  **(% moderate/severe)**  All subjects were considered severe TBI  **Severity Definition (HALS**  **disability score±SD)**   * RBPR 20.39±6.02 * Control 20.30±6.09   **Time since**  **injury (years±SD)**   * RBPR 3.05±2.98 * Control 4.66±4.66   **TBI etiology (%)**   * RBPR   + Vehicular related 95.7   + Assault 4.3 * Control   + Vehicular related 95.7   + Assault 4.3   **Area of brain injured** NR  **Other injury**  **characteristics**  Closed brain injury | **Comorbidities**  NR  **Compensation seeking**  NR  **Acute**  **rehabilitation history**  NR  **Concomitant treatment**  NR |
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