

Chapter 7

Annotated Bibliography of Single Subject Studies

Applegate SL, Rice MS, Stein F, Maitra KK. Knowledge of results and learning to tell the time in an adult male with an intellectual disability: A single-subject research design. *Occupational Therapy International*. 2008; 15(1): 32–44. The authors examined whether knowledge of results, in the form of visual and audible feedback, would increase the accuracy of time-telling in an individual with an intellectual disability. MEDLINE [1]

Aust TR, Brookes S, Troup SA, Fraser WD, Lewis-Jones DI. Development and in vitro testing of a new method of urine preparation for retrograde ejaculation: The Liverpool solution. *Fertility & Sterility*. 2008; 89(4): 885–891. The investigators tested the effectiveness of a new method for oral preparation of urine for sperm retrieval after retrograde ejaculation. MEDLINE [2]

Avins AL, Bent S, Neuhaus JM. Use of an embedded N-of-1 trial to improve adherence and increase information from a clinical study. *Contemporary Clinical Trials*. 2005; 26(3): 397–401. The study described the use of a single subject trial (N-of-1) developed to identify means of resolving dilemmas between studies of medicine and their symptoms that may occur. It showed that broader use of formal N-of-1 studies may be a helpful tool for improving adherence and determining whether experimental side effects are caused by study medication in clinical trials. PubMed [3]

Bailey MJ, Riddoch MJ, Crome P. Treatment of visual neglect in elderly patients with stroke: A single-subject series using either a scanning and cueing strategy or a left-limb activation strategy. *Physical Therapy*. 2002; 82(8): 782–797. This study evaluated the use of two approaches to reduce unilateral visual neglect in people who have had strokes. PubMed, MEDLINE [4]

Balkany TJ, Connell SS, Hodges AV, Payne SL, Telischi FF, Eshraghi AA, Angeli SI, Germani R, Messiah S, Arheart KL. Conservation of residual acoustic hearing after cochlear implantation. *Otology & Neurotology*. 2006; 27(8): 1083–1088. This study tested a cochlear implantation with a long perimodiolar electrode in patients with hearing-impairments. MEDLINE [5]

Ballard KJ, Maas E, Robin DA. Treating control of voicing in apraxia of speech with variable practice. *Aphasiology*. 2007; 21(12): 1195–1217. This study found that practice conditions on acquisition and long-term maintenance of voiced and

voiceless phonemes improved production of trained voiced phonemes in apraxia of speech patients. *PsycInfo* [6]

Baron A, Derenne A. Quantitative summaries of single-subject studies: What do group comparisons tell us about individual performances? *Behavior Analyst*. 2000; 23(1): 101–106. This paper discussed a response to a critique on an original article. The supposition is that the original article contained perplexing effects that create challenges for interpreting the results. *PsycInfo* [7]

Barreca S, Velikonja D, Brown L, Williams L, Davis L, Sigouin CS. Evaluation of the effectiveness of two clinical training procedures to elicit yes/no responses from patients with a severe acquired brain injury: A randomized single-subject design. *Brain Injury*. 2003; 17(12): 1065–1075. The objective of this crossover study was to examine participants with severe acquired brain injuries (ABI) and compare two treatment designs (ABAB, BABA) in order to determine which treatment approach extracted more consistent and reliable yes/no responses. *PubMed*, *MEDLINE*, *PsycInfo* [8]

Bean J, Walsh A, Frontera W. Brace modification improves aerobic performance in Charcot-Marie-Tooth disease: A single-subject design. *American Journal of Physical Medicine & Rehabilitation*. 2001; 80(8): 578–582. This study reviewed the lower motor injury literature. It revealed inadequate physiologic evidence supporting the modification of ankle-foot orthoses, particularly in patients with lower motor neuron injury and progressive conditions, such as Charcot-Marie-Tooth disease. *PubMed*, *MEDLINE* [9]

Beeson PM, Robey RR. Evaluating single-subject treatment research: Lessons learned from the aphasia literature. *Neuropsychology Review*. 2006; 16(4): 161–169. This paper discusses a methodology of quantifying treatment outcomes for single subject research studies through effect sizes. *PsycInfo* [10]

Betker AL, Szturm T, Moussavi ZK, Nett C. Video game-based exercise for balance rehabilitation: A single-subject design. *Archives of Physical Medicine & Rehabilitation*. 2006; 87(8): 1141–1149. This study considered whether coupling foot center of pressure–controlled video games to standing balance exercise will recover dynamic balance control, and also to verify whether the enthusiasm and challenging aspects of the video games would increase a need to perform the exercises and complete the rehabilitation process. *Pubmed*, *MEDLINE* [11]

Billingsley, GM. A comparison of three instructional methods for teaching math skills to secondary students with emotional/behavioral disorders. *Dissertation Abstracts International Section A: Humanities and Social Sciences*. 2008; 68(10-A): 4253. The authors examined instructional methods for teaching mathematics to secondary students with emotional and behavioral disorders. *PsycINFO* [12]

Boyd BA, Conroy MA, Mancil RG, Nakao T, Alter PJ. Effects of circumscribed interests on the social behaviors of children with autism spectrum disorders. *Journal of Autism and Developmental Disorders*. 2007; 37(8): 1550–1561. This study evaluated the effects of circumscribed interests to less preferred tangible stimuli on the social behaviors of children with autism spectrum disorders. *PsycInfo* [13]

Boyer JA. Meta-analysis of single case design: Linking pre-service teacher preparation coursework to outcomes for children. *Dissertation Abstracts International: Section B: The Sciences and Engineering*. 2004; 65(2-B): 1015. This study analytically reproduced the work of a prior study using meta-analysis of single-case design data. Coursework in mutual problem solving for intern teachers showed strong effect sizes on academic and behavioral outcomes for children. PsycInfo [14]

Butler J. Rehabilitation in severe ideomotor apraxia using sensory stimulation strategies: A single-case experimental design study. *British Journal of Occupational Therapy*. 2000; 63(7): 319–328. The purpose of this study was to design an evaluation of the treatment of a 21-year old head-injured woman with ideomotor apraxia. An ABA single-case experimental design was engaged to evaluate the impact of sensory stimulation on motor performance. It used a range of measures, including an effortless timed task, and active finger and hand movement measures by goniometry. PsycInfo [15]

Cadenhead SL, McEwen IR, Thompson DM. Effect of passive range of motion exercises on lower-extremity goniometric measurements of adults with cerebral palsy: A single-subject design. *Physical Therapy*. 2002; 82(7): 658–669. The purpose of this study was to determine the effects of passive range of motion training on six adults with spastic quadriplegia and contractures. PubMed, MEDLINE [16]

Callaghan GM, Summers CJ, Weidman M. The treatment of histrionic and narcissistic personality disorder behaviors: A single-subject demonstration of clinical improvement using functional analytic psychotherapy. *Journal of Contemporary Psychotherapy*. 2003; 33(4): 321–339. This article presented single subject data for the treatment of histrionic and narcissistic personality disorder behaviors using a relatively brief course of an interpersonal therapy. PsycInfo [17]

Callahan CD, Barisa MT. Statistical process control and rehabilitation outcome: The single-subject design reconsidered. *Rehabilitation Psychology*. 2005; 50(1): 24–33. Statistical process control, which is a graphical analytic strategy developed in industry, was offered as a means to deploy single subject designs on the front lines of rehabilitation. PsycInfo [18]

Campbell JM. Efficacy of behavioral intervention for reducing problematic behaviors in persons with autism: A quantitative synthesis of single-subject research. *Dissertation Abstracts International: Section B: The Sciences and Engineering*. 2001; 61(7-B): 3834. The purpose of this study was to review the efficacy of behavioral intervention to reduce problematic behaviors in persons with autism. PsycInfo [19]

Campbell JM. Efficacy of behavioral interventions for reducing problem behavior in persons with autism: A quantitative synthesis of single-subject research. *Research in Developmental Disabilities*. 2003; 24(2): 120–138. This study reviewed the efficacy of behavioral interventions for problem manners in persons with autism. The examination and selection of published articles representing 181 individuals with autism were selected from 15 journals. PubMed, MEDLINE [20]

Campbell, JM. Statistical comparison of four effect sizes for single-subject designs. *Behavior Modification*. 2004; 28(2): 234–246. This study compared findings for different single subject effect sizes. PubMed, MEDLINE, PsycInfo [21]

Carlson DA, Smith AR, Fischer SJ, Young KL, Packer L. The plasma pharmacokinetics of R-(+)-lipoic acid administered as sodium R-(+)-lipoate to healthy human subjects. *Alternative Medicine Review*. 2007; 12(4): 343–351. This study presents pharmacokinetics data for an oral dosing of 12 healthy adult subjects given NaRLA through a single subject design. MEDLINE [22]

Cardaciotto L, Herbert JD. Cognitive behavior therapy for social anxiety disorder in the context of Asperger's syndrome: A single-subject report. *Cognitive and Behavioral Practice*. 2004; 11(1), 75–81. This report examined the use of cognitive-behavior therapy in treating Social Anxiety Disorder in an adult with comorbid Asperger's Syndrome. PsycInfo [23]

Chen X, Pereira F, Lee W, Strother S, Mitchell T. Exploring predictive and reproducible modeling with the single-subject FIAC dataset. *Human Brain Mapping*. 2006; 27(5): 452–461. This study demonstrated the potential and pitfalls of predictive modeling in fMRI analysis by investigating the performances of five models: linear discriminate analysis, logistic regression, linear support vector machine, Gaussian naive Bayes, and a variant. Pubmed [24]

Cicero FR. The effects of noncontingent reinforcement and response interruption on stereotypic behavior maintained by automatic reinforcement. *Dissertation Abstracts International Section A: Humanities and Social Sciences*. 2008; 68(10-A): 4193. Using children with autism, the authors studied the effects of noncontingent reinforcement using matched sensory stimuli on a fixed-time schedule and response interruption of stereotypic behavior. PsycInfo [25]

Cleland J, Palmer J. Effectiveness of manual physical therapy, therapeutic exercise, and patient education on bilateral disc displacement without reduction of the temporomandibular joint: A single-case design. *Journal of Orthopaedic & Sports Physical Therapy*. 2004; 34(9): 535–548. This study was designed to determine if manual physical therapy, therapeutic exercise, and patient education would be a valuable management approach for a patient with a disc displacement, without reduction of both temporomandibular joints. PubMed, MEDLINE [26]

Crooke PJ, Hendrix RE, Rachman JY. Brief report: Measuring the effectiveness of teaching social thinking to children with Asperger Syndrome (AS) and High Functioning Autism (HFA). *Journal of Autism and Developmental Disorders*. 2008; 38(3): 581–591. Single subject design methodology was used to study a social cognitive approach for children with Autism Spectrum Disorders. PsycInfo [27]

Crosbie J. (1999). Statistical inference in behavior analysis: Useful friend. *Behavior Analyst*. 1999; 22(2): 105–108. This article examined single subject designs and statistical inference, stating their similarities and benefits for behavior analysts. PsycInfo [28]

De la Casa LG, Lubow RE. Latent inhibition with a response time measure from a within-subject design: Effects of number of preexposures, masking task, context change, and delay. *Neuropsychology*. 2001; 15(2): 244–253. This

study discussed manipulations that normally modulate correct response-based latent inhibition, namely, number of stimulus preexposures, masking, context change, and delay between preexposure and test phases. PubMed, MEDLINE, PsycInfo [29]

Dermer ML. Using CHAINS, a Quick BASIC 4.5 Program, to teach single-subject experimentation with humans. *Teaching of Psychology*. Nov 2004; 31(4): 285–288. This study included students enrolled in a single subject design course and studied the repeated acquisition of response sequences by using CHAINS. PsycInfo [30]

DeVoe D. Comparison of the RT3 research tracker and tritrac R3D accelerometers during a backpacking expedition by a single subject. *Perceptual and Motor Skills*. 2004; 99(2): 545–546. A six-day backpacking expedition in the Grand Canyon National Park, Arizona, was completed by a single subject to compare the RT3 Research Tracker accelerometer and the Tritrac R3D accelerometer in a field setting. PubMed, MEDLINE, PsycInfo [31]

Didden R, Korzilius H, van Oorsouw W, Sturmey P. Behavioral treatment of challenging behaviors in individuals with mild mental retardation: Meta-analysis of single-subject research. *American Journal of Mental Retardation*. 2006; 111(4): 290–298. This meta-analytic study explored the effectiveness of behavioral and psychotherapeutic treatments for challenging behaviors in persons with mild mental retardation. Pubmed, PsycInfo [32]

Dixon MR. Single-subject research designs: Dissolving the myths and demonstrating the utility for rehabilitation research. *Rehabilitation Education*. 2002; 16(4): 331–343. This paper exhibited an overview of the utility of single subject for the rehabilitation researcher, as well as general criticisms of the single subject designs. PsycInfo [33]

Doepke KJ, Henderson AL, Critchfield TL. Social antecedents of children's eyewitness testimony: A single-subject experimental analysis. *Journal of Applied Behavior Analysis*. 2003; 36(4): 459–463. This study duplicated and broadened findings from comparison studies. It showed that a topic of pressing social importance is agreeable to analysis at the individual level, and therefore, prospectively to behavior analysis. PubMed, MEDLINE, PsycInfo [34]

Dudsic JA. Priming asymmetries in Chinese-English bilinguals: A series of single-subject studies. *Dissertation Abstracts International Section A: Humanities and Social Sciences*. 2000; 61(1-A): 152. This study researched whether it is cognitively possible to develop symmetrically conceptual mediation among the languages, particularly with the underlying cognitive structure of a small number of bilinguals [35]

Durrant JD, Palmer CV, and Lunner T. Analysis of counted behaviors in a single-subject design: Modeling of hearing-aid intervention in hearing-impaired patients with Alzheimer's disease. *International Journal of Audiology*. 2005; 44(1): 31–38. This article discussed how clinical procedures related to patients with Alzheimer's disease greatly fail to address the patient's hearing. PubMed, MEDLINE [36]

Dziegielewski SF, Wolfe P. Eye movement desensitization and reprocessing (EMDR) as a time-limited treatment intervention for body image disturbance and self-esteem: A single subject case study design. *Journal of Psychotherapy in Independent Practice*. 2000; 1(3): 1–16. This study, implemented in a private practice setting, examined body image disturbance and self-esteem in a 26-year old female. The treatment modality is eye movement desensitization and reprocessing. PsycInfo [37]

Edger M, Chiu B, Spence JD, Fenster A, Parraga G. Mapping spatial and temporal changes in carotid atherosclerosis from three-dimensional ultrasound images. *Ultrasound in Medicine & Biology*. 2008; 34(1): 64–72. This study evaluated changes in carotid atherosclerosis using plaque and wall thickness maps derived from three-dimensional ultrasound (3DUS) images. MEDLINE [38]

Elder JH, Valcante G, Yarandi H, White D, Elder TH. Evaluating in-home training for fathers of children with autism using single-subject experimentation and group analysis methods. *Nursing Research*. 2005; 54(1): 22–32. The mother-child in-home training program was customized and evaluated for its effects on the ability of training skills by fathers, along with pre-communication skills by the autistic children. PubMed, MEDLINE, PsycInfo [39]

Flanagan SP, Salem GJ. Lower extremity joint kinetic responses to external resistance variations. *Journal of Applied Biomechanics*. 2008; 24(1): 58–68. This study examined whether increases in external resistance during a squat movement would be controlled by scaling the net joint moment work or average net joint moment (NJM) at the hip, knee, and ankle. MEDLINE [40]

Foster LH, Watson TS, Young JS. Single-subject research design for school counselors: Becoming an applied researcher. *Professional School Counseling*. 2002; 6(2): 146–154. This paper aimed to help school counselors understand outcome research by describing, in a tutorial format, simple procedures to evaluate their interventions. PsycInfo [41]

Francis NA. Single subject trials in primary care. *Post Graduate Medicine Journal*. 2005; 81(959): 547–548. This paper described the limits and disadvantages of single-subject design. “Lack of generalisability limits use.”{Discussion of Janosky [58]} PubMed [42]

Fredriksen B, Mengshoel AM. The effect of static traction and orthoses in the treatment of knee contractures in preschool children with juvenile chronic arthritis: A single-subject design. *Arthritis Care & Research*. 2000; 13(6): 352–359. This study observed the effects of static night traction and orthoses on submissive and active extension range of motion, using preschool children with juvenile chronic arthritis. PubMed, MEDLINE [43]

Gliner JA, Morgan GA, Harmon RJ. Single-subject designs. *Journal of the American Academy of Child & Adolescent Psychiatry*. 2000; 39(10): 1327–1329. This article discussed a subcategory of quasi-experimental time-series designs that can be used with very few participants. Using very few participants amplifies the elasticity of the design, but limits the generalizability of the results. PubMed, MEDLINE, PsycInfo [44]

Goebel R, Esposito F, Formisano E. Analysis of functional image analysis contest (FIAC) data with brainvoyager QX: From single-subject to cortically aligned group general linear model analysis and self-organizing group independent component analysis. *Human Brain Mapping*. 2006; 27(5): 392–401. This study analyzed the use of the functional image analysis. Pubmed, MEDLINE [45]

Goetz LL and Stiens SA. Abdominal electric stimulation facilitates penile vibratory stimulation for ejaculation after spinal cord injury: A single-subject trial. *Archives of Physical Medicine & Rehabilitation*. 2005; 86(9): 1879–1883. This study compared the success rate of penile vibratory stimulation (PVS) alone with PVS and abdominal electric stimulation. PubMed [46]

Goodrich DE. Effect of daily step count goals on mood states of middle-aged women: A multiple treatment single-subject design. *Dissertation Abstracts International: Section B: The Sciences and Engineering*. 2005; 65(12-B): 6703. This study investigated how inactive women's daily mood on the Activation Deactivation Adjective Checklist was affected by daily walking goals monitored by pedometers. PsycInfo [47]

Green D, Beaton L, Moore D, Warren L, Wick V, Sanford JE, Santosh P. Clinical incidence of sensory integration difficulties in adults with learning disabilities and illustration of management. *British Journal of Occupational Therapy*. 2003; 66(10): 454–463. The authors examined the clinical effectiveness of sensory integrative therapy (SIT) in ameliorating maladaptive behaviors in two adults with learning disabilities. PsycInfo [48]

Habedank LK. The effects of reintegrating students with mild disabilities in reading. *Dissertation Abstracts International Section A: Humanities and Social Sciences*. 1995; 55(9-A): 2772. The purpose of this study was to investigate the effects of reintegrating six students with mild disabilities into general education classrooms for reading. PsycInfo [49]

Hannah SD, Hudak PL. Splinting and radial nerve palsy: A single-subject experiment. *Journal of Hand Therapy*. 2001; 14(3): 195–201. The purpose of this study was to observe which of the three splint designs most efficiently improved hand function in a patient with radial nerve palsy, which demonstrated the application of a single subject experimental design. PubMed, MEDLINE [50]

Havstam C, Buchholz M, Hartelius L. Speech recognition and dysarthria: A single subject study of two individuals with profound impairment of speech and motor control. *Logopedics, Phoniatrics, Vocology*. 2003; 28(2): 81–90. The purpose of this study was to investigate the use of a speech recognition system as an augmentative method of computer access for individuals with cerebral palsy, severe dysfunction, and dysarthria. PubMed, MEDLINE [51]

Hayes SL, Savinelli S, Roberts E, Caldito G. Use of nonspeech oral motor treatment for functional articulation disorders. *Early Childhood Services: An Interdisciplinary Journal of Effectiveness*. 2007; 1(4), 261–281. This article examined if a research-clinical practice gap exists for nonspeech oral motor treatment for articulation disorders. PsycInfo [52]

Herman PM, Drost LM. Evaluating the clinical relevance of food sensitivity tests: A single subject experiment. *Alternative Medicine Review*. 2004; 9(2): 198–207. An

analysis of the diagnostic value of nine dissimilar food sensitivity tests was run in tandem with a healthy female that had a previous diagnosis of environmental allergies. PubMed, MEDLINE [53]

Hobbs JL, Yan Z. Cracking the walnut: Using a computer game to impact cognition, emotion, and behavior of highly aggressive fifth grade students. *Computers in Human Behavior*. 2008; 24(2): 421–438. This study investigated the effects of an aggression intervention game for three fifth grade students displaying aggressive behaviors. PsycInfo [54]

Horner RH, Carr EG, Halle J, McGee G, Odom S, Wolery M. The use of single-subject research to identify evidence-based practice in special education. *Exceptional Children*. 2005; 71(2): 165–179. This discussion allowed readers to determine if a specific study is a creditable example of single subject research, and also if a specific practice or procedure has been validated as “evidence-based” via single-subject research. PsycInfo [55]

Hume K, Odom S. Effects of an individual work system on the independent functioning of students with autism. *Journal of Autism and Developmental Disorders*. 2007; 37(6): 1166–1180. The authors examined the effects of a work system on the independent work and play skills of students with autism. PsycInfo [56]

Ingersoll B, Lewis E, Kroman E. Teaching the imitation and spontaneous use of descriptive gestures in young children with autism using a naturalistic behavioral intervention. *Journal of Autism and Developmental Disorders*. 2007; 37(8): 1446–1456. A single subject design was used with young autistic children to determine whether reciprocal imitation training could be adapted to target the imitation of descriptive gestures. PsycInfo [57]

Janosky JE. Use of the single subject design for practice based primary care research. *Post Graduate Medicine Journal*. 2005; 81(959): 546–547, 549–551. This was an overview of the rationale of single subject design, an introduction to the methodology, strengths, and limitations, a sample of recent literature citations, a working example, and possible clinical applications. PubMed [58]

Kavale KA, Mathur SR, Forness SR, Quinn MM, Rutherford RB Jr. Right reason in the integration of group and single-subject research in behavioral disorders. *Behavioral Disorders*. 2000; 25(2): 142–157. In this article, past criticisms of meta-analysis were reviewed along with the methods in which they have been addressed. PsycInfo [59]

Keays KS, Harris SR, Lucyshyn JM, MacIntyre DL. Effects of pilates exercises on shoulder range of motion, pain, mood, and upper-extremity function in women living with breast cancer: A pilot study. *Physical Therapy*. 2008; 88(4): 494–510. This study found a modest effect of the pilates exercise program in improving shoulder abduction and external rotation. MEDLINE [60]

Kennedy MR, Coelho C, Turkstra L, Ylvisaker M, Sohlberg MM, Yorkston K, Chiou H, Kan P. Intervention for executive functions after traumatic brain injury: A systematic review, meta-analysis and clinical recommendations. *Neuropsychological Rehabilitation*. 2008; 18(3): 257–299. This paper reviewed studies that focused on the executive functions of problem solving, planning, organizing, and multitasking by adults with traumatic brain injury. PsycInfo [61]

Kinugasa T, Cerin E, Hooper S. Single-subject research designs and data analyses for assessing elite athletes' conditioning. *Sports Medicine*. 2004; 34(15): 1035–1050. The purpose of this review was to sketch the strategies and procedures of single subject research as they relate to assessment of conditioning for athletes. PubMed, MEDLINE [62]

Kinugasa T, Miyanaga Y, Shimojo H, Nishijima T. Statistical evaluation of conditioning for an elite collegiate tennis player using a single-case design. *Journal of Strength & Conditioning Research*. 2002; 16(3): 466–471. The purpose of this study was to evaluate the conditioning of a tennis player by statistical analyses over a season using a single-case design. PubMed, MEDLINE [63]

Kovtoun TA, Arnold RW. Calibration of photo screeners for single-subject, contact-induced hyperopic anisometropia. *Journal of Pediatric Ophthalmology & Strabismus*. May–Jan 2004; 41(3): 150–158. The development of a protocol for photo screening was discussed, along with its interpretation with a miniature digital video camera that has a flash-to-lens dimension to reduce anisometropic hyperopic. PubMed, MEDLINE [64]

LaConte S, Anderson J, Muley S, Ashe J, Frutiger S, Rehm K, Hansen LK, Yacoub E, Hu X, Rottenberg D, Strother S. The evaluation of preprocessing choices in single-subject BOLD fMRI using NPAIRS performance metrics. *Neuroimage*. 2003; 18(1): 10–27. This study proposed an alternative to simulation-based receiver operating characteristic analysis for evaluation of MRI data analysis methodologies. PubMed, MEDLINE [65]

Lange R, Weiller C, Liepert J. Chronic dose effects of reboxetine on motor skill acquisition and cortical excitability. *Journal of Neural Transmission*. 2007; 114(8): 1085–1089. This study tested whether a chronic dose of RBX was effective in improving motor skill acquisition and modulated cortical excitability. MEDLINE [66]

Larosa VR. Validation of preference assessment involving persons with varying degrees of multiple disabilities through contingent and non-contingent stimulus use in daily activity routines. *Dissertation Abstracts International: Section B: The Sciences and Engineering*. 2007; 68(5-B): 3382. Using individuals with disabilities, this study investigated whether preference identification and use within activities of daily living instruction would improve mood ratings and adaptive daily living skills. PsycInfo [67]

Law I, Jensen M, Holm S, Nickles RJ, Paulson OB. Using (10)CO₂ for single subject characterization of the stimulus frequency dependence in visual cortex: A novel positron emission tomography tracer for human brain mapping. *Journal of Cerebral Blood Flow & Metabolism*. 2001; 21(8): 1003–1012. The purpose of this research was to consider the viability of Carbon-10-labeled carbon dioxide for localizing and portraying human brain function in single subjects. PubMed, MEDLINE [68]

Lee DG. An experimental examination of children's sleep quality and improvements resulting from a parent education intervention. *Dissertation Abstracts International Section A: Humanities and Social Sciences*. 2008; 68(7-A): 2829. Employing actigraphy and behavior scales, this study investigated the sleep and

behavior of students before and after a parent sleep education program intervention. PsycInfo [69]

Linday LA, Tsiouris JA, Cohen IL, Shindledecker R, DeCresce R. Famotidine treatment of children with autistic spectrum disorders: Pilot research using single subject research design. *Journal of Neural Transmission*. 2001; 108(5): 593–611. Using a single subject design, a pilot study was performed to evaluate the safety and efficacy of famotidine for the treatment of children with autistic spectrum disorders. PubMed, MEDLINE [70]

Ma HH. An alternative method for quantitative synthesis of single-subject researches: Percentage of data points exceeding the median. *Behavior Modification*. 2006; 30(5): 598–617. This study presented a comparison between the validation of percentage of non-overlapping data approach and the percentage of data points exceeding the median of baseline phase approach. It also demonstrated the application of the baseline phase approach in conducting quantitative syntheses of single-subject research when investigating the effectiveness of self-control. Pubmed, MEDLINE [71]

Madsen LG, Bytzer P. Single subject trials as a research instrument in gastrointestinal pharmacology. *Alimentary Pharmacology & Therapeutics*. 2002; 16(2): 189–196. The study defined how a single subject trial is a randomized controlled trial, carried out in individual patients. The result obtained is precise to the individual patient and the drug being investigated. PubMed, MEDLINE [72]

Marklund I, Klassbo M. Effects of lower limb intensive mass practice in post-stroke patients: Single-subject experimental design with long-term follow-up. *Clinical Rehabilitation*. 2006; 20(7): 568–576. This study investigated the effects of two weeks of intensive mass practice with a constraint-induced movement therapy approach. Pubmed [73]

Martin GL, Thompson K, Regehr K. Studies using single-subject designs in sport psychology: 30 years of research. *Behavior Analyst*. 2004; 27(2): 263–280. This paper summarized the body of research, discussing its strength and limitations, and identified areas for future research. PsycInfo [74]

McCracken JA. An intensive single subject investigation of clinical supervision: In-person and distance formats. *Dissertation Abstracts International: Section B: The Sciences and Engineering*. 2005; 65(12-B): 6663. The study measured the interpersonal behaviors of a supervisor and his/her trainees who participated in a clinical supervision meeting in person and at a distance with videoconferencing technology. PsycInfo [75]

McDonnell J, O'Neill R. A Perspective on single/within subject research methods and “scientifically based research”. *Research and Practice for Persons with Severe Disabilities*. 2003; 28(3): 138–142. The purpose of this study was to assist the improvement of research in special education and the widespread use of efficient practices in schools. PsycInfo [76]

McKelvey ML, Dietz AR, Hux K, Weissling K, Beukelman DR. Performance of a person with chronic aphasia using personal and contextual pictures in a visual scene display prototype. *Journal of Medical Speech-Language Pathology*. 2007; 15(3): 305–317. Using individuals with chronic nonfluent aphasia, the authors

employed a single subject multiple baseline design to study the use of a contextual picture-based system in an AAC device. *PsycInfo* [77]

McKerracher G, Powell T, Oyebode J. A single case experimental design comparing two memory notebook formats for a man with memory problems caused by traumatic brain injury. *Neuropsychological Rehabilitation*. 2005; 15(2): 115–128. This study compared two formats of memory notebook using an ABAB single-case experimental design for a 46-year old man with a history of head injury. *PsycInfo* [78]

Megna J, O'Dell M. Ataxia from lithium toxicity successfully treated with high-dose buspirone: A single-case experimental design. *Archives of Physical Medicine & Rehabilitation*. 2001; 82(8): 1145–1148. This paper discussed use of a prospective, open, single-case research design. This design was used to describe considerable subjective and objective dose dependent development of ataxia after unusually elevated doses of buspirone taken by a patient. The patient's severe ataxia was specifically due to lithium toxicity. *PubMed*, *MEDLINE* [79]

Michaud TC, Nawoczenski DA. The influence of two different types of foot orthoses on first metatarsophalangeal joint kinematics during gait in a single subject. *Journal of Manipulative and Physiological Therapeutics*. 2006; 29(1): 60–65. This study reported the measurement for the effect of two distinct foot orthotic designs on *in vivo* multisegment foot and leg motion; in particular, the first metatarsal and first metatarsophalangeal joint during gait. *PubMed*, *MEDLINE* [80]

Miller EW, Combs SA, Fish C, Bense B, Owens A, Burch A. Running training after stroke: A single-subject report. *Physical Therapy*. 2008; 88(4): 511–522. This study investigated the effectiveness of an intensive task-oriented training in the body-weight-support/treadmill environment to improve running for a subject after stroke. *MEDLINE* [81]

Murphy PS. The effect of classroom meetings on the reduction of recess problems: A single case design. *Dissertation Abstracts International Section A: Humanities and Social Sciences*. 2002; 63(4-A): 1256. This paper conducted classroom meetings as an effective social problem-solving intervention in the reduction of recess problems. *PsycInfo* [82]

Nash MS, Johnson BM, Jacobs PL. Combined hyperlipidemia in a single subject with tetraplegia: Ineffective risk reduction after atorvastatin monotherapy. *Journal of Spinal Cord Medicine*. 2004; 27(5): 484–487. This study showed the effects of an atorvastatin drug monotherapy (10 mg daily) on fasting blood lipid contours and cardiovascular disease risks, which were examined for a single subject with tetraplegia. *PubMed*, *MEDLINE* [83]

Naude JH. Evaluating the efficacy of solution-focused couple therapy using single case design. *Dissertation Abstracts International: Section B: The Sciences and Engineering*. 2000; 61(3-B): 1646. By means of single subject design methodology, relationship contentment and goal attainment in eight couples exposed to solution-focused therapy were observed. [84]

Newcombe RG. Should the single subject design be regarded as a valid alternative to the randomised controlled trial? *Post Graduate Medicine Journal*.

2005; 81(959): 546–547. A debate on the proper applicability of single-subject designs. {Discussion of Janosky [39]} PubMed [85]

Nikles CJ, Mitchell GK, Del Mar CB, Clavarino A, McNair N. An n-of-1 trial service in clinical practice: Testing the effectiveness of stimulants for attention-deficit/hyperactivity disorder. *Pediatrics*. 2006; 117(6): 2040–2046. This study described the clinical use of n-of-1 trials for attention-deficit/hyperactivity disorder in publicly and privately funded family and specialized pediatric practice in Australia. Pubmed, MEDLINE [86]

Odom SL, Brown WH, Frey T, Karasu N, Smith-Canter LL, Strain PS. Evidence-based practices for young children with autism: Contributions for single-subject design research. *Focus on Autism and Other Developmental Disabilities*. 2003; 18(3): 166–175. The purpose of this article was to examine the scientific indication provided by single subject research, which supported effective intervention and educational practices for young children with autism. PsycInfo [87]

Odom SL, Train PS. Evidence-based practice in early intervention/early childhood special education: Single-subject design research. *Journal of Early Intervention*. 2002; 25(2): 151–160. This study examined the strength of scientific evidence from single subject research underlying the Division of Early Childhood Recommended Practices. PsycInfo [88]

O’Grady AC. A single subject investigation of behavioral and cognitive therapies for body dysmorphic disorder. *Dissertation Abstracts International: Section B: The Sciences and Engineering*. Jan 2002; 63(6-B): 3019. The purpose of this study was to focus on suggestions for behavioral and cognitive theories of symptom maintenance, as well as on construing current findings within the body dysmorphic disorder outcome literature, and further clinical suggestions. PsycInfo [89]

Olive ML, Smith BW. Effect size calculations and single subject designs. *Educational Psychology*. 2005; 25(2–3): 313–324. This study compared visual analyses with five alternative methods for assessing the magnitude of effect with single subject designs. PsycInfo [90]

Onghena P, Edgington ES. Customization of pain treatments: Single-case design and analysis. *Clinical Journal of Pain*. 2005; 21(1): 56–68. The intent of this study was to notify pain researchers and practitioners of recent developments in the single-case experimental approach. The potential for tailoring the treatment is also discussed, in addition to its evaluation of the specific complaints, aptitudes, or profile of the individual patient, without violating the canons of good science and practice. PubMed, MEDLINE, PsycInfo [91]

Orme JG, Cox ME. Analyzing single-subject design data using statistical process control charts. *Social Work Research*. 2001; 25(2): 115–127. This paper discussed the various statistical procedures in social work as well as topics related to outcome variability, variables control charts, attributes control charts, and alternative decision rules. PsycInfo [92]

Owensworth T, Fleming J, Desbois J, Strong J, Kuipers P. A metacognitive contextual intervention to enhance error awareness and functional outcome following traumatic brain injury: A single-case experimental design. *Journal of the International Neuropsychological Society*. 2006; 12(1): 54–63. The purpose

of this study was to present preliminary support for a metacognitive contextual approach to improve error awareness and functional outcome. Pubmed, MEDLINE, PsycInfo [93]

Parker AT, Davidson R, Banda DR. Emerging evidence from single-subject research in the field of deaf-blindness. *Journal of Visual Impairment & Blindness*. 2007; 101(11): 690–700. The authors discussed the utility of the single subject design methodology in the field of deaf-blindness through review of the literature. PsycInfo [94]

Patrick PD, Patrick ST, Poole JD, Hostler S. Evaluation and treatment of the vegetative and minimally conscious child: A single subject design. *Behavioral Interventions*. 2000; 15(3): 225–242. This study emphasized two pediatric and adolescent cases of treatment and recovery. Classifications brand a patient's emergence from coma as uncomplicated, complicated by confounding medical conditions, or neuropathic complicated emergence. PsycInfo [95]

Pelletier MH. Cognitive-behavioral therapy efficacy via videoconferencing for social (public speaking) anxiety disorder: Single case design. *Dissertation Abstracts International: Section B: The Sciences and Engineering*. 2003; 63(12-B): 6103. This study was designed to determine the efficacy of cognitive-behavioral therapy for social anxiety via videoconferencing. PsycInfo [96]

Perone M. Statistical inference in behavior analysis: Experimental control is better. *Behavior Analyst*. 1999; 22(2): 109–116. This article discussed how single subject methods promote direct and continuous interaction between investigator and subject, and treatment effects are demonstrated in experimental designs that incorporate replication within and between subjects. PsycInfo [97]

Plant G, Gnosspelius J, Levitt H. The use of tactile supplements in lipreading Swedish and English: A single-subject study. *Journal of Speech, Language, and Hearing Research*. 2000 43(1): 172–183. This study tested two languages, Swedish and English, on a 55-year-old deaf Swedish man who has used a tactile supplement to lip-reading for over 45 years. PubMed, MEDLINE, PsycInfo [98]

Plumer, PJ. Using peers as intervention agents to improve the social behaviors of elementary-aged children with attention deficit hyperactivity disorder: Effects of a peer coaching package. *Dissertation Abstracts International Section A: Humanities and Social Sciences*. 2008; 68(7-A): 2813. The authors examined children with attention deficit hyperactivity disorder and the effects of peer coaching an intervention package. PsycInfo [99]

Powers SW, Piazza-Waggoner C, Jones JF, Ferguson KS, Dianas C, Acton JD. Examining clinical trial results with single-subject analysis: An example involving behavioral and nutrition treatment for young children with cystic fibrosis. *Journal of Pediatric Psychology*. 2006; 31(6), 574–581. Using single subject analysis, this study examined the method of change in a clinical trial of behavioral and nutrition treatment for children aged 18–48 months with cystic fibrosis. Pubmed, MEDLINE, PsycInfo [100]

Price JD, Grimley EJ. An N-of-1 randomized controlled trial ('N-of-1 trial') of donepezil in the treatment of non-progressive amnesic syndrome. *Age & Ageing*. 2002; 31(4): 307–309. This study was designed for a professional man who

protracted a residual, persisting, isolated impairment of short-term memory, secondary to severe carbon monoxide poisoning. MEDLINE [101]

Rapoff M, Stark L. Editorial: *Journal of Pediatric Psychology* statement of purpose: Section on single-subject studies. *Journal of Pediatric Psychology*. 2008; 33(1), 16–21. This editorial discussed the utility of single-subject designs for improving health and quality of life for children and adolescents, with the aim to encourage paper submission using this methodology. PsycInfo [102]

Reason R, Morfidi E. Literacy difficulties and single-case experimental design. *Educational Psychology in Practice*. 2001; 17(3): 227–244. This paper discussed the consideration of the use of single-case research design and reports an intervention study that included monitoring the learning of eight children. PsycInfo [103]

Reifin L, Hauser E. A single subject analysis of consultation process, consultee variables, and client outcomes. *Dissertation Abstracts International Section A: Humanities and Social Sciences*. 2008; 55(9-A): 2776. This study evaluated how a teacher's perceptions of consultation services, changes in problem clarification skills, and changes in attributions related to student outcomes of school-based consultation. PsycInfo [104]

Rio DE, Rawlings RR, Woltz LA, Salloum JB, Hommer DW. Single subject image analysis using the complex general linear model – An application to functional magnetic resonance imaging with multiple inputs. *Computer Methods and Programs in Biomedicine*. 2006; 82(1): 10–19. The purpose of this study was to show how a linear time invariant model is applied to functional fMRI blood flow data. Pubmed, MEDLINE [105]

Romanczyk RG; Gillis JM. Commentary on Drash and Tudor: An analysis of autism as a contingency-shaped disorder of verbal behavior. *Analysis of Verbal Behavior*. 2004; 20: 45–47. An etiological model for autism was critiqued, as well as concern of overgeneralization of research findings to answer population-based questions. PsycInfo [106]

Romeiser LL, Hickman RR, Harris SR, Heriza CB. Single-subject research design: Recommendations for levels of evidence and quality rating. *Developmental Medicine & Child Neurology*. 2008; 50(2): 99–103. The purpose of this article was to present a set of evidence levels and 14 quality or rigor questions in order to promote review of published single subject research articles. MEDLINE [107]

Ruka SM. The effects of reminiscence on promoting a comfort zone: A single subject study of people with dementia in a nursing home. *Dissertation Abstracts International: Section B: The Sciences and Engineering*. 2004; 65(2-B): 658. This study identified individual patterns of behaviors of elderly in nursing homes. It then examined the association between an individualized reminiscence intervention, and the behavioral pattern of resistance to care during bathing, as a basis for supporting a comfort zone. PsycInfo [108]

Rodman ML. A study of intensive, systematic direct instruction for an autistic child. *Dissertation Abstracts International Section A: Humanities and Social Sciences*. 2008; 68(7-A): 2896. The purpose of this study was to investigate the effectiveness of intensive, systematic direct instruction at home, and classroom experience for an autistic child's behavior. PsycInfo [109]

Schlosser RW, Sigfoos J. Augmentative and alternative communication interventions for persons with elemental disabilities: Narrative review of comparative single-subject experimental studies. *Research in Developmental Disabilities*. 2006; 27(1): 1–29. The intention of this article was to synthesize comparative AAC intervention studies using single subject experimental designs involving participants with developmental disabilities. PubMed, MEDLINE, PsycInfo [110]

Schlosser RW. Meta-analysis of single-subject research: How should it be done? *International Journal of Language & Communication Disorders*. 2005; 40(3): 375–377. The purpose of this discussion was to explore how to improve the measurement of “effect sizes” for single subject Research’s meta-analyses. PubMed, PsycInfo [111]

Selkowitz DM, Cameron MH, Mainzer A, Wolfe R. Efficacy of pulsed low-intensity ultrasound in wound healing: A single-case design. *Ostomy Wound Management*. 2002; 48(4): 40–44, 46–50. The purpose of this study was to assess the efficacy of pulsed low-intensity ultrasound on wound healing, using a double-blind, single-case, baseline-AB design. PubMed, MEDLINE [112]

Sharp J, Espie CA. Brief exposure therapy for the relief of post-traumatic stress disorder: A single case experimental design. *Behavioral and Cognitive Psychotherapy*. 2004; 32(3): 365–369. This study tested the effectiveness of the image habituation training in the treatment of post-traumatic stress disorder using a single subject design. PsycInfo [113]

Shehab RL, Schlegel, RE. Applying quality control charts to the analysis of single-subject data sequences. *Human Factors*. 2000; 42(4): 604–616. This study tested the effectiveness of methods from the area of quality control in evaluating cognitive performance by using databases collected under varied risk factors. PubMed, PsycInfo [114]

Shull J, Deitz J, Billingsley F, Wendel S, Kartin D. Assistive technology programming for a young child with profound disabilities: A single-subject study. *Physical & Occupational Therapy in Pediatrics*. 2004; 24(4): 47–62. This study used single subject research methods, combined with social validation procedures, as part of an assessment/intervention process. It explored the effects of an adapted switch-operated device on self-initiated behaviors of a 6-year-old child with profound multiple disabilities. PubMed, MEDLINE [115]

Simon MJ. A comparison between EMDR and exposure for treating PTSD: A single-subject analysis. *Behavior Therapist*. 2000; 23(8): 172–175. The purpose of this study was to use a single-subject analysis to evaluate the effectiveness of eye movement sensitization and reprocessing to imaginal exposure for the management of post-traumatic stress disorder. PsycInfo [116]

Skinner CH. Single-subject designs: Procedures that allow school psychologists to contribute to the intervention evaluation and validation process. *Journal of Applied School Psychology*. 2004; 20(2): 1–10. This paper included empirical case studies and experiments where researchers implemented procedures designed to control impenetrable variables. PsycInfo [117]

Smith JF, Chen K, Johnson S, Morrone-Strupinsky J, Reiman EM, Nelson A, Moeller JR, Alexander GE. Network analysis of single-subject fMRI during a finger

opposition task. *NeuroImage*. 2006; 32(1): 325–332. The purpose of this study was to examine multivariate network analysis using a modified form of principal component analysis. Pubmed [118]

Stovall KC, Dozier M. The development of attachment in new relationships: Single subject analyses for 10 foster infants. *Development and Psychopathology*. 2000; 12(2): 133–156. This study presented single subject analyses of the recently developing attachment relationships of ten foster infants and their eight female foster parents. PubMed, MEDLINE, PsycInfo [119]

Stetter ME. Computer assisted instruction to promote comprehension strategies in students with learning disabilities. *Dissertation Abstracts International Section A: Humanities and Social Sciences*. 2008; 68(7-A): 2897. The purpose of this study was to examine whether comprehension strategy instruction through a computer could improve the reading of students with learning disabilities. PsycInfo [120]

Suzuki R, Ogawa M, Otake S, Izutsu T, Tobimatsu Y, Izumi S, Iwaya T. Analysis of activities of daily living in elderly people living alone: Single-subject feasibility study. *Telemedicine Journal & E-Health*. 2004; 10(2): 260–276. This study developed an automatic remote system for the use of observing the health of independent elderly people living in conventional homes. PubMed, MEDLINE [121]

Swanson HL, Sachse-Lee C. A meta-analysis of single-subject-design intervention research for students with LD. *Journal of Learning Disabilities*. 2000; 33(2): 114–136. This study recapped single subject design intervention studies that consisted of students with learning disabilities. Studies were analyzed across instructional domains (e.g., reading, mathematics); model characteristics (e.g., age, intelligence); intervention parameters (e.g., number of instructional sessions, instructional components); and methodological procedures (e.g., internal validity, treatment integrity). PubMed, MEDLINE, PsycInfo [122]

Tankersley M, McGoey KE, Dalton D, Rumrill PD Jr, Balan CM. Single subject research methods in rehabilitation. *Work (Reading, MA)*. 2006; 26(1): 85–92. This paper described single subject research as an efficient and cost-effective way to assess the impact of targeted interventions on individual behavior. Pubmed, MEDLINE, PsycInfo [123]

Teipel S, Ewers M, Dietrich O, Schoenberg S, Jessen P, Heun R, Freymann N, Moller HJ, Hampel H. Reliability of multicenter magnetic resonance imaging. Results of a phantom test and in vivo measurements by the German dementia competence network. *Nervenarzt*. 2006; 77(9): 1086–1095. The purpose of this study was to assess the precision of volumetric measurement of the brain based on MRI, as volumetric measurement of cerebral atrophy may be useful for diagnosing Alzheimer's disease. PsycInfo [124]

Thompson CK. Single subject controlled experiments in aphasia: The science and the state of the science. *Journal of Common Disorders*. 2006; 39(4): 266–291. The purpose of this paper was to discuss the use of single subject controlled experimental designs for investigating the effects of treatment for aphasia. Pubmed, MEDLINE, PsycInfo [125]

Trujillo-Barreto NJ, Aubert-Vazquez E, Penny WD. Bayesian M/EEG source reconstruction with spatio-temporal priors. *Neuroimage*. 2008; 39(1): 318–335. This article discussed a Bayesian spatio-temporal model for source reconstruction of M/EEG data, and as in single subject designs, the trials were treated as fixed effects, taking into account between-trial variance. MEDLINE [126]

Tsapas A, Matthews DR. N-of-1 trials in diabetes: Making individual therapeutic decisions. *Source Diabetologia*. 2008; 51(6): 921–925. The authors discussed how N-of-1 trials are a useful approach for making therapeutic decisions in chronic diseases like diabetes mellitus, where decision-making is often reliant upon arbitrary criteria and clinical judgment. MEDLINE [127]

Tzourio-Mazoyer N, Landeau B, Papathanassiou D, Crivello F, Etard O, Delcroix N, Mazoyer B, Joliot M. Automated anatomical labeling of activations in SPM using a macroscopic anatomical parcellation of the MNI MRI single-subject brain. *Neuroimage*. 2002; 15(1): 273–289. The purpose of this study was to perform an anatomical parcellation of the spatially normalized single-subject high-resolution T1 volume provided by the Montreal Neurological Institute. PubMed, MEDLINE [128]

Van de Vliet P, Onghena P, Knapen J, Fox KR, Probst M, van Coppenolle H, Pieters G. Assessing the additional impact of fitness training in depressed psychiatric patients receiving multifaceted treatment: A replicated single-subject design. *Disability and Rehabilitation: An International Multidisciplinary Journal*. 2003; 25(24): 1344–1353. The purpose of this study was to make exercise a therapeutic method for treatment of clinical depression. Twenty-nine patients with mood disorder completed daily measurements of depression and physical well being, ranging from 77 to 436 days. PubMed, MEDLINE, PsycInfo [129]

Van Deusen KM. Bilateral stimulation in EMDR: A replicated single-subject component analysis. *Behavior Therapist*. 2004; 27(4): 79–86. This study determined whether the eye movement component of eye movement desensitization and reprocessing was essential in accounting for positive treatment effects in subjects with post-traumatic stress disorder. PsycInfo [130]

Vingerhoets G, Stroobant N. Reliability and validity of day-to-day blood flow velocity reactivity in a single subject: An fTCD study. *Ultrasound in Medicine & Biology*. 2002; 28(2): 197–202. The purpose of this study was to evaluate the within subject variability of repeated task-induced blood flow velocity change with transcranial doppler ultrasonography. PubMed, MEDLINE [131]

Vlaeyen, JWS; de Jong J; Geilen M; Heuts, PHTG; van Breukelen, G. Graded exposure in vivo in the treatment of pain-related fear: A replicated single-case experimental design in four patients with chronic low back pain. *Behaviour Research and Therapy*. 2001; 39(2): 151–166. The purpose of this study was to reconsider the notion that in chronic patients, the lowered capability to accomplish tasks of daily living is merely the consequence of pain sternness. PubMed, MEDLINE, PsycInfo [132]

Wehmeyer ML, Palmer SB, Smith SJ, Parent W, Davies DK, Stock S. Technology use by people with intellectual and developmental disabilities to support employment actives: A single-subject design meta analysis. *Journal of Vocational*

Rehabilitation. 2006; 24(2): 81–86. The intention of this study was to examine the impact of technology use on employment related outcomes for people with intellectual and developmental disabilities. PsycInfo [133]

Wenman R, Bowen A, Tallis RC, Gardener E, Cross S, Niven D. Use of a randomised single case experimental design to evaluate therapy for unilateral neglect. *Neuropsychological Rehabilitation*. 2003; 13(4): 441–459. The purpose of this study was to evaluate the effectiveness of a therapy package combining stimulation and the behavioral techniques of self-instructional training. PsycInfo [134]

Winslow E, Hutchison R. Placebo use in the N-Of-1 Trial. [Department Letter]. *American Journal of Nursing*. 2006; 106(9): 16. This letter compared the use on placebo in clinical care to the use of placebos in pain management. Pubmed [135]

Wragg JA, Whitehead RE. CBT for adolescents with psychosis: Investigating the feasibility & effectiveness of early intervention using a single case design. *Behavioral and Cognitive Psychotherapy*. 2004; 32(3): 313–329. This study presented a single case study investigating the use of cognitive behavioral therapy with an adolescent experiencing a psychotic episode. PsycInfo [136]

Zhan S, Ottenbacher KJ. Single subject research designs for disability research. *Disability & Rehabilitation*. 2001; 23(1): 1–8. The purpose of this paper was to offer a summary of single subject designs, along with providing clinicians with information about the apparatus of single subject designs, and how they can be used in clinical and other rehabilitation environments. PubMed, MEDLINE [137]

Zhang H, Luo WL, Nichols TE. Diagnosis of single-subject and group fMRI data with SPMd. *Human Brain Mapping*. 2006; 27(5): 442–451. This study presented an extension of previous work by Zhang H, et al. that accounted for temporal autocorrelation in single subject models, along with showing how analogous methods can be used on group models where multiple subjects are studied. Pubmed, MEDLINE [138]

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