



PhD Krzysztof Czupryna

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WSB University

The scientific fields of interests are problems of pediatric neurorehabilitation, postural re-education of children and youth, pathological gait analysis, the quality of life of people with disabilities and their families, preventive aspects of various types of physical activity in people over 30 years of age, telerehabilitation

The research project contribution:

2003 So called inhibiting casts as additional gait rehabilitation means

2005 Impact of abnormal muscle tone distribution in children with various types of cerebral palsy on dynamic gait parameters in the light of the tests of automatic kinematic analysis

2005 Possibilities of the reduction of functional blockades in the course of treatment CP children in the light of three-dimensional gait analysis

2009 Possibilities of measurable assessment of the results of rehabilitation cerebral palsied children

2009 Postural and motor stereotypes of children with central motor movement disorders,

2010 Quality of life of families with children with cerebral palsy,

2015 Supporting the process of rehabilitation of children with cerebral palsy by modern technical means

2018 The innovative rehabilitation methods by verifying the effectiveness of the most modern diagnostic and therapeutic methods in patients with cerebral palsy

2018-2019 Creation the laboratory for innovative diagnostic and therapeutic methods of gait education in people with cerebral palsy using modern technological solutions and clinical verification of their effectiveness

2019 Quality of life and burnout syndrome of nurses and physiotherapists - causes and differentiation depending on the type of work

2019 Spine and shoulder pain syndromes as health consequences of work occurring in nurses and physiotherapists

2019 Various aspects of team work and safety in medical professions

2019 Interdisciplinary approach to the study of quality of life of people with disabilities

2019 Some posture-locomotion patterns in people of different ages and functional condition

Publications:

Full-text scientific papers before obtaining PhD degree:

Kokosz M, Nowotny O, Czupryna K. The effectiveness of magnetotherapy in combination with lumbar lifts. *Fizjoterapia*.1994; 2 (3): 21-22.

Saulicz E, Nowotny J, Kokosz M, Nowotny-Czupryna O, Czupryna K. The effect of autoelongation on the behavior of some body posture parameters in the sagittal plane among children and adolescents at different age ranges. *Fizjoterapia*.1995; 3 (4): 13-17.

Saulicz E, Nowotny J, Kokosz M, Czupryna K, Nowotny-Czupryna O. Differentiation in the possibilities of active correction of pelvic spatial disturbances in girls and boys. *Fizjoterapia*. 1996; 4 (1-2): 83-85.

Nowotny J, Kwaśna K, Nowotny-Czupryna O, Czupryna K. Relief belt as an aid in the prevention and therapy of lower back pain syndromes. *Fizjoterapia* 1995; 3 (4): 21-23

Nowotny J., Czupryna K., Matyja M. The most common mistakes made during the rehabilitation of children with cerebral palsy. *Fizjoterapia* 1997; 5, 2:22-27

Czupryna K, Matyja M, Nowotny J, Ptaszek K. Evaluation possibilities of gait efficiency in children with cerebral palsy using the Parotec System. Science Annual (Rocznik Naukowy – 28), AWF Katowice (ISSN 0860-0090). 2000; 28: 85-91.

Rudzińska A, Nowotny J, Cieśla T, Kwaśny K, Czupryna K. Body posture disturbances among children and youth in light of environmental pollution. Science Annual, (Rocznik Naukowy – 28), AWF Katowice (ISSN 0860-0090). 2000; 28: 77-84.

Rudzińska A, Franek E, Czupryna K, Nowotny J, Gnat R, Nowotny-Czupryna O. Body posture and the condition of the skeletal system among children and youth in light of environmental pollution. Science Annual (Rocznik Naukowy – 28), AWF Katowice (ISSN 0860-0090). 2000; 28: 69-76.

Matyja M, Krzysztof Czupryna K, Kokosz K, Golba J. AAn analysis of rehabilitation outcome for infants with torticollis, based on an original examination sheet *Fizjoterapia Polska* 2001; 1(4):354-360

Full-text scientific papers after obtaining PhD degree:

Nowotny-Czupryna O, Rudzińska A, Czupryna K, Lambeck J. Possibilities of applying therapy in water in patients with some musculoskeletal disorders. *Fizjoterapia Polska* 2001; 1 (1): 67-73.

Czupryna K, Matyja M, Nowotny J. The influence of application of inhibitive plasters on the improvement of postural and motor patterns in children with infantile cerebral pals. *Fizjoterapia/ Physiotherapy* 2002; 10, 3-4: 19-27.

Nowotny J, Czupryna K, Pietruszewski J, Matyja M. Some possibilities for alleviating gait disturbances in children undergoing rehabilitation for cerebral palsy, in the light of baroppedographic tests: a preliminary report). *Fizjoterapia Pol.* 2003; 3,3:217-223.

Nowotny J, Nowotny-Czupryna O, Czupryna K. Possibilities of using the Lehnert-Schroth concept during corrective exercises in a station system. *Fizjoterapia Polska*. 2003; 3 (4): 412-419.

Nowotny J, Czupryna K, Sołtys J. An evaluation of gait disturbances in children undergoing rehabilitation for cerebral palsy. *Fizjoterapia Pol.*2003; 3,2:189-196.

Nowotny J, Czupryna K, Domagalska M. The needs and possibilities of quantification of rehabilitation effects in cerebral palsied children. *Rehab.Med.* 2004; 8,4:11-20.

Nowotny-Czupryna O, Nowotny J, Sołtys J, Brzęk A, Czupryna K, Dąbrowska J. Possibilities of one leg relief while walking on crutches *Fizjoterapia*.2005; 13 (3): 48-56.

Nowotny J, Nowotny-Czupryna O, Brzęk A, Czupryna K. Muscle strength in the anti-gravitational and dorsal extensor muscles of children with scoliosis. *Ortopedia Traumatologia Rehabilitacja*. 2005; 7 (1): 15-22.

Czupryna K, Szopa A, Pietruszewski J Bąk K, Siedlecka M, Moskała H. Risk factors and gait disturbances in children with cerebral palsy. *Fizjoterapia Pol.* 2005; 5, 2: 235-240.

Domagalska M, Szopa A, Czupryna K, Nowotny J. Compensatory body segments dislocations in frontal planes children with cerebral palsy. *Fizjoterapia Pol.* 2005; 5, 2: 127-133.

Nowotny J, Domagalska M, Czupryna K, Szopa A. Some posture patterns and gait disturbances in children with cerebral palsy. *Fizjoterapia Pol.* 2005; 5, 2: 228-234.

Gnat R, Cieśla T, Kwaśny K, Czupryna K. The body posture in children and teenagers in the environment of different extent of pollution with lead and cadmium. *Med. Środow.* 2005; 8, 1: 31-38.

Domagalska M, Czupryna K, Szopa A, Nowotny J. Specific and alternative therapies for children with cerebral palsy. *Neurol.Dziec.* 2005;14,27: 7-15.

Matyja M, Czupryna K, Nowotny J. Compliance with the developmental principle as a problem of choosing the approach to therapy of children with cerebral palsy. *Rehab.Med.*2005;9, 4: 24-30.

Domagalska M, Nowotny J, Szopa A, Czupryna K, Nowotny-Czupryna O. Compensatory Shift of the body segments in sagittal plane in children with cerebral palsy. *Fizjoterapia.* 2006; 14 (4):19-28.

Czupryna K, Nowotny J, Nowotny-Czupryna O, Domagalska M. Assessment of gait in children with cerebral palsy as the basis for programming rehabilitation and controlling its results. *Rehabilitacja Medyczna.* 2006; 10 (1): 29-40

Domagalska M, Szopa A, Czupryna K, Nowotny J, Matyja M. "The inhibiting casts" used in cerebral palsied children. *Ortop.Traumat.Rehab.* 2006; 8 3: 291-299.

Nowotny-Czupryna O, Nowotny J, Brzęk A, Czupryna K. Functional asymmetry of gait in children and youth with low-degree scoliosi *Ortopedia Traumatologia Rehabilitacja.* 2006; 8 (2): 187-194.

Nowotny J, Czupryna K, Sołtys J, Gędlek M, Bąk K. Gait stereotype disturbances and compensation of gait disorders in chronic motor dysfunction. *Fizjoterapia/Physiotherapy.* 2006; 14, 1: 24-33.

Czupryna K, Pietruszewski J, Poliszuk-Siedlecka M, Moskała H, Tomaszewski R. The possibility of gait disturbances mitigation in cerebral palsy children treated with botulinum toxin-A in the light of 3D gait analysis. *Neurol.Dziec.* 2006; 15,29: 17-25.

Matyja M, Czupryna K, Anna A. Using plaster in the treatment of children with cerebral palsy. *Fizjoterapia/Physiotherapy.* 2007; 15, 4: 11-19.

Domagalska M, Czupryna K, Szopa A, Nowotny J, Płaszczyński M. The postural and locomotional patterns in CP children in treatment planing. *Fizjoterapia Pol.* 2007; 7, 3: 320-331.

Szopa A, Domagalska M, Czupryna K, Płaszczyński P. Postural consequences of muscle tone disorders in children with cerebral palsy hemiparesis. *Fizjoterapia Pol.* 2007; 7,3: 241-249.

Domagalska D, Czupryna K, Szopa A, Nowotny J. Postural problems of children with CP based on hemiparesis. *Fizjoterapia Pol./Pol.J.Physiother.*2008; 8, 3: 253-259.

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Czupryna K, Nowotny-Czupryna O, Nowotny J. The degree of disability in children with cerebral palsy and the quality of their rehabilitation and restrictions in social life of their families. Rehabilitacja Medyczna. 2012; 16, 2: 22-28.

Nowotny-Czupryna O, Czupryna K , Nowotny J, Brzęk A: Some possibilities of correction and compensation in the regulation of body posture in children and adolescents with low-grade scoliosis. Ortopedia Traumatologia Rehabilitacja. 2012; 6(6); Vol. 14, 525-535.

Czupryna K, Nowotny-Czupryna O, Nowotny J: Theoretical view on neuropathological aspects of conservative treatment of scoliosis.

Ortopedia Traumatologia Rehabilitacja. 2012; 2, 6 (14): 103-113.

Nowotny-Czupryna O, Czupryna K, Bąk K, Wróblewska E, Rottermund J. Postural habits of young adults and the possibilities of their change. Ortopedia Traumatologia Rehabilitacja. 2013, 15, 1 (6): 9-21.

Czupryna K, Nowotny J: Zachowanie się stóp i kolan podczas chodu pod wpływem dodatkowych środków usprawniania dzieci z M.P.Dz. (Feet and knees behavior during walking under the influence of additional means of treatment in cerebral palsied children) Ortopedia Traumatologia Rehabilitacja 2012; 4(6),14:371-383.

Czupryna K , Nowotny J. Kinematic parameters of pelvis during walking under the influence of means facilitates treatment in cerebral palsied children Ortopedia Traumatologia Rehabilitacja 2012; 5(6),14:453-465

Famuła A, Nowotny-Czupryna O, Czupryna K, Nowotny J. Previous physical activity and body balance in elderly people. Biology of Sport. 2013; 30, (4): 311-315;

Rottermund J, Nowotny-Czupryna O, Czupryna K. Physiotherapist as a health educator after myocardial infarction. Journal of Ecology and Health. 2013; 1 (95): 44-51.

Czupryna K, Nowotny-Czupryna O, Nowotny J. Ergonomic conditions of pain syndromes in physiotherapists dealing with neurorehabilitation of children. Ortopedia Traumatologia Rehabilitacja, 2014; 4(6), 16: 407-418.

Czupryna K, Nowotny-Czupryna O, Nowotny J. Pain in the spine in mothers of children with cerebral palsy. Ortopedia Traumatologia Rehabilitacja 2014; 5(6); 16: 497-505.

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Czupryna K, Donocik-Jurgielewicz J, Szumakowicz-Bożek E, Poźniak M Siuta M , Smółka M, Halczuk M: Perthes' disease - examples of therapeutic exercises used in younger children. Rehabilitacja w praktyce 2015; 5:43-50

Szymańska J, Nowotny-Czupryna O, Czupryna K, Szczepaniak R: Changes in the quality of life of people with chronic ischemia of the lower extremities under the influence of energy tone therapy. Fizjoterapia Polska, 2017; 17(3); 64-73.

Szymańska J, Czupryna K, Nowotny-Czupryna O, Szczepaniak R: Energotonous therapy as an alternative to walking training in people with intermittent claudication. Fizjoterapia Polska, 2017; 17(3); 112-120.

Nowotny-Czupryna O, Czupryna K, Skucha-Nowak M, Szymańska J: Pain and spine settings when working in a sitting position occurring in dentists and medical assistants. Medycyna Pracy. 2018; 69(4);1-14.

Ridan T, Warzecha A, Ogrodzka-Ciechanowicz K, Kita B, Czupryna K. FMS test in assessing the risk of injury in a group of floorball players. Fizjoterapia Polska, 2018, 18(4), 74-84;

Nowotny-Czupryna O, Czupryna K, Ridan T, Rottermund J: Examples of functional exercises recommended in the prevention of prostural disorders in the sagittal plane in children of pre-school and early-school age. Work on habits. Fizjoterapia Polska, 2018, 18(4), 14-25;

Czupryna K, Nowotny-Czupryna O, Szymańska J, Szczepaniak R. *Quality of life of the family of a child with psychomotor disability in the context of solving everyday problems*. Fizjoterapia Polska 2019; 19(3); 54-61;

Articles sent to journal editor office:

Czupryna K, Nowotny-Czupryna O: The occurrence of pain and the change of daily life activity in people over the age of 30, continuing practicing judo.

Nowotny-Czupryna O, Czupryna K: Is the body height and weight disparity the reason for pain in physiotherapists?

Monographs and chapters in monographs published before obtaining PhD degree:

Saulicz E, Nowotny J, Czupryna K, Kokosz M, Nowotny-Czupryna O Science of physical culture and the challenges of modern civilization. Post-conference materials for the 25th anniversary of AWF Katowice. Katowice. Ed. Academy of Physical Education in Katowice, 1996. ISBN 83-902927-3-4. Spatial disturbances in the position of the pelvis and the possibility of active correction in the scoliotic posture, p. 182.

Saulicz E, Nowotny J, Kokosz M, Nowotny-Czupryna O, Czupryna K: Sciences of physical culture in the face of challenges of modern civilization. Post-conference materials for the 25th anniversary of AWF Katowice. Katowice. Ed. Academy of Physical Education in Katowice, 1996. ISBN 83-902927-3-4. Behavior of some body posture parameters in the sagittal plane during autoelongation, p. 186.

Czajkowska-Goldschmidt G, Czupryna K, Nowotny-Czupryna O: Sciences of physical culture in the face of challenges of modern civilization. Post-conference materials for the 25th anniversary of AWF Katowice. Katowice. Ed. Academy of Physical Education in Katowice, 1996. ISBN 83-902927-3-4. Physical activity in the prevention of disability in Germany and Poland, p. 201.

Czupryna K., Nowotny J., Matyja M. (2001): Photogrammetry and pedobarography as a control of influence value of exercises in hemiparetic cerebral palsied children. In: M.V.Perat (ed.) Cerebral palsy at the turn of the Millennium. Monduzzi Editore: Bologna, Italy; 2001: 173-178.

Monographs and chapters in monographs published after obtaining PhD degree:

Nowotny J, Nowotny-Czupryna O, Czupryna K: Defects in body posture in children and adolescents. Bielsko-Biała: Wyd. PAN-WSA, 2009. ISBN 978-83-60430-32-3. Redukacja posturalna w systemie stacyjnym, str. 207.

Rudzińska A, Nowotny-Czupryna O, Nowotny J, Czupryna K: Defects in body posture in children and adolescents. (red.: J. Nowotny). Bielsko-Biała: Wyd. PAN-WSA, 2009. ISBN 978-83-60430-32-3. Przegląd metod o znaczeniu historycznym i współcześnie wykorzystywanych w terapii wad postawy ciała, str. 173.

Czupryna K, Nowotny-Czupryna O, Nowotny J, Rottermund J. Problems of families of disabled children on the example of m.p.dz W: Niepełnosprawność niejedno ma imię. (red. Rottermund J, Czupryna K.). Wyd. WSA, Bielsko-Biała, 2013.

Rottermund J, Nowotny-Czupryna O, Czupryna K. Disability Classification. W: Niepełnosprawność niejedno ma imię. (red. Rottermund J, Czupryna K.). Wyd. WSA, Bielsko-Biała, 2013.

Nowotny-Czupryna O, Nowotny J, Czupryna K, Rottermund J. Pain as a health effect of non-compliance with ergonomic principles p. 82-84; Smoleńsk, 2013.

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Rottermund J, Nowotny-Czupryna O, Czupryna K, Nowotny J. Kinesis prevention in falls in the elderly people p. 100-103; Smoleńsk, 2013.

Rottermund J, Nowotny-Czupryna O, Czupryna K. Occupational therapy as part of comprehensive rehabilitation p. 98-100; Smoleńsk, 2013.

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Brzęk A, Nowotny-Czupryna O, Kowalczyk A, Czupryna K, Brzęk B. Impact of active playing on wind instruments on body posture and functional state of the respiratory system. Fizjoterapia: diagnostyka i terapia w postępowaniu z osobami z różnymi potrzebami. Katowice: Media Silesia, 2013, 17, s. 17-21.

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Sent to Editors:

Nowotny-Czupryna O, Czupryna K. Postural disorders typical of the elderly and ways to correct them w: Selected aspects of old age (red. J. Rottermund, A. Knapik, A. Brzęk). Wyd. SUM 2020.

Co-author of books for students and physiotherapists:

Nowotny J, Nowotny-Czupryna O, Czupryna K, Plinta R. Training of motor skills: theoretical foundations and practical aspects: a textbook for physiotherapy students. (Red.: J. Nowotny). Wyd. ŚAM, Katowice, 2002

Nowotny J, Nowotny-Czupryna O, Czupryna K, Plinta R. Motor education and re-education. (Red.: J. Nowotny). Wyd. KASPER, Kraków, 2003

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Gaździk TS, Marszał E, Nowotny J, Kazibutowska Z, Opala G, Czupryna K, Domagalska M, Nowotny-Czupryna O. Clinical basics of physiotherapy in musculoskeletal dysfunctions. Handbook for physiotherapy students and physiotherapists. (Red.: J. Nowotny). Wyd. MediPage, Warszawa, 2006

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Small physiotherapy dictionary. Polish-English and English-Polish denomination with definitions (opracowanie zbiorowe pod red. Klukowski K, Nowotny J, Czamara A). Wyd. Lekarskie PZWL, Warszawa, 2014.

Nowotny J, Nowotny-Czupryna O, Czupryna K. Kinesiological and functional aspects of rehabilitation. Handbook for physiotherapy students and physiotherapists. Wyd. α-medica press, 2015.