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Submission date: 03-May-2020 01:18AM (UTC+0300)

Submission ID: 1314237770

File name: The_connection_between_motor_control.edited.docx (30.11K)

Word count: 1769

Character count: 10809

Motor Control, Development, and Learning and Chiropractic Field

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Abstract

The objective of this literature is to deliberate on the connection between motor control, development, and learning in human nervous system. It presents a comprehensive association of the place of chiropractic practices and related healthcare in case of delayed motor development as well as related conditions in human nervous system. Similarly, concern draws on providing a systematic review of chiropractic care and related literature on the impact of the former to folks suffering from motor learning-related disabilities as well as motor control and development challenges. The knowledge gained from the literature reviewed established that chiropractic healthcare has a positive impact on individuals experiencing learning disabilities. Concerning the above influence, chiropractic care has proved to play a critical role in learning by improving cognitive modalities of the affected individuals. Hence, a preliminary conclusion indicates that motor control, development and learning related conditions have a profound connection to the treatment spanning from chiropractic field.

Motor Control, Development, and Learning and Chiropractic Field

Learning disability is a very difficult concept to define based on the fact that every individual has an inimitable amalgamation of talents as well as deficits. However, the concept of learning disability deduces a nonconformity to an idyllic standard determined by an explicit society otherwise culture at a given point in the course of historical creation and development.

¹³ Attention deficit hyperactivity disorder (ADHD) demands use of Ritalin drugs in children at the point of recognition to avert future self-medication with illegal substances. However, the drug has its grave shortcomings. Thus, acknowledging ADHD is in prevalence through a physician diagnosis, three behavior types are critical to an individual in the early stages of growth. Hyperactivity, destructivity and impulsivity impairments ring the bell that one has nervous system related issues thus an imminent danger to the normal brain operation and cognitive behaviors. Concerning this, it is significant to note that human brain is not a static entity. Hitches arising from motor control, development and learning ailments are likely to be remedied through brain stimulation based on nonsurgical and medicinal treatment to trigger its plasticity vicissitudes (Carnes et al., 2010). Hence, chiropractic care is key to establishing subluxations and dissimilar sensual impetuses affecting lacking hemisphere and aid stabilize the functioning of the brain.

Literature Review

There is a dire need for more experimental and observational studies in the field of chiropractic treatment. Chiropractic medication entails treating patterns of developmental delays. Hence, chiropractic medication encompasses a range of conditions ranging from dyslexia, ADHD, dyspraxia to learning disability (Coulter et al., 2002). Studies show that motor discoordination is a common condition associated with the aforementioned disorders and

chiropractic treatment has been of interest to offer necessary treatment. Developmental delay syndromes (DDSs) disturbances' pervasiveness has an approximation of highs of five to twenty percent based on traditional definition (Boyle et al., 1994).

Developmental delay syndromes associated with health care providers' visits have been on the rise over the past decade. Likewise, there has been an upsurge of posterities with critical philological and behavioral difficulties. According to research by the US Department of Education, excesses of fifty percent of marginal as well as nonminority children at their respective grade echelons could not read (Cuthbert & Barras, 2009). For the past three decades, doctors have been fond of utilizing methylphenidate prescriptions on a large scale. The latter led to over twenty million prescriptions of the same drug in 2009 an event that forced many parents with DDSs diagnosed children to consider services from chiropractors or alternate physicians (Connor, 2002).

According to a survey done on children with motor development disorders particularly attention deficit hyperactivity disorder, families averaging to 67.6 percent asserted that in the recent past or back in time they utilized alternative or contemporary medication to alleviate motor control and development disorders (Gualtieri & Johnson, 2008). Their options encompassed modifying dietary intakes as well as use of chiropractic treatments. A natural challenge exists with all motor control, development and learning disorders, where medication used for these individuals does not essentially render any functional normalization effect from childhood to adulthood. Hence, problems resulting from motor control, development and learning challenges affect victim's status of employment, delinquency, academic accomplishments, traffic as well as related carnages, and ingesting of health care. Based on this

study, little is known about association ² in the middle of attention deficit hyperactivity disorder as well as motor control dysfunctions otherwise known as developmental coordination disorder.

However, since more often coexistence could be established between cognitive as well as motor functions, ¹⁰ this study was done to establish chiropractic valuation and treatment of motor control, development and learning impairments among one hundred and fifty-seven progenies and whether it had a positive impact on their cognitive performance. The study employed homogeneous as well as broadly accepted valuation tools from the fields of speech therapy and didactic psychology.

Discussion and Application

The intricacy of the findings in the above literature review was found to align with other researchers' findings that had established that motor development was impacted by several factors as well as multifaceted in existence (Silver, 1986). Owing to the latter, several aspects of medication as well as diagnosis ought to be profoundly personalized to attain the desired success. From antiquity, motor control ailments tend to persist into the adulthood of an individual. It is concerning motor learning problems such as construing, language, behavioral as well as coordination disorders among children that have shown these challenges tend to linger into maturity.

Nonetheless, what are the common factor in the treatment of developmental coordination disorder and learning disability? Development coordination disorder is a condition associated with acting (motor control), doing (motor learning) and practice (motor development). This disorder affects an individual's ability to do anything with ease with little rather minimal effort required. Hence, a youngster's development is normally contingent on her development coordination or motor activities as this measurement is readily accessible for observation besides

testing. It was established that children diagnosed with any motor development disorder were likely to meet any other standard for some developmental disorder (Piek & Dyck, 2004). Thus, the literature found out ¹⁰ that the significance of deprived motor functioning in discerning children with dissimilar developmental ailments has been underrated. Concerning this, poor motor control is the common factor that associated learning disabilities and developmental coordination disorder.

Subsequently, comprehending the impact of motor control operation on a youngster development is critical for researchers, paternities and educationalists (Yan et al., 1998). Because motor dysfunction has been established to be a fewer shared comorbidity related to developmental delay syndromes. Nevertheless, there have been attempts to assess controlling as well as physical medications for progenies with motor control, development, and learning disorders using chiropractic methods. In one of the attempts, an evaluation by psychologists indicated that individuals who were treated with AK chiropractic technique exhibited noteworthy developments in their learning abilities. This was after nine to twelve treatment sessions conducted in a time frame of six to twelve months (Mathew & Thomas, 1999).

Suppose I was in the field, the practical application of this material would entail being aware that motor development conditions are a body term that encompassed conditions ranging from learning disabilities, dyspraxia, attention deficit hyperactivity disorder as well as dyslexia. Similarly, the shared characteristic of a motor developmental disorder does not to a large extent veer from motor impairments. Hence, a chiropractic evaluation of cognitive operations is bound to show sound enhancements post a chiropractic manipulative medication in youngsters with motor control, development and learning disorder. Thus, the connection between motor control,

development and learning damages and developmental delay conditions reviewed in the literature and chiropractic care administered to the sample clique of progenies was inveterate.

Meanwhile, I find it interesting that although the causation of motor control, development and learning ailments is yet to be certain through evidence-based proof, not so acclaimed chiropractic practice and care could help intervene in these conditions. For instance, in the represented literature above, the application of a multimodal chiropractic technique that assessed and treated motor dysfunction abridged signs as well as improved the cerebral performance of the depicted population. That is, their aptitude to distillate, maintain concentration and attention, regulate impulsivity besides home-based and institute performance greatly improved.

In conclusion, development delay disorder is a progressively behavioral as well as neurologic ailment with a damaging impact on posterities affected as well as associated relations. However, no clear causation has been documented prompted research to establish aspects playing a central role in this ailment. Nonetheless, the connection between advancements in the reviewed cohorts' social as well as perceptive comportment with their families and institute, besides perfections in results on AK evaluation submits there is a likelihood of an association between chiropractic interventions offered and enhanced progenies' status. Likewise, although an accountable physician of chiropractic will not claim that care resulting from chiropractic practices was the only healthcare for progenies with motor control, development and learning conditions necessitate, the reviewed literature does imply a conceivable part for chiropractic care for depicted ailing population.

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