REVIEW ARTICLE

Role of occupational therapy in improving quality of life of physically challenged persons

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Abstract:

Occupational therapy is a branch of medicine which uses different methods to help physically and mentally ill people to develop, maintain, and recover skills needed to function in day to day life, as well as in workplace environments. Thus lives of millions of disabled all over the world are enhanced to a meaningful quality of life. Occupational therapists also focus much of their work on identifying and eliminating environmental barriers to independence and participation in daily activities. This is a client-centered practice that places emphasis on the progress towards the client's goals. The interventions are made on adapting the environment, modifying the task, teaching the skill, and educating the client/family in order to increase participation in and performance of daily activities, particularly those that are meaningful to the client. They often find it challenging to implement client-centered and occupation-based assessment tools into practice. This part of rehabilitation medicine is neglected in our country. More work is needed to understand how best practices can be incorporated into a changing occupational therapy daily practice. The aim of this review article is to highlight the importance of occupational therapy and its application in improving the quality of life and quality adjusted life years in physically challenged persons.

Introduction:

Occupational science, the study of occupation, was created in 1989 as a tool for providing evidencebased research to support and advance the practice of occupational therapy, as well as offer a basic science to study topics surrounding "occupation"¹. Occupational therapists have during many decades used a wide range of formalized assessment tools, including tools borrowed from other disciplines, in order to provide relevant services to clients². During the last 20 years, the profession has seen a steady increase in the development and validation of assessment tools that more distinctly reflect occupational therapy domains of practice such as quality of occupational performance,^{2,3} occupational gaps⁴, and guality of social interaction⁵. Occupational therapists use assessment tools with an intended purpose to better guide intervention planning and to provide baseline and outcome measures in order to track progress and/or change among clients. Occupation-focused assessment refers to keeping

the focus on occupation, with an immediate impact on occupational performance⁶.

Practicing occupational therapy:

The role of occupational therapy allows occupational therapists to work in many different settings, work with many different populations and acquire many different specialties. This broad spectrum of practice lends itself to difficulty categorizing the areas of practice that exist, especially considering the many countries and different health care systems. In America the Occupational Therapy Practice Framework (OTPF) is the core competency of occupational therapy. The OTPF framework is divided into two sections: domain and process. The domain includes environment, client factors, such as the individual's motivation, health status, and status of performing occupational tasks. The domain looks at the contextual picture to help the occupational therapist understand how to diagnose and treat the patient. The process is the actions taken by the therapist

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to implement a plan and strategy to treat the patient⁷.

Studies show that contributions from occupational science are also reflected in clinical reasoning. Clinical reasoning is regarded as core element in health professional's practice and provides a link between research and practice⁸.

Promotion of health and quality of life:

The practice area of Health and Wellness is emerging steadily due to the increasing need for wellness-related services in occupational therapy in order to improve the quality of life and quality adjusted life years. A connection between wellness and physical health, as well as mental health, has been found; consequently, helping to improve the physical and mental health of clients can lead to a general increase in wellness. Prevention of disease and injury, prevention of secondary conditions, promotion of the well-being of those with chronic illnesses, reduction of health care disparities, and enhancement of factors that impact quality of life, promotion of healthy living practices, social participation, and occupational justice should be focused in the practice area⁹. There must also be a shift from performance to participation in daily life, with evidence supporting the link between participation and a person's health status. A paradigm shift is imperative to reorganize the profession and make a dramatic shift¹⁰.

The quality of life (QOL) concept was introduced in healthcare research to complement the traditional medical outcomes, such as mortality and morbidity¹¹. Nowadays, this concept constitutes the highest level of health outcomes. The literature suggests that the factors that contribute to improve QOL level in older adults are maintenance of independence, autonomy, adaptability, social participation, social role functioning and others.¹² Those factors remain an important topic of study because of a need to clarify the specific influence of each factor on QOL.

Rehabilitation need:

Occupational therapists address the needs of rehabilitation, disability and participation. Occupational therapists provide treatment for adults with disabilities in a variety of settings including hospitals (acute rehabilitation, in-patient rehabilitation, and out-patient rehabilitation), home health, skilled nursing facilities, and day rehabilitation programs. When planning treatment, occupational therapists address the physical, cognitive, psychosocial, and environmental needs involved in adult populations across a variety of settings such as improving of life with assistive devices and telehealth¹³. One study showed that fall risk is closely related to ADL capability, and that the frequency of leaving the house is very important for reducing fall risk¹⁴.

Mental health

Mental health and the moral treatment movement have been recognized as the root of occupational therapy¹⁵. According to the World Health Organization, mental illness is one of the fastest growing forms of disability. There is a focus on prevention and treatment of mental illness in populations including children, youth, the aging, and those with severe and persistent mental health issues¹⁶. More specifically, military personnel and veterans are populations that can benefit from occupational therapy but currently, there is a lack of focus on these populations regarding mental health care.^[44] Occupational therapists provide mental health services in a variety of settings including hospitals, day programs, and long-termcare facilities¹⁷.

Quality of life in physically challenged persons To enable independence of older adults at home, occupational therapists perform fall screens and evaluate older adults functioning in their homes and recommend specific home modifications. When addressing low vision, occupational therapists modify tasks and the environment. While working with individuals with Alzheimer's Disease (AD), occupational therapists focus on maintaining quality of life, ensure safety, promote independence, and utilize retained abilities. The evidence for the effect of interventions should be appropriately designed to establish, modify, and maintain activities of daily living (ADLs), instrumental activities of daily living (IADLs), leisure, and social participation on quality of life (QOL), health and wellness, and client and caregiver satisfaction for people with Alzheimer's disease and related dementias¹⁸.

A retrospective study done by Elisie and her colleagues determined whether the multicomponent rehabilitation program of a memory clinic had positive outcomes on ameliorating everyday functioning, guality of life, mood and behavioral disturbances of persons with dementia and reducing distress and burden of caregivers. For persons with dementia (n = 22), participating in the program did not improve everyday functioning and cognition but ameliorated quality of life significantly (Z=-2.7, p=0.006, 95% CI (.003-.005)) and stabilized mood, emotional and behavioral disturbances for 60% or more of them. This program appears to be promising and valuable, and might reduce institutionalization rates.¹⁹

Adults with cerebral palsy need assistance to maximize their capabilities, interact with others, and achieve independence. They experience difficulty communicating their needs to successfully obtain medical/rehabilitation and independent living services, which are necessary to achieve independent living. Knowledge of the experience of such clients can help occupational therapists to better serve them²⁰. Following a six-week 3 hours per week clinical upper extremity functional training, study participants demonstrated significant and clinically meaningful functional improvements measured by motor activity log, Canadian occupational performance measure and wolf motor function test time scale. In contrast, the task oriented approach failed to demonstrate significant improvements on the wolf motor function test quality scale or on the impairment measures, upper extremity active range of motion and strength measures²¹.

Occupational therapy and ICF

The International Classification of Functioning, Disability and Health (ICF) is a framework to measure health and ability by illustrating how these components impact one's function. This relates very closely to the Occupational Therapy Practice Framework, as it is stated that "The profession's core beliefs are in the positive relationship between occupation and health and its view of people as occupational beings²². The ICF is also built into the second edition of the practice framework. Activities and participation examples from the ICF overlap Areas of Occupation, Performance Skills, and Performance Patterns in the framework. The ICF also includes contextual factors (environmental and personal factors) that relate to the context in the framework. In order to enhance occupational therapy reasoning in clinical practice, different elements such as client-centered approach, evidence-based care and interdisciplinary work should be taken into account, but is a challenge²³.

Although the ICF can be very useful for occupational therapists, it is noted in the literature that occupational therapists should use specific occupational therapy vocabulary along with the ICF in order to ensure correct communication about specific concepts²⁴. The ICF might lack certain categories to describe what occupational therapists need to communicate to clients and colleagues. It also may not be possible to exactly match the connotations of the ICF categories to occupational therapy terms. The ICF is not an assessment and specialized occupational therapy vocabulary should not be replaced with ICF terminology²⁵. As the health care system continues to evolve toward one based on quality not quantity, demonstrating the value of occupational therapy has never been more important. Providing high-quality services, achieving optimal outcomes and identifying and promoting occupational therapy's distinct value are the responsibilities of all practitioners²⁶.

Conclusion: Physically challenged persons face widespread barriers in accessing services such as those for health care (including rehabilitation), education, employment, social services including housing and transport. Occupational therapists can assess and treat to develop, recover, or maintain the daily living and work skills of people with a physical, mental, or cognitive disorder. Occupational therapy is well known as part of recovery for people who've had a stroke or surgery: it helps them relearn everyday activities and adjust to doing them differently. But occupational therapy can also make a difference for people struggling with the physical changes that accompany aging, such as hand arthritis or hip or knee problems that cause pain and problems with mobility. Creating links among occupation, occupational participation,

and health in ways that are understandable to the general public, other health professionals, policy makers, and society must be occupational therapy's mission. The profession must continue to strategize how occupational therapy becomes the leader, in the promotion of health, well-being, and quality of life. Ultimate goal is to bring these physically challenged persons into mainstream of development so that they can contribute to the national economy.

References:

- Yerxa, EJ, Clark, F, Jackson, J, Pierce, D, Zemke, R. An introduction to occupational science, a foundation for occupational therapy in the 21st century. OccupTher Health Care 1989; 6: 4.
- Eric Asaba, Mio Nakamura, AkieAsaba, and Anders Kottorp, "Integrating Occupational Therapy Specific Assessments in Practice: Exploring Practitioner Experiences," Occupational Therapy International, vol. 2017, 2017.
- M. Law, S. Baptiste, M. A. McColl, A. Opzoomer, H. Polatajko, and N. Pollock, "The Canadian occupational performance measure: an outcome measure for occupational therapy," Canadian Journal of Occupational Therapy, 1990; vol. 57, no. 2, pp. 82–87.
- 4. Fisher, A. G., & Jones, K. B., Assessment of Motor and Process Skills; Development, standardization, and administration manual 7th ed. 2012, Vol. 1 Fort Collins, CO: Three Star Press.
- G. Eriksson, K. Tham, and J. Borg, "Occupational gaps in everyday life 1–4 years after acquired brain injury," Journal of Rehabilitation Medicine, 2006, vol. 38, no. 3, pp. 159–65.
- A. G. Fisher, "Occupation-centered, occupation-based, occupation-focused: Same, same or different?" Scandinavian Journal of Occupational Therapy, 2013; vol. 20, no. 3, pp. 162–73,
- 7. Occupational Therapy Practice Framework: Domain and Process (3rd Edition)". *American*

Journal of Occupational Therapy. 2014; 68 (Suppl. 1): S1–S48.

- 8. Kristensen HK & Petersen KS, Occupational science, a contributor to occupational therapists Clinical reasoning, Scandinavian J of occupational therapy, 2016, vol 23 issue 3, p- 240-43.
- 9. Brownson, C. A.; Scaffa, M. E. "Occupational therapy in the promotion of health and the prevention of disease and disability statement". *American Journal of Occupational Therapy*2001; 55 (6): 656–60.
- Michael A. Pizzi; Lorie Gage Richards. Promoting Health, Well-Being, and Quality of Life in Occupational Therapy: A Commitment to a Paradigm Shift for the Next 100 Years. American Journal of Occupational Therapy, 2017;71: p1-7.
- 11. Paskulin LMG, Molzahn A (2007). Quality of life of older adults in Canada and Brazil. Western Journal of Nursing Research29(1): 10–26.
- 12. Walker A. A European perspective on quality of life in old age. *European Journal of Ageing* 2005; 2(1): 2–12
- Radomski, M.V.Occupational function, definition process and history, planning guiding and documenting practice InOccupational Therapy for Physical Dysfunction6th ed. 2008;edtrs. Baltimore, MD: Lippincott Williams & Wilkins p 40-60.
- 14. Yokoya T, Demura S, Sato S; Relationships between physical activity, ADL, capability and fall risk in community-dwelling Japanese elderly population. Environmental Health and Preventive Medicine 2007; 12: 25–32.
- Brown, C & Stoffel V. Occupational Therapy in Mental Health.A Vision for Participation.1st ed. FA Davis Company, Philadelphia. 2010.ISBN-13: 978.
- 16. World Health Organization. "Mental Health Atlas 2011". Retrieved 19 April 2012.
- 17. Cogan, A M. Supporting our military families: a case for a larger role for occupational

therapy in prevention and mental health care". American Journal of Occupational Therapy 2014; 64 (8): 478 – 83.

- Lori Letts; Mary Edwards; Julie Berenyi; Kathy Moros; Colleen O'Neill; Colleen O'Toole; et al; Using Occupations to Improve Quality of Life, Health and Wellness, and Client and Caregiver Satisfaction for People With Alzheimer's Disease and Related Dementias; American Journal of Occupational Therapy, September/October 2011, Vol. 65, 497-504.
- Elise Cornelis, Ellen Gorus, Ingo Beyer, Katrien Van Puyvelde, Siddhartha Lieten, et al; A retrospective study of a multicomponent rehabilitation program for community-dwelling persons with dementia and their caregivers British Journal of Occupational therapy; 2018Vol. 81, no. 1,p. 5–14
- Alice Kibele. Occupational Therapy's Role in Improving the Quality of Life for Persons With Cerebral Palsy. American Journal of Occupational Therapy, June 1989, Vol. 43, 371-77.
- 21. Khader A. Almhdawi, Virgil G. Mathiowetz, Matthew White,Robert C delMas.Efficacy of Occupational Therapy Task-oriented Approach in Upper Extremity Post-stroke

RehabilitationOccupational therapy International 2016 Vol 23 No. 4, p-444-56.

- 22. Roley SS, DeLany JV, Barrows CJ, Brownrigg S, Honaker D, Sava DI,et al ; Occupational therapy practice framework: domain & practice, Am J OccupTher. 2008 Nov-Dec;62(6):625-83.
- R. Ghysels,E. Vanroye,M. Westhovens &A. Spooren. A tool to enhance occupational therapy reasoning from ICF perspective: The Hasselt Occupational Performance Profile (H-OPP)Scandinavian Journal of Occupational Therapy . 2017, Volume 24; 2, p-126-35.
- Stamm, T.A., Cieza, A., Machold, K., Smolen, J.S., &Stucki, G. Exploration of the link between conceptual occupational therapy models and the International Classification of Functioning, Disability and Health. Australian Occupational Therapy Journal, 2006, vol- 53, p- 9-17.
- 25. Haglund, L., &Henriksson, C. Concepts in occupational therapy. Occupational Therapy International, 2003, vol- 10, p- 253-268
- Sandhu S, Furniss J and Metzler C; Using the New Post-acute Care Quality Measures to Demonstrate the Value of Occupational Therapy; The American journal of occupational therapy; 2018 vol 72, no. 2 p- 1-6.