

University of the Pacific Scholarly Commons

Occupational Therapy Student Capstones

Occupational Therapy Program

7-1-2024

Occupational Therapy's Role in Concussion Recovery for the Adult Population

Nikki Atis University of the Pacific

Follow this and additional works at: https://scholarlycommons.pacific.edu/ot-capstones

Part of the Occupational Therapy Commons

Recommended Citation

Atis, Nikki, "Occupational Therapy's Role in Concussion Recovery for the Adult Population" (2024). *Occupational Therapy Student Capstones*. 59. https://scholarlycommons.pacific.edu/ot-capstones/59

This Capstone is brought to you for free and open access by the Occupational Therapy Program at Scholarly Commons. It has been accepted for inclusion in Occupational Therapy Student Capstones by an authorized administrator of Scholarly Commons. For more information, please contact mgibney@pacific.edu.

Occupational Therapy's Role in Concussion Recovery for the Adult Population

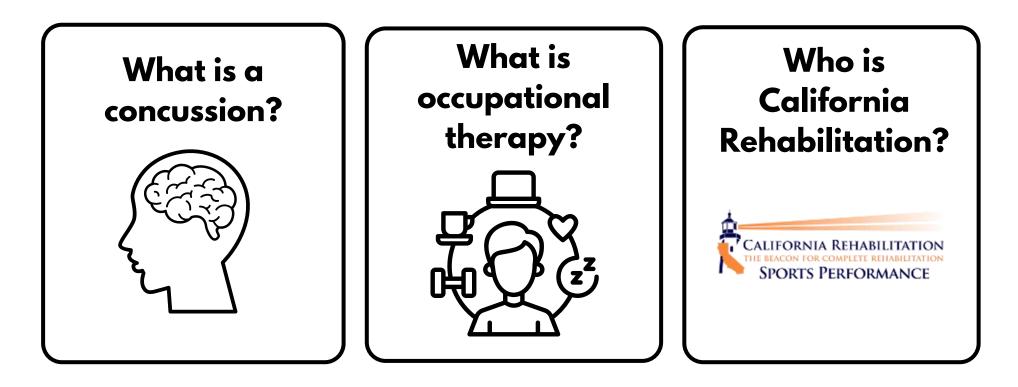


By: Nikki Atis, OTD/S, CNP Site Mentor: Dr. Abhinav Mahajan, DPT, CBC, DCE, ITPT UOP Mentor: Dr. Alexandria Herman, OTR/L, OTD



PACIFIC | School of Health Sciences

Background



(American Occupational Therapy Association [AOTA], 2020; California Rehabilitation, n.d.; Moen et al., 2022; Mucha & Trbovich, 2019; Nguyen et al., 2023; Silverberg et al., 2020; Wheeler & Acord-Vira, 2023)



UNIVERSITY OF THE PACIFIC | School of Health Sciences

Program Purpose

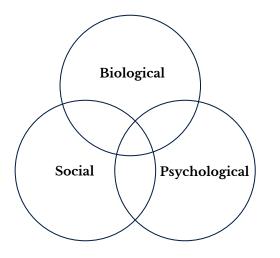
- <u>Explore</u> and <u>build</u> on existing knowledge of occupational therapy's role in concussion rehabilitation and management
- <u>Explore</u> evidence-based research regarding referral and screening protocols to determine need for occupational therapy services
- <u>Explore</u> clinical practice guidelines regarding recommendations for return to daily occupations
- <u>Explore</u> evidence-based research regarding development and dissemination of concussion education
- <u>Explore</u> evidence-based research regarding best practices to disseminate educational materials to a wide-range of individuals and communities

INIVERSITY OF THE School of Health Sciences

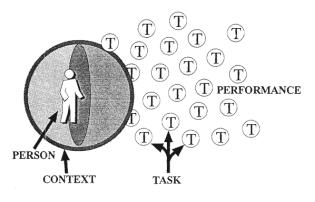


Guiding Theories

Biopsychosocial (BPS) Model

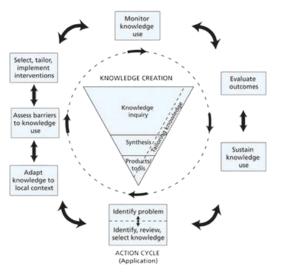


Ecology of Human Performance (EHP) Model



(Dunn et al., 1994)

Knowledge to Action (KTA) Framework



(Field et al., 2014)



(Gentry et al., 2018)

PACIFIC | School of Health Sciences



Lack of awareness surrounding occupational therapy's role on the interdisciplinary team



Lack of best practice guidelines for occupational therapy practitioners



Lack of standardized delivery or protocol for concussion education

<u>rsity of the</u>



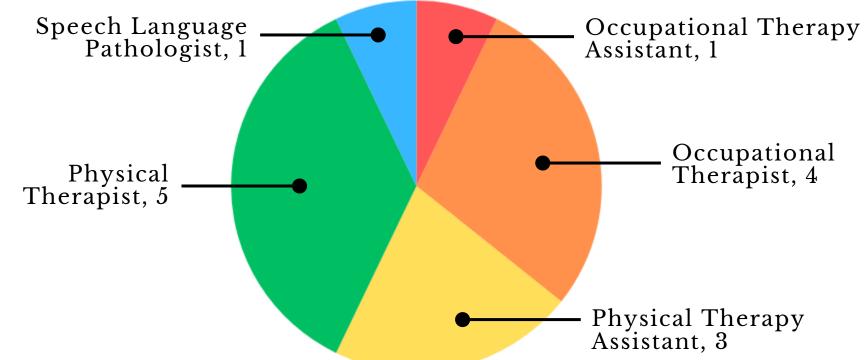
Semi-structured interview with Dr. Mahajan

(Caron et al., 2015; DePadilla et al., 2020; Esquivel et al., 2013; Finn, 2019a; Finn 2019b; King & Coughlan, 2021; Mallory et al., 2022; Moen et al., 2022; Stamm et al., 2020; Wan Yunus et al., 2022; Wheeler & Acord-Vira, 2023)

CIFIC | School of Health Sciences



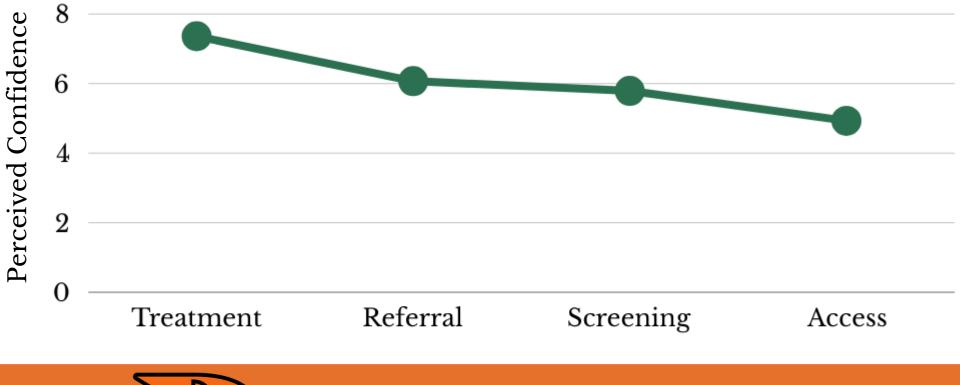
Demographic





UNIVERSITY OF THE PACIFIC | School of Health Sciences

"On a scale from 0-10..."



School of

Health Sciences





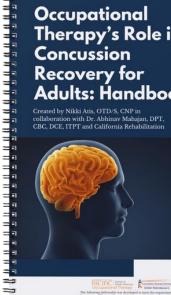
of respondents are not aware of the unique role that occupational therapists can provide to adults who have sustained a concussion or experience post-concussion symptoms

of respondents feel there is a role for occupational therapists to work with adults who have sustained a concussion or experience post-concussion symptoms



UNIVERSITY OF THE PACIFIC School of Health Sciences

Outcomes



Occupational Therapy's Role in Concussion **Recovery for** Adults: Handbook

Created by Nikki Atis, OTD/S, CNP in collaboration with Dr. Abhinav Mahajan, DPT CBC, DCE, ITPT and California Rehabilitation



collaboration with Dr. Abhinav Mahajan, DPT, = 1 CBC, DCE, ITPT and California Rehabilitation





Handbook

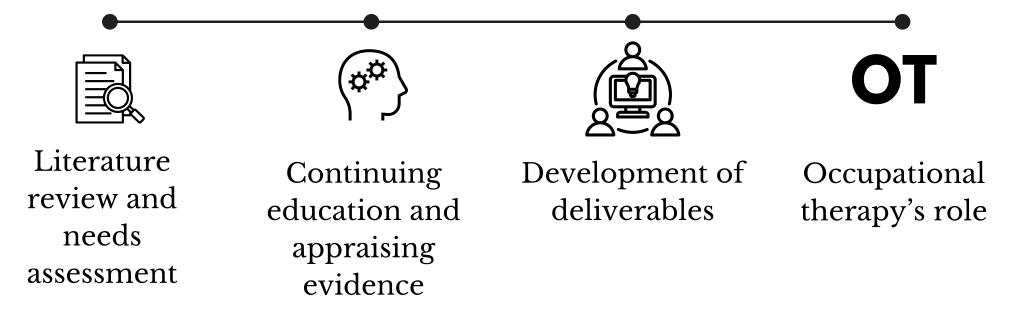
Protocols

Resource Website



UNIVERSITY OF THE ACIFIC School of Health Sciences

Discussion



(AOTA, 2020; Finn, 2019a; Roelke et al., 2022; Wheeler & Acord-Vira, 2023)



PACIFIC | School of Health Sciences



For me

For the profession

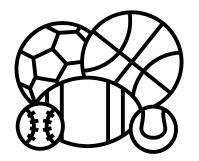
For the site and community



PACIFIC School of Health Sciences

Future Implications







Pediatric population

Sports-related concussions

Vestibular rehabilitation



UNIVERSITY OF THE CIFIC | School of Health Sciences

Acknowledgements









UNIVERSITY OF THE PACIFIC | School of Health Sciences

References

American Occupational Therapy Association. (2020). Occupational therapy practice framework: Domain and process—fourth edition. *American Journal of Occupational Therapy*, 74(Suppl. 2), 7412410010p1-7412410010p87. <u>https://doi.org/10.5014/ajot.2020.74S2001</u>

Aravich, D., & Troxell, L. (2021). Clinical practice guidelines for occupational therapists in the evaluation and treatment of oculomotor impairment following traumatic brain injury. *Current Physical Medicine and Rehabilitation Reports*, 9(3), 93-99. <u>https://doi.org/10.1007/s40141-021-00310-x</u>

California Rehabilitation. (n.d.). Physical therapists in Modesto in Modesto, Ripon & Turlock, CA. https://calirehab.com/

- Caron, J. G., Bloom, G. A., Falcão, W. R., & Sweet, S. N. (2015). An examination of concussion education programmes: A scoping review methodology. *Injury Prevention, 21*(5), 301-308. <u>http://dx.doi.org/10.1136/injuryprev-2014-041479</u>
- DePadilla, L., Miller, G. F., & Everett Jones, S. (2020). Characteristics of schools with youth sports concussion-related educational policies and practices. *The Journal of School Health*, 90(7), 520-526. <u>https://doi.org/10.1111/josh.12900</u>
- Dunn, W., Brown, C., & McGuigan, A. (1994). The ecology of human performance: A framework for considering the effect of context. *American Journal* of Occupational Therapy, 48(7), 595-607. <u>https://doi.org/10.5014/ajot.48.7.595</u>
- Esquivel, A., Haque, S., Keating, P., Marsh, S., & Lemos, S. (2013). Concussion management, education, and return-to-play policies in high schools: A survey of athletic directors, athletic trainers, and coaches. *Sports Health*, 5(3), 258-262. <u>https://doi.org/10.1177/1941738113476850</u>
- Field, B., Booth, A., Ilott, I., & Gerrish, K. (2014). Using the knowledge to action framework in practice: A citation analysis and systematic review. *Implementation Science*, 9(172), 1-14. https://doi.org/10.1186/s13012-014-0172-2
- Finn, C. (2019a). An occupation-based approach to management of concussion: Guidelines for practice. *The Open Journal of Occupational Therapy*, 7(2), 1-15. https://doi.org/10.15453/2168-6408.1550
- Finn C. (2019b). Occupational therapists' perceived confidence in the management of concussion: Implications for occupational therapy education. Occupational Therapy International, 2019, 1-6. <u>https://doi.org/10.1155/2019/9245153</u>

UNIVERSITY OF THE School of Health Sciences



References

- Gentry, K., Snyder, K., Barstow, B., & Hamson-Utley, J. (2018). The biopsychosocial model: Application to occupational therapy practice. *The Open Journal of Occupational Therapy*, 6(4), 1-19. <u>https://doi.org/10.15453/2168-6408.1412</u>
- King, C., & Coughlan, E. (2021). Blowing the whistle on concussion knowledge and education in youth sport referees. *Open Access Journal of Sports Medicine, 12*, 109-117. https://doi.org/10.2147/OAJSM.S324191
- Mallory, K. D., Saly, L., Hickling, A., Colquhoun, H., Kroshus, E., & Reed, N. (2022). Concussion education in the school setting: A scoping review. *Journal of School Health*, 92(6), 605-618. <u>https://doi.org/10.1111/josh.13156</u>
- Moen, E., McLean, A., Boyd, L. A., Schmidt, J., & Zwicker, J. G. (2022). Experiences of children and youth with concussion: A qualitative study. *American Journal of Occupational Therapy*, 76(4), 1-9. https://doi.org/10.5014/ajot.2022.047597
- Mucha, A., & Trbovich, A. (2019). Considerations for diagnosis and management of concussion. *Journal of Orthopaedic & Sports Physical Therapy*, 49(11), 787-798. <u>https://www.jospt.org/doi/10.2519/jospt.2019.8855</u>
- Nguyen, J. V., Willmott, C., Ponsford, J., Davies, K., Makdissi, M., Drummond, S. P. A., Reyes, J., Makovec Knight, J., Peverill, T., Brennan, J. H., & McKay, A. (2023). Moving forward on the road to recovery after concussion: participant experiences of interdisciplinary intervention for persisting post-concussion symptoms. *Disability and Rehabilitation*, 1-9. https://doi.org/10.1080/09638288.2023.2261374
- Silverberg, N. D., Iaccarino, M. A., Panenka, W. J., Iverson, G. L., McCulloch, K. L., Dams-O'Connor, K., Reed, N., & McCrea, M. (2020). Management of concussion and mild traumatic brain injury: A synthesis of practice guidelines. *Archives of Physical Medicine and Rehabilitation*, 101(2), 382-393. <u>https://doi.org/10.1016/j.apmr.2019.10.179</u>
- Stamm, J. M., Post, E. G., Baugh, C. M., & Bell, D. R. (2020). Awareness of concussion-education requirements, and -management plans and concussion knowledge in high school and club sport coaches. *Journal of Athletic Training*, 55(10), 1054-1061. <u>https://doi.org/10.4085/1062-6050-0394-19</u>

PACIFIC School of Health Sciences

UNIVERSITY OF THE



References

Wan Yunus, F., Ahmad Ridhuwan, N. F., & Romli, M. H. (2022). The perception of allied health professionals on occupational therapy. Occupational Therapy International, 2022, 1-8. <u>https://doi.org/10.1155/2022/2588902</u>

Wheeler, S., & Acord-Vira, A. (2023). Occupational therapy practice guidelines for adults with traumatic brain injury. *American Journal of Occupational Therapy*, 77(4), 1-50. https://doi.org/10.5014/ajot.2023.077401



UNIVERSITY OF THE
PACIFICSchool of
Health Sciences