

KNOWLEDGE AND ATTITUDES OF HEALTH PROFESSIONAL STUDENTS TOWARDS STROKE REHABILITATION TEAM

By

Moitry Chakraborty

4th Year, B.Sc. in Speech & Language Therapy Department

Session: 2016-2017

Supervised by

Md. Sazzad Hossain

Head & Assistant Professor

Department of Speech and Language Therapy

BHPI, CRP, Chapain, Savar, Dhaka-1343

Title: "KNOWLEDGE AND ATTITUDES OF HEALTH PROFESSIONAL STUDENTS TOWARDS STROKE REHABILITATION TEAM"

Aim of the study: : To investigate health professional students knowledge and attitude about the stroke rehabilitation team

Methodology: This is a quantitative type of cross-sectional survey study where 150 samples were assigned purposively from various medical college, health professions institute, nursing college, public universities in Bangladesh.

A questionnaire developed by Felsher & Ross (1994) was used for the study. Data was analyzed by using descriptive statistical analysis (SPSS= Statistical Package for the Social Sciences) method.

Result: The majority of the participants agreed with multiciliary team 65.3% approach for stroke rehabilitation teamwork. 85.30% students reported that they had known SLT has role in Aphasia.

Conclusion: In conclusion, this quantitative cross-sectional survey study design had to find out the knowledge and attitudes of final year students towards stroke rehabilitation team and also find out role of SLT's in the context of Bangladesh. The view represents

final year student's knowledge and attitudes of 6 disciplines (MBBS, Physiotherapy, Occupational Therapy, Speech and Language Therapy, Psychology and Nursing). Though this study, we come out the final year student's knowledge and attitudes towards the ideas of rehabilitation and teamwork principles, team models, stroke rehabilitation team leadership and other professional's role identification.

The outcome of the study will help both academic and clinical, for also patients and SLT professions to identify the health professional students lacking of knowledge and positive/negative attitude about collaborative inter-professional work and speech and language therapists practice areas as well as others professional's roles. This study also contains important implications of SLT profession for under graduation and post-graduation inter-disciplinary education, clarification for SLT professional's clinical role and most specifically public relations. The researcher suggests that to promote workshops, orientation programs or contact with other professional forums (students/professionals) throughout their study program.

Limitation:

Limitations in any work can occur for a variety of reasons. As a researcher worked through the research journey, she faced some situational limitations and barriers. While the result of this study is considered in various aspects, Those are-

- During the Covid-19 situation, investigators included a limited number of sample size responses.
- Researcher collected data from a few institutions, medical colleges and universities
- Another limitation of the survey is the use of a 3-point Likert scale, which would be replaced with a 5-point Likert in the future to improve test–retest reliability.

Recommendation:

The study questionnaire helped to find out the major views of health professional students towards teamwork and collaboration with others professionals. From the questionnaire, some further steps that might be taken for the better accomplishment of further research have been suggested here-

- The researcher's target population were students of MBBS, B.Sc. in OT, B.Sc. in PT, B.Sc. in SLT, Psychology, B.Sc. in Nursing. Suggestion for further recommendation using this similar questionnaire on qualified professionals (medical doctors specializing in the hospital stroke rehabilitation team). That will help to establish the extent to which their attitude and knowledge are related to their experience.
- An effectiveness study can occur in an existing inter-display stroke rehabilitation team unit to measure the effectiveness of such an approach for future teamwork practice.
- The SLT's role in the cleft palate or laryngectomy team can be investigated by using a questionnaire to assess the knowledge and attitude of medical doctors towards the patients involved in the surgery.
- Investigate the knowledge and attitude of Occupational Therapy and Physiotherapy students towards the SLT's role in the inter-disciplinary management of different disabilities.
- A comparison study of the views of different discipline students (example: occupational therapy students and physiotherapy students) with those of Speech and Language Therapy students.
- Further study can also be done using a mixed study design.

References:

Babiker, A., el Husseini, M., al Nemri, A., al Frayh, A., al Juryyan, N., O Faki, M.,
Assiri, A., al Saadi, M., Shaikh, F., & al Zamil, F. (2014). Health care
professional development: Working as a team to improve patient care. Sudanese
journal of paediatrics. *Sudanese Journal of Paediatrics*, 14(2), 9–16.
https://www.ncbi.nlm.nih.gov/pubmed/27493399

Bailey, D. M. (Ed.). (1997). Research for the Health Professionals: a practicle guide, (2^{nd} ed.) . USA: Davis Company.

Barton, A. (2009). Patient safety and quality: An evidence-based handbook for Nurses. *AORN Journal*, 90(4), 601-602. doi:10.1016/j.aorn.2009.09.014

- Bernhardt, J., Urimubenshi, G., Gandhi, D. B., & Eng, J. J. (2020). Stroke rehabilitation in low-income and middle-income countries: A call to action. *The Lancet*, 396(10260), 1452-1462. doi:10.1016/s0140-6736(20)31313-1
- Bernhardt, J., Urimubenshi, G., Gandhi, D. B., & Eng, J. J. (2020). Stroke rehabilitation in low-income and middle-income countries: A call to action. *The Lancet*, 396(10260), 1452-1462. doi:10.1016/s0140-6736(20)31313-1
- Byrne, Á, & Pettigrew, C. M. (2010). Knowledge and attitudes of allied health professional students regarding the stroke rehabilitation team and the role of the speech and language therapist. *International Journal of Language & Communication Disorders*, 45(4), 510-521. doi:10.3109/13682820903222791
- Christensen, C., & Larson, J. R. (1993). Collaborative Medical Decision making. *Medical Decision Making*, *13*(4), 339-346. doi:10.1177/0272989x9301300410

Duffy, J,R. (Ed.). (2005). Motor Speech Disorder (2nd ed.) USA:Mosby.

- Dworzynski, K., Ritchie, G., & Playford, E. D. (2015). Stroke rehabilitation: Long-term rehabilitation after stroke. *Clinical Medicine*, 15(5), 461-464. doi:10.7861/clinmedicine.15-5-461
- Eddy, K., Jordan, Z., & Stephenson, M. (2016). Health professionals' experience of teamwork education in Acute Hospital settings. JBI Database of Systematic Reviews and Implementation Reports, 14(4), 96-137. doi:10.11124/jbisrir-2016-1843

- Eldar, R., Kullmann, L., Marincek, C., Sekelj-Kauzlarić, K., Švestkova, O., & Palat, M. (2008). Rehabilitation medicine in countries of Central/Eastern Europe. *Disability* and Rehabilitation, 30(2), 134-141.doi:10.1080/0963828070119177
- Felsher, L., & Ross, E. (1994). The knowledge and attitudes of occupational therapy, physiotherapy and speech-language therapy students, regarding the speechlanguage therapist's role in the Hospital Stroke Rehabilitation Team. *South African Journal of Communication Disorders*, 41(1).doi:10.4102/sajcd.v41.256
- Gibbon, B., Watkins, C., Barer, D., Waters, K., Davies, S., Lightbody, L., & Leathley, M. (2002). Can staff attitudes to team working in stroke care be improved? *Journal of Advanced Nursing*, 40(1), 105-111. doi:10.1046/j.1365-2648.2002.02345.x
- Gimigliano, F., & Negrini, S. (2017). The World Health Organization "Rehabilitation 2030: A call for action". *European Journal of Physical and Rehabilitation Medicine*, 53(2). doi:10.23736/s1973-9087.17.04746-3
- Guidelines for management of Ischaemic Stroke and transient ischaemic attack 2008. (2008). *Cerebrovascular Diseases*, 25(5), 457-507. doi:10.1159/000131083
- Hall, P., & Weaver, L. (2001). Interdisciplinary education and teamwork: A Long and Winding Road. *Medical Education*, 35(9), 867-875. doi:10.1046/j.1365-2923.2001.00919.x
- Hicks, C, M.(2000). Research methods for clinical therapists (3rd ed.). London:Churchill Livingstone.
- Ingram, H., & Desombre, T. (1999). Teamwork in health care. *Journal of Management in Medicine*, 13(1), 51-59. doi:10.1108/02689239910261354
- Insalaco, D., Ozkurt, E., & Santiago, D. (2007). The perceptions of students in the Allied Health Professions towards stroke rehabilitation teams and the SLP's role. *Journal* of Communication Disorders, 40(3), 196-214. doi:10.1016/j.jcomdis.2006.06.007
- Johnson, W., Onuma, O., Owolabi, M., & Sachdev, S. (2017, December 08). Stroke: A global response is needed. Retrieved January 12, 2022, from https://www.who.int/bulletin/volumes/94/9/16-181636/en/
- Langhorne, P. (2003). Evidence behind stroke rehabilitation. *Journal of Neurology*, *Neurosurgery & Psychiatry*, 74(90004), 18iv-21.doi:10.1136/jnnp. doi:10.1136/jnnp.74.suppl_4.iv18

- Langhorne, P., & Baylan, S. (2017). Early supported discharge services for people with acute stroke. *Cochrane Database of Systematic Reviews*, 2017(7). https://doi.org/10.1002/14651858.cd000443.pub4
- Langhorne, P., Williams, B., Gilchrist, W., & Howie, K. (1993). Do stroke units save lives? *The Lancet*, *342*(8868), 395-398. doi:10.1016/0140-6736(93)92813-9
- Logemann, J.A. (1998). Evaluation And Treatment of Swallowing Disorder. United States of America: Pro-ed.
- Lopez, A. D., Mathers, C. D., Ezzati, M., Jamison, D. T., & Murray, C. J. (2006). Global and regional burden of disease and risk factors, 2001: Systematic analysis of population health data. *The Lancet*, 367(9524), 1747-1757. doi:10.1016/s0140-6736(06)68770-9
- Mamin, F. A., Islam, M. S., Rumana, F. S., & Faruqui, F. (2017). Profile of stroke patients treated at a rehabilitation centre in Bangladesh. *BMC Research Notes*, 10(1). doi:10.1186/s13104-017-2844-x
- Mitchell, P. H., Wynia, M. K., Golden, R., McNellis, B., Okun, S., Webb, C. E., Von Kohorn, I. (2012). Core principles & values of effective team-based health care. *NAM Perspectives*, 2(10). doi:10.31478/201210c
- Morrow, E. L., Turkstra, L. S., & Duff, M. C. (2021). Confidence and training of speechlanguage pathologists in cognitive-communication disorders: Time to rethink graduate education models? *American Journal of Speech-Language Pathology*, 30(2S), 986-992. doi:10.1044/2020_ajslp-20-00073
- National Institute of Neurological Disorders & Stroke. (2021). Post-stroke rehabilitation fact sheet. Retrieved January 12, 2022, from https://www.ninds.nih.gov/Disorders/Patient-Caregiver-Education/Fact-Sheets/Post-Stroke-Rehabilitation-Fact-Sheet

National Institute of Neurological Disorders and Stroke. (2021). *NINDS / Post-Stroke Rehabilitation*. NINDS. Retrieved January 7, 2022, from https://www.stroke.nih.gov/materials/rehabilitation.htm

Nisbet, G., Hendry, G. D., Rolls, G., & Field, M. J. (2008). Interprofessional learning for pre-qualification health care students: An outcomes-based evaluation. *Journal of Interprofessional Care*, 22(1), 57-68. doi:10.1080/13561820701722386

- Perna, R., & Harik, L. (2020). The role of rehabilitation psychology in stroke care described through case examples. *Neuro Rehabilitation*, 46(2), 195–204. https://doi.org/10.3233/NRE-192970
- Ryan, A. A., & McKenna, H. P. (1994). A comparative study of the attitudes of Nursing and medical students to aspects of patient care and the nurse's role in organizing that care. *Journal of Advanced Nursing*, 19(1), 114-123. doi:10.1111/j.1365-2648.1994.tb01059.x
- Sacco, R. L., Kasner, S. E., Broderick, J. P., Caplan, L. R., Connors, J. Culebras, A., Vinters, H. V. (2013). An updated definition of stroke for the 21st Century. *Stroke*, 44(7), 2064-2089. doi:10.1161/str.0b013e318296aeca
- Soklaridis, S., Oandasan, I., & Kimpton, S. (2007). Family Health Teams: Can Health Professionals Learn to Work Together? *Can Fam Physician*, *53*(7), 1198–1199. https://pubmed.ncbi.nlm.nih.gov/17872817/
- Strasser, D. C., Falconer, J. A., & Martino-Saltzmann, D. (1994). The rehabilitation team: Staff perceptions of the hospital environment, the interdisciplinary team environment, and Interprofessional relations. *Archives of Physical Medicine and Rehabilitation*, 75(2), 177-182. doi:10.1016/0003-9993(94)90392-1
- Strasser, D. C., Falconer, J. A., Herrin, J. S., Bowen, S. E., Stevens, A. B., & Uomoto, J. (2005). Team functioning and patient outcomes in stroke rehabilitation. *Archives of Physical Medicine and Rehabilitation*, 86(3), 403-409. doi:10.1016/j.apmr.2004.04.046
- Stroke in Bangladesh. (2018). World Life Expectancy. Retrieved January 10, 2022, from https://www.worldlifeexpectancy.com/bangladeshstroke#:%7E:text=Bangladesh%3A%20Stroke%20According%20to%20the%20la test%20WHO%20data,of%20population%20ranks%20Bangladesh%20%2341%2 0in%20the%20world.
- Veloor, S. (2022). The importance of stroke awareness and prevention: The University of Kansas St. Francis Campus. Retrieved January 12, 2022, from https://kutopeka.com/news/importance-stroke-awareness-and-prevention
- Venketasubramanian, N., & Mannan, M. (2021, July 09). Stroke burden and stroke services in Bangladesh. Retrieved January 12, 2022, from https://doi.org/10.1159/000517234

- Vyt, A. (2008). Interprofessional and transdisciplinary teamwork in health care. Diabetes/Metabolism Research and Reviews, 24(S1), S106–S109. https://doi.org/10.1002/dmrr.835
- Warlow, C. P., & Warlow, C. (2008). Stroke practical management (3rd ed.). Malden, MA: Blackwell Pub. Retrieved January 11, 2022, from https://www.wiley.com/enus/Stroke%3A+Practical+Management%2C+3rd+Edition-p-9780470696361.
- White, M. J., Gutierrez, A., McLaughlin, C., Eziakonwa, C., Newman, L. S., White, M., Thayer, B., Davis, K., Williams, M., & Asselin, G. (2013). A Pilot for Understanding Interdisciplinary Teams in Rehabilitation Practice. *Rehabilitation Nursing*, 38(3), 142–152. https://doi.org/10.1002/rnj.75
- WHO. (2008). Classifying health workers : Mapping occupations to the international standard classification. World Health Organization, 1–14. Retrieved January 12, 2022, fromhttps://www.who.int/hrh/statistics/Health_workers_classification.pd
- WHO. (2008). Classifying health workers : Mapping occupations to the international standard classification. World Health Organization, 1–14. Retrieved January 12, 2022, fromhttps://www.who.int/hrh/statistics/Health_workers_classification.pd

[N.B. For better understanding of the study, please see hard copy & for any further information please contact: moitryslt@gmail.com]