

EVIDENCE THAT AN INTERVENTION ON ATTITUDINAL PREDICTORS OF INTER-PROFESSIONAL TEAM BUILDING AMONG HEALTHCARE PROFESSIONALS GIVES IMPROVEMENT IN NIGERIA?

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ABSTRACT

Introduction: The Nigerian health sector faces intricate inter-professional challenges in the aspect of incessant inter-professional friction among healthcare professionals that lead to poor outcomes. This study aims to investigate evidence that an intervention on attitudinal predictors of inter-professional team building among healthcare professionals gives improvement.

Methods: This was a longitudinal prospective study design using a multistage sampling technique to select respondents working at a tertiary health facility in Nnewi, Nigeria. The conceptual framework for intervention was a mix of models. There was the evaluation of change on eight variables of attitudinal predictors of inter-professional team building three months post-intervention.

Results: A total of 121 professionals were interviewed. Respondents that agreed inter-professional team building to benefit their organization were 87(71.8%) and 111(91.8%) at pre- and post-intervention phases ($p<0.01$), respondents that agreed to participate in inter-professional team building were 86(70.7%) and 110(90.9%) at pre- and post-intervention phases ($p<0.01$), respondents that agreed to recommend inter-professional team building to improve inter-professional working relationship were 81(67.1%) and 117(97.1%) at pre- and post-intervention phases ($p<0.01$), respondents that disagreed to inter-professional team building as waste of time and money were 83(63.3%) and 121(100%) at pre- and post-intervention phases ($p<0.01$), respondents that agreed to recommend inter-professional team building to resolve conflict were 65(53.7%) and 114(93.9%) at pre- and post-intervention phases ($p<0.01$), respondents that agreed assertive behaviour, cooperative attitude and courage to disagree were attitudinal predictor competencies components for effective inter-professional team membership were 44(36.6%) and 96(79.1%), 87(71.9%) and 118(97.5%) and 58(47.6%) and 82(67.6%) respectively at pre- and post-intervention phases ($p<0.01$).

Conclusion: This study showed there is an evidence-based consistent improvement of a minimum of 20% (20% to 42.5%) with a significant statistical difference across all eight variables of attitudinal predictors of inter-

professional team building among healthcare professionals in Nigeria. It is therefore recommended that the Federal Ministries of Health and Science and Technology, and related Ministries, Departments and Agencies of the Federal Government of Nigeria implement interventions on attitudinal predictors of inter-professional team building among healthcare professionals to fast track Medical Biotechnology for Nigeria to achieve the Sustainable Development Goals of the United Nations.

KEYWORDS: *Intervention, Attitudinal Predictors, Inter-Professional Team Building, Healthcare, Professionals, Nigeria*

REFERENCES

1. Efebere HA, Tabowei BI, Anyabolu AE, et al. A Comparative Study on knowledge of Team building between healthcare workers in two federal tertiary health facilities in different geopolitical zones of Nigeria. *J of Health, Med and Nurs.* 2017;43:82-92.
2. Federal Government of Nigeria. National Human Resources for Health Strategic Plan 2008-2012. Federal Ministry of Health Abuja publication, 2007 [cited 2012 May 20]: 1-84. Available from who.int/workforcealliance/countries/Nigeria_HRHStrategicPlan_2008_2012.pdf
3. Oandasan I, Baker GR, Barker K, Bosco C, D'Amour D, Jones L, et al. Teamwork in healthcare: Promoting effective teamwork in healthcare in Canada. Policy synthesis and recommendations. Canadian Health Services Research Foundation, 2006 [cited 2020 Jan 22]: 1-46. Available from: https://www.hhr-rhs.ca/index.php?option=com_mtree&task=viewlink&link_id=5311&Itemid=109&lang=en
4. Ogbimi RI, Adebamowo CA. Questionnaire survey of working relationships between nurses and doctors in University Teaching Hospitals in Southern Nigeria. *BMC Nurs.* 2006 Feb 21;5:2.
5. Adeniji FO. Groupthink among health workers: The Nigerian Perspective. *Researcher Journal.* 2012;2(5):1-4.
6. Iyang US. Interprofessional conflict in Nigeria health care system. *Nigerian Journal of Health Planning and Management.* 2007;3:47-50.
7. Ogbimi RI. Career development: the unexplored source of job satisfaction in the Nigerian health care delivery system. *Journal Nig Inst Mgt.* 2007;38:23-33.
8. Sweet SJ, Norman IJ. The nurse-doctor relationship: a selective literature review. *J of Adv Nursing.* 2005;22:165-170.
9. Health Nairaland Forums. Why the professional rivalry and disharmony among medical and health workers? 2012 May 11 [cited 2012 October 2]:20. Available from <http://www.nairaland.com/935694/why-professional-rivalry-disharmony-among>
10. Alubo SO. The political economy of doctors strikes in Nigeria: a Marxist interpretation. *Soc Sc Med.* 2008;22:467-477.

11. Institute of Health Service Administration of Nigeria at the 2007 National Conference. General Meeting and National workshop. In *J inst.* 2007;3(1):45-46.
12. Abiodun AJ. Patients satisfaction with quality attributes of primary health care services in Nigeria. *J Health Mgt.* 2010;12(1):39-59.
13. Hope JM, Lugassy DM, Meyer R, Jeanty F, Meyers SP. Bringing Interdisciplinary and multicultural team building to health care education: The Downstate Team building Initiative. *Academic Medicine.* 2005;80(1):74-83
14. Coster S, Norman I, Murrells T, Kitchen S, Meerabeau E, Sooboodoo E, d'Avray L. Interprofessional attitudes amongst undergraduate students in the health professions: a longitudinal questionnaire survey. *Int J Nurs Stud.* 2008 Nov;45(11):1667-81.
15. Morey JC, Simon R, Jay GD, Wears RL, Salisbury M, Dukes KA, Berns SD. Error reduction and performance improvement in the emergency department through formal teamwork training: evaluation results of the MedTeams project. *Health Serv Res.* 2002 Dec;37(6):1553-81.
16. Lia-Hoagberg B, Nelson P, Richard A. An Interdisciplinary Health team training programme for school staff in Minnesota. *Journal of School Health.* 2009;67(3):94-97.
17. Grogan EL, Stiles RA, France DJ, Speroff T, Morris JA, Nixon B et al. The impact of aviation-based teamwork training on the attitudes of healthcare professionals. *J Am Coll Surg.* 2004;199:843-848.
18. United States Department of Health and Human Services. Medical team training: the evidence-based relation. Agency for Healthcare Research and Quality. 2005[cited 2014 December 2]: 1-5. Available from <http://www.ahrq.gov/research/findings/final-reports/medteam/chapter4.html>.
19. Crew Resource Management. Crew resource management: aviation safety. Crew resources management.net. 2014 [cited 2014 December 2]: 1; 1-2. Available from www.crewresourcemanagement.net/2.html
20. Bebetos E, Theodorakis ND, Tsigilis N. Relations between role ambiguity and athletes' satisfaction among team handball players. *Sports Journal.* 2007;24(10):35-45.
21. Burke SE, Stagl KC, Klein KC, Goodwin GE, Salas E, Halpin SM. What type of leadership behaviours are functional in teams? : A meta-analysis. *The Leadership Quarterly.* 2006;17: 288-307.
22. Gilboa S, Shirom A, Fried Y, Cooper C. A meta-analysis of work demand stressors and job performance: examining main and moderating effects. *Personal psychology.* 2008;61(2):227-271.
23. Findlay LC, Coplan RJ. Come out and play shyness in childhood and the benefits of organized sports participation. *Canadian Journal of Behavioural Sc.* 2008;40:153-161.
24. Fraser T, Core J. Youths sports: implementing findings and moving forward with research. *Athletic Insight.* 2006;8(3):12-27.
25. Katzenbach JR, Smith DK. The discipline of teams. *Harvard Business Review.* 2005;83:1-9.

26. Goette L, Huffman D, Meiers S. The impact of group membership on cooperation and norm enforcement: Evidence using random assignment to real social groups. *American Economic Reviews*. 2006;96(2):212-216.
27. Marriner TA, Raile AM. *Nursing theorists and their work*. 5th ed. St. Louis: Mosby; 2005. pp.1-200.
28. Polit DF, Beck CT. *Nursing Research: principles and methods*. 7th ed. Philadelphia: Lippincott Williams and Wilkins; 2007. pp.1-218
29. Potter PA, Perry AG. *Fundamentals of nursing*. 6th ed. St. Louis: Elsevier Mosby; 2006. pp.1-90
30. Federal Government of Nigeria. *National Population Census*. National Population Commission publication. 2006, pp.1-7
31. Ministry of Health Awka, Anambra State. *Health Facilities in Nnewi North Local Government Area*. Anambra State Government publications; 2012. pp.1-8
32. Nnamdi Azikiwe University Teaching Hospital. *Five-Year Strategic Plan 2007-2011*. Nnamdi Azikiwe University Teaching Hospital publication. 2007, pp.1-30
33. Nnamdi Azikiwe University Teaching Hospital Nominal Roll of staff. Nnamdi Azikiwe University Teaching Hospital publication, 2012 Apr 20: 1-20.
34. Walter SD. Determination of significant relative risks and optimal sampling procedures in prospective and retrospective comparative studies of various sizes. *Am J Epidemiol*. 1977 Apr;105(4):387-97
35. Aronu CO, Bilesanmi AO. Assessing the knowledge, attitude and factors affecting team-building among health workers in Nigeria using the permutation method for Hotelling T-squared analysis. *American Journal of Theoretical and Applied Statistics*. 2013;2(6):184-190.
36. Williams KY, O' Reilly CA, Barsade S. *The Impact of Relational Demography on Teamwork. When Majorities are in the Minorities*. Graduate School of Business. Stanford University publications; 2009, pp.1-45.
37. Kvarnstrom S. Difficulties in collaboration: A critical incident study of interprofessional healthcare teamwork. *Journal of Interprofessional Care*. 2008;22(2):191-203.
38. Pinnock H, Huby G, Tierney H, Powell A, Kielmann T. Is a multidisciplinary team the key? A qualitative study of the development of respiratory services in the UK. *J Royal Soc Med*. 2009;102(9):378-390.
39. Leggat SG. Effective healthcare teams require effective team members: defining teamwork competencies. *BMC Health Services Research*. 2007;7:17
40. Leggat SG, Bartram T, Stanton P, Fraser B. Exploring the lack of progress in improving patient safety in Australian hospitals. In *Working Paper*. Melbourne, La Trobe University Publications; 2005. pp.1-19.
41. Leggat SG, Dwyer J. Improving hospital performance: culture change is not the answer. *Healthcare Quarterly*. 2005;8(2):60-66.

42. Stanton P, Bartram T, Harbridge R. Human Resources Management practices in the public health sector: lessons from Victoria, Australia. *Journal of European Industry and Training*. 2006;28(2/3/4):310-328.
43. Institute of Medicine (US) Committee on Quality of Health Care in America. *Crossing the Quality Chasm: A New Health System for the 21st Century*. Washington (DC): National Academies Press (US); 2001. pp.1-337.
44. Farmer EA. Assessing the performance of doctors in teams and systems. *Medical Education*. 2006;36(10):942-948.