

## CURRICULUM VITAE

### A. PERSONAL DATA

1) **Full Name:** ODETUNDE Marufat Oluyemisi.

### B. EDUCATIONAL BACKGROUND

#### 1. Higher Educational Institutions Attended with Dates

- |                                          |             |
|------------------------------------------|-------------|
| a. University of Ibadan, Ibadan, Nigeria | 1995 - 2000 |
| b. University of Ibadan, Ibadan, Nigeria | 2003 - 2004 |
| c. University of Ibadan, Ibadan, Nigeria | 2008 –2016  |
| d. University College, London            | 2025        |
| e. Imperial College, London              | 2025        |

#### 2. Academic/Professional Qualifications and Distinctions Obtained with Dates

- |                                                       |      |
|-------------------------------------------------------|------|
| a. Bachelor of Science Degree- B. Sc. (Physiotherapy) | 2000 |
| b. Master of Science Degree - M. Sc. (Physiotherapy)  | 2004 |
| c. Master of Philosophy -M.Phil. (Physiotherapy)      | 2008 |
| d. Doctor of Philosophy Ph. D. (Neuro-Physiotherapy)  | 2016 |
| e. Introduction to Implementation Science             | 2025 |
| f. Introduction to Digital Health                     | 2025 |

#### 3. Other Distinctions and Awards with dates

##### a. Fellowships: Post-doctoral and Training

- |                                                                                                                                                                                                                                                                                                                           |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| i. African Research Excellence Fund (AREF): Essential Grant<br>Writing Skills Fellowship Award                                                                                                                                                                                                                            | 2021      |
| ii. Ife Institute of Advanced Studies Fellowship Award                                                                                                                                                                                                                                                                    | 2024      |
| iii. AREF Research Development Fellowship Award (Ongoing)<br>Principal investigator in ‘Building capacity and fostering<br>collaborative approaches to feasibility and implementation<br>research in community-reintegration of stroke survivors<br>in Nigeria (OAU Ile-Ife and Manchester Metropolitan<br>University, UK | 2024-2025 |

## **b. Research Grants**

### **Co-investigator**

- i. Analysis of Sleep Quality and Quantity among Male Undergraduate Students Using Orthopaedic Mattresses funded by Mouka Nigeria Limited at Obafemi Awolowo University, Ile-Ife Total Value: ₦900, 000 (Completed) 2022
- ii. Development and Pilot-Testing of Clinical Decision Support System for Musculoskeletal Conditions funded by Health Research and Knowledge Exchange Funding Grant (Manchester Metropolitan University, UK) at Obafemi Awolowo University, Ile-Ife. Total Value: £5000 (Ongoing) 2022-2023

### **Principal Investigator**

- i. Development, Feasibility Testing and Implementation of a Context and Culturally Sensitive Home-Exercise Mobile Health Application for Nigerian Stroke Survivors funded by TETFUND Total Value: ₦24,861, 736.38 (Ongoing) 2023

### **Training Grant**

- i. Researcher Development Fellowship grant of the Africa Research Excellence Fund (AREF) on Building capacity and fostering collaborative approaches to feasibility and implementation research in community-reintegration of stroke survivors in Nigeria Total value: £36,000 Role Principal Investigator (Ongoing) 2023-2024

### **Foreign Clinical Training**

- i. Visiting Clinical Physiotherapist at the Edmond and Lilly Safra Paediatric Congenital Cardiac Centre of the Sheba Medical Centre, Tel-Hashomer, Israel as a member of the open-heart surgical Team of the Obafemi Awolowo University Teaching Hospitals

|                                                                                       |                |      |
|---------------------------------------------------------------------------------------|----------------|------|
| Complex, Ile-Ife, Nigeria                                                             | March to April | 2018 |
| <b>c. National Award</b>                                                              |                | Nil  |
| <b>d. International Award</b>                                                         |                | Nil  |
| <b>e. Other Distinction and Awards</b>                                                |                |      |
| i. Tinuke Oshinubi Prize in Physiotherapy.<br>(University of Ibadan, Ibadan, Nigeria) |                | 2000 |
| ii. Ajike Ajao Prize in Physiotherapy<br>(University of Ibadan, Ibadan, Nigeria)      |                | 2000 |

### **C. WORK EXPERIENCE WITH DATES**

#### **1. Previous Work Experience outside the University system**

|                                                                                                  |            |
|--------------------------------------------------------------------------------------------------|------------|
| a. Intern Physiotherapist: University of Ilorin Teaching Hospital,<br>Ilorin, Kwara State.       | 2000-2001  |
| b. National Youth Corps Member: Ring Road State Hospital,<br>Ibadan, Oyo state                   | 2001-2002  |
| c. Physiotherapist: Oyo State Hospitals' Management Board,<br>Ibadan, Oyo State.                 | 2002-2006  |
| d. Senior Physiotherapist: Oyo State Hospitals' Management Board,<br>Ibadan Oyo State            | 2006-2009  |
| e. Physiotherapist: Obafemi Awolowo University Teaching Hospitals<br>Complex, Ile-Ife            | 2009-2013. |
| f. Principal Physiotherapist: Obafemi Awolowo University Teaching<br>Hospitals Complex, Ile-Ife. | 2014-2016. |
| g. Chief Physiotherapist at Obafemi Awolowo University Teaching<br>Hospitals Complex, Ile-Ife    | 2017-2019  |

#### **2. Previous Work Experience in Other Universities:**

|                                                                   |           |
|-------------------------------------------------------------------|-----------|
| a. Visiting Research Fellow at Manchester Metropolitan University | 2024-2025 |
| b. Shadow Teaching at Manchester Metropolitan University          | 2024-2025 |

#### **3. Work Experience in Obafemi Awolowo University**

|               |           |
|---------------|-----------|
| a. Lecturer I | 2019-2021 |
|---------------|-----------|

- b. Senior Lecturer
- c. Reader

2021-2024  
2024 till present

#### **4. Courses Taught within the Current Academic Session**

##### **a. Undergraduate**

- i. MRH 301-Kinesiology in Medical Rehabilitation
- ii. MRH 302-Pathokinesiology in Medical Rehabilitation
- iii. MRH 303-Medical conditions in Physiotherapy and Occupational Therapy
- iv. MRH 304-Surgical conditions in Physiotherapy and Occupational Therapy
- v. MRH 401-Exercise Therapy and Remedial Gymnastics I
- vi. MRH 414 - Exercise Therapy and Remedial Gymnastics II
- vii. MRH 409: Clinical Work (Part IV)
- viii. MRH 504: Dissertation
- ix. MRH 501: Clinical Work (Part V)

##### **b. Postgraduate**

- i. MRH 716: Clinical Procedures for Improvement of Motor Control
- ii. MRH 717- Neurologic Physiotherapy
- iii. MRH 705- Paediatric Physiotherapy
- iv. MRH 815-Foundations of Motor Control

#### **5. Graduate Students Supervision**

Current Research Supervision:

##### **a. By Research**

- i. RASAQ Wasiu Abiodun (BMSP22/23/H/0349): Development and Validation of a Clinical Decision Support System for the Diagnosis of Peripheral Nerve Injuries of the Upper and Lower Limbs. M.Sc. research (Ongoing)
- ii. ADEMOYEGUN Adekola Babatunde (BMSP19/20/H/1062): Effects of Passive Range of Motion Exercises on Selected Biomarkers and Psycho-physical Outcomes in Patients with Acute Ischaemic Stroke. PhD research (Completed)
- iii. OJOGEADE Asegun (BMSP): Comparative effects of video-guided and conventional balance and gait training exercise programmes on psychophysical

outcomes among community-dwelling stroke survivors. M.Sc. Research (Ongoing)

## **6. Current Undergraduate Supervision**

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## **D. MEMBERSHIP OF PROFESSIONAL BODIES**

- |                                                                    |                |
|--------------------------------------------------------------------|----------------|
| 1. Society for the Study of Pain in Nigeria                        | 2011 till date |
| 2. Association of Academic and Clinical Physiotherapist in Nigeria | 2017 till date |
| 3. International Society of Quality-of-Life                        | 2018 till date |
| 4. World Stroke Organization                                       | 2020 till date |
| 5. African Stroke Organization                                     | 2020 till date |

## **E. PUBLICATIONS**

### **1. Theses /Dissertation**

- i. **Owawusi M.O** (2000): Relationship between active knee extension and sit-and-reach flexibility tests. Department of Physiotherapy, University of Ibadan, Ibadan, Nigeria (B. Sc. Dissertation)
- ii. **Odetunde M.O.** (2004): Quality of life of patients with spinal cord injury in selected states of south-western Nigeria. Department of Physiotherapy, University of Ibadan, Ibadan, Nigeria (M. Sc. Dissertation)
- iii. **Odetunde M.O.** (2016): Cross-cultural adaptation and psychometric testing of the Stroke-Specific Quality of life scale into the three major Nigerian languages. Department of Physiotherapy, University of Ibadan, Ibadan, Nigeria (Ph. D. Thesis).

### **2. Books / Monographs**

Authored: Nil

Edited: Nil

### **3. Contribution to Books: Nil**

### **4. Published Journal Articles**

- i. **Odetunde M. O.**, Akosile A. C., Akinpelu O. A., Jaiyesimi A. O., Iyaniwura A. D., Johnson O. E. (2007): Impact of Selected Socio-demographic Variables on Quality of Life of

- Individuals with Spinal Cord Injury. *Journal of International Confederation of Health, Physical Education, Recreation Sports and Dance Africa Region (ICHPER-SD)*; 2(2):43-47 (USA)
- ii. Akinpelu O. A., **Odetunde M. O.**, Odole A. C. (2012): Cross-cultural adaptation and initial validation of the Stroke-Specific Quality of Life scale into the Yoruba language. *International Journal of Rehabilitation Research*; 35(4):339-44 (United Kingdom)
  - iii. Obembe A. O., Olaogun M. O. B., Bamikole A. A., Komolafe M. A., **Odetunde M. O.**, (2014): Awareness of Risk factors and warning signs of Stroke in a Nigeria University. *Journal of Stroke and Cerebrovascular Diseases*; 23(4): 749-58. (USA)
  - iv. Maruf F. A., Muonwe C., **Odetunde M. O.** (2015). Social risk factors for falls among rural Nigerian community-dwelling older adults. *Geriatrics and Gerontology International*; 16 (6): 747-756. DOI:10.1111/ggi.12548 (Japan)
  - v. **Odetunde M. O.**, Olatubosun T. O., Omisore O. B., Awotidebe T. O., Borode T., Adedoyin R. A., (2017). Respiratory and Hemodynamic Responses to Selected Physiotherapy Procedures administered on Critically-ill Patients. *Journal of Nigeria Society of Physiotherapy*; 22: 1-5. (Nigeria)
  - vi. **Odetunde M. O.**, Akinpelu A. O., Odole A. C. (2017). Validity and Reliability of a Nigerian-Yoruba version of the Stroke-Specific Quality of Life scale 2.0. *Health and Quality of Life Outcomes*; 15 (205): 1-12 (USA)
  - vii. **Odetunde M. O.**, Akinpelu A. O., Odole A. C. (2018). Cross-cultural adaptation and validation of the stroke specific quality of life 2.0 scale into Hausa language. *Journal of Patient-Reported Outcomes*; 2 (63) 1-14 (USA)
  - viii. Ilesanmi O. T., Erhabor G. E., Akinsolure A., Ogundele A., **Odetunde M. O.**, Oyewo A. H. (2018). Socio-demographic Characteristics of Secondary School Students and their knowledge and perceptions of asthma in Ile-Ife, South-West Nigeria. *Texila International Journal of Medicine*; 6(1):17-31. (Guyana, South America)
  - ix. Maruf F. A., **Odetunde M. O.**, and Okonkwo P. U. (2020) Association between physical activity level and blood pressure: varied and graded mediating effects of obesity indices in schoolchildren. *Cardiology in the Young*; 30 (1): 82-88. DOI: 10.1017/S1047951119003172 (UK)

- x. Mbada C. E.,<sup>2</sup> Olakorede D. B., Igwe C. F., Fatoye C. T., Olatoye F. S. , Oyewole A. I., Okonji A. M., **Odetunde M. O.**, Odole A. C., Fatoye F. (2020). Knowledge, Perception, and Use of Medical Applications among Health Professions' Students in a Nigerian University. *Journal of Medical Education*. 19 (2): e103405. **(Iran)**
- xi. **Odetunde M. O.**, Odole A. C., Odunaiya N. A., Odetunde N. A., Okoye E. C., Mbada C. E., Umunna J. O., Akinpelu A. O. (2020). Cross-cultural adaptation and validation of the Igbo language version of the stroke-specific quality of life 2.0. *Pan African Medical Journal*; 37 (111). DOI: 10.11604/pamj.2020.37.111.19557 **(Kenya)**
- xii. Odetunde N. A., Oyegbade O. O., **Odetunde M. O.**, Bello I. S., Abioye-Kuteyi E. A. (2020). The Influence of Sociodemographic Characteristics on Caregivers' Burden and Quality Of Life of Elderly Diabetics Attending a Nigerian Tertiary Hospital. *Nigerian Medical Journal* 63(1): 43-49 **(Nigeria)**
- xiii. **Odetunde M. O.**, Binuyo O. T., Maruf F. A., Ayenowowon S. O., Okonji A. M., Odetunde N. A, Mbada C. E. (2020). Development and feasibility testing of video home based tele rehabilitation for stroke survivors in resource limited settings. *International Journal of Telerehabilitation*; 12 (2): 124-136. DOI 10.5195/ijt.2020.6321 **(USA)**
- xiv. Awotidebe T. O., Olawoye A. A., Fasakin O. M., **Odetunde M. O.**, Okonji A. M., Afolabi T. O., Odunlade A. J., Bello O. S., Adedoyin R. A. (2020). Relationships between body somatotype and handgrip strength of young Nigerian undergraduate students. *Archives of Physiotherapy and Global Researches*; 24(2): 17-26 **(Poland)**
- xv. **Odetunde M. O.**, Ajibola B. O., Ilesanmi O.T., Okonji A. M., Ojoawo A. O., Awotidebe T. O., Odetunde N. A., Omisore O. B., Mbada C. E. (2021). Health-related quality of life of health professionals in a tertiary health institution of southwestern Nigeria: a cross-sectional survey. *Open Journal of Medical Research*; 2(2): 75 - 89 **(Nigeria)**
- xvi. Onigbinde A.T., **Odetunde M. O.**, Okonji A. M., Ayoade A. S., Adewuni A. S. (2021). Reliability and Concurrent Validity of a Clinical Syringe with 5mm-Nozzle in the Quantification of Topical Methyl Salicylate. *Journal of Health Research*; 5(2):69-77 **(Thailand)**
- xvii. Awotidebe T.O, **Odetunde M.O.**, Okonji A.M., Odunlade A.J., Fasakin O.M., Olawoye A.A, Ayesoru B.P, Adedoyin R.A., Kolawole B.A. (2021). Relationships between Hand Grip Strength, Upper Limb Anthropometric Characteristics and Hand Disability in Middle-

- Aged and Older Adults with Type-2 Diabetes Mellitus. *International Journal of Diabetes and Clinical Research*; 8 (1): 135. DOI: 10.23937/2377-3634/1410135 (USA)
- xviii **Odetunde M. O.**, Ibrahim S. O., Oluwagbade G. T., Odole A. C., Mbada C. E., Komolafe A.M. (2022). Development and Effectiveness Testing of a Mobile Health Educational Package for Stroke Prevention among Stroke Survivors. *Journal of Healthcare Communications*; 7 (9): 101-112 (United Kingdom)
- xix **Odetunde M. O.**, Odedeyi O. T., Owojuyigbe A.M., Aaron O. I., (2022). Knowledge and attitude of health professionals on palliative care of terminally ill patients in a tertiary health institution of southwestern Nigeria: A cross sectional study. *Open Journal of Medical Research*; 3 (2): 50-66 (Nigeria).
- xx **Odetunde M.O**, Okonji A.M, Adeoye A.P, Onigbinde A.T. (2024). Acceptance and adoption of tele-rehabilitation by physiotherapists from Nigeria, a low resource setting: a mixed-method study. *Bulletin of Faculty of Physical Therapy*; 29 (23). DOI: <https://doi.org/10.1186/s43161-024-00181-y>. (Egypt)
- xxi **Odetunde M.O.**, Olaoye O.A., Oghogwo H.O, Onigbinde A.T (2024). Do facilitators and barriers to community ambulation differ among stroke survivors in low resource settings? A cross-sectional study in Nigeria. *Topics in Stroke Rehabilitation* 1-13. DOI: 10.1080/10749357.2024.2411876 (United Kingdom)
- xxii **Odetunde M.O**, Olaoye O. A., Obajobi O. A., Abdullah Akinlabi Yusuf A. A., Awotidebe T.O (2024). Adherence to home-based exercise program among stroke survivors and perspectives of informal caregivers: a mixed method study. *Bulletin of Faculty of Physical Therapy* 29:57. DOI: <https://doi.org/10.1186/s43161-024-00224-4> (Egypt)
- xxiii Ademoyegun A.B., Awotidebe T.O., **Odetunde M.O**, Inaolaji S.O., Bakare S.O., Azeez F.W., Olayemi O. (2024). Association of baseline plasma fibrinogen levels with cognitive and affective status at 30 and 90 days in individuals with ischemic stroke: A prospective study from Nigeria. *Brain Circulation* 10:308-315. DOI: 10.4103/bc.bc 52\_24 (India)
- xxiv. **Odetunde M.O.**, Nwankwo J.C., Owojuyigbe A.M., Aaron O.I., Okonji A.M. (2024): Assessment of Knowledge and Attitude to Palliative Care among Undergraduate Clinical Physiotherapy Students in Nigerian Universities. *Bayero Journal of Evidence-Based Physiotherapy (African Journals Online)*. BAJEBAP 2024; 9(1): 544-560
- xxv\* **Odetunde M.O**, Makinde A.F, Jimoh O. M, Mbada C. E, Niyi-Odumosu F, Fatoye F. F

(2025). Physical activity, fatigue severity and health-related quality of life of community-dwelling stroke survivors: A cross-sectional study. *Bulletin of Faculty of Physical Therapy* 30:9. DOI: <https://doi.org/10.1186/s43161-025-00267-1> (**Egypt**)

\*Publication added after the last promotion

- xxvi\* Ademoyegun A.B., Awotidebe T.O., **Odetunde M.O**, Inaolaji S.O., Bakare S.O., Azeez F.W., Olayemi O. (2025). Effects of very early exercise on inflammatory markers and clinical outcomes in patients with ischaemic stroke- a randomized controlled trial. *BMC Neurology* 25:121. DOI: <https://doi.org/10.1186/s12883-025-04132-5> (UK)
- xxvii\* Okonji A., **Odetunde M.**, Ibrahim R., Govender P. (2025). Development, effectiveness, and usability of a home-based exercise education video on neck control among Nigerian children with cerebral palsy. *Bulletin of Faculty of Physical Therapy* 30:31  
DOI: <https://doi.org/10.1186/s43161-025-00289-9> (**Egypt**)
- xxviii\* Ademoyegun A.B., Awogboro O.I., Ojo E.T., Ibitoye A.G., **Odetunde M.O.**, Awotidebe T.O. (2025). Long-term impact of very early exercise after ischaemic stroke on return to work, participation, and quality of life: a one-year follow-up of a randomised controlled trial. *Bulletin of Faculty of Physical Therapy* 30:60. DOI: <https://doi.org/10.1186/s43161-025-00324-9> (Egypt)
- xxix\* **Odetunde M.**, Gebrye T., Mbada C., Niyi-Odumosu F., Fatoye F. (2026): Determinants of Health Outcomes of Stroke Survivors in Africa: A Systematic Review and Meta-Analysis. *Journal of Stroke and Cerebrovascular Diseases*. 35: 108569  
<https://doi.org/10.1016/j.jstrokecerebrovasdis.2026.108569>
- xxx\* Gebrye, T., Mbada, C., Niyi-Odumosu, F., Fatoye, C., **Odetunde, M.**, Hakimi, Z., Useh, U. and Fatoye, F. (2026). Cost-effectiveness of artificial intelligence interventions for musculoskeletal disorders of the spine: a systematic review. *Rheumatology International*, 46(6):107.
- xxxi\* **Odetunde, M.O**, Gebrye, T., Mbada, C., Niyi-Odumosu, F. and Fatoye, F. (2026). A systematic review of determinants of psychosocial health outcomes of stroke survivors in low- and middle-income countries. *Discover Public Health*, 23(1): 900.
- xxxii\* Olaoye, O.A., **Odetunde, M.O.**, Adejumobi, A.S., Abiola, O.E. and Oshomoji, O.I., (2026). Feasibility Testing of Context-Specific Home-Based Action-Observation-Therapy

on Upper Limb Functions Among Nigerian Stroke Survivors. *Rehabilitation Science, 11(2): 9-36.*

\*Publication added after the last promotion

## 5. Manuscripts Accepted for Publication

### 6. Edited Conference Proceedings

- i. Edited and Referred Conference Proceedings Nil

### 7. Manuscripts Submitted for Publication

- i. **Odetunde M.O**, Olaoye O.A, Semudara S.O, Adediwura V.O., Okonji A.M (2025). Is a context-specific cartoon-based stroke education effective among Nigerian Undergraduates? A pre-test-post-test study. A manuscript submitted to *Pan African Medical Journal*
- ii. Olaoye O.A, **Odetunde M.O**, Adejumobi A.S., Efunsanmi T.M., Akande M.A. (2025). Effect of task-based bilateral arm training on upper extremity motor functions among rural and urban community-dwelling stroke survivors in Nigeria. A manuscript submitted to *Open Journal of Medical Research*
- iii. **Odetunde M.O**, Olaoye O.A, Ogunmola A., Adedoyin A., Oshomoji O.I (2025). Physiotherapy interventions for stroke rehabilitation: a systematic review for the development of consensus-based guideline for Nigeria A manuscript submitted to *Bulletin of Faculty of Physical Therapy*

### 8. Creative Works

- i. Video Home-based Stroke Exercises- Development of video home based tele-rehabilitation for stroke survivors using Yoruba as language of instruction
- ii. Audiovisual Stroke Prevention Education Tool- Development of audiovisual mobile health based educational package for stroke prevention among stroke survivors using Yoruba as language of instruction
- iii. Video Home-based Neck Control Exercises- Development of home-based exercise education video on neck control for Nigerian children with cerebral palsy
- iv. Mobile Health Exercise Application- Development of context and culturally sensitive mobile-health home-exercise for Nigerian stroke survivors (Hausa and Yoruba languages)

- v. Stroke Prevention Audio Drama- Developed an evidence-based stroke prevention script from a scientific review and produced an audio drama for public health education in English and Yoruba languages.
- vi. WhatsApp-based digital support network: Launched a WhatsApp group to provide digital support network connecting stroke survivors, caregivers, and professionals

9. **Technical Reports** Nil

10. **Papers and Work in Progress**

- i. Determinants of health outcomes of stroke survivors in Africa: a systematic review and meta-analysis
- ii. Determinants of psychosocial health outcomes of stroke survivors in low and middle-income countries: a systematic review
- iii. Effectiveness of cartoon-based stroke prevention education on stroke literacy and risk level among general populations and those with stroke risk factors
- iv. Development of physiotherapy protocol for stroke survivors in Nigeria

## F. PROFESSIONAL ACCOMPLISHMENTS

My interest in measuring health outcomes in neurological-rehabilitation with little or no barriers as a clinician inspired me into providing culture-specific stroke outcome measure; Stroke-Specific Quality of Life scale for stroke survivors in Nigeria into Hausa, Igbo and Yoruba languages for my doctoral thesis. As a Chief physiotherapist in the OAUTHC, I headed a unit at inception, which was involved in multidisciplinary patient care. I coordinated my unit members effectively and contributed to good overall patient outcome and reduced length of hospital admission. Recently, I developed a video home-based tele-physiotherapy for stroke patients, and exercise education video on neck control for Nigerian children with cerebral palsy with proven evidence of feasibility and applicability. I also developed an audio-visual mobile-health educational package for stroke prevention among stroke survivors. I have won three research grants, two as co-investigator and one as a principal investigator to develop technological based clinical decision support system and mobile health exercise applications which I and colleagues are working on currently. I also won a post-doctoral research development fellowship grant 2024 to 2025, during which I underwent

capacity building for community reintegration of stroke survivors in Nigeria. This training empowered me to pioneer community and digital health initiatives to reduce stroke burden in Nigeria. I produced a bilingual (English–Yoruba) 2-hour radio drama on stroke prevention, which was broadcast nationwide on over 40 Federal Radio Corporation of Nigeria stations and regionally on Osun state radio station Orisun FM in Ile-Ife. I also launched a WhatsApp-based digital support network connecting stroke survivors, caregivers, and professionals across six hospitals, where I and colleagues provide audiovisual education and rehabilitation tools, professional advice and support, with increased engagement by 125% within three months of commencements.

#### **G. CONFERENCES, SEMINARS AND WORKSHOPS ATTENDED**

- i. 53<sup>rd</sup> Annual Scientific Conference Organized by the Nigeria Society of Physiotherapy. 29th October to 2nd November 2013. Akure, Ondo state.
- ii. Publication Oriented Clinical Practice: Disseminating Research Findings from Clinical Practice, a workshop organized by National Postgraduate Physiotherapy College of Nigeria in Akure, Ondo state. 29th October 2013.
- iii. Medical Rehabilitation Therapists Board of Nigeria in conjunction with Osun state chapter of Nigeria society of Physiotherapy. A 2-day Continuous Professional Development programme held in Ile-Ife from 23<sup>rd</sup> to 24<sup>th</sup> September 2014.
- iv. Association of Clinical and Academic Physiotherapists of Nigeria. 1st Annual Scientific Conference held in Ile-Ife, Osun state from 18th to 21st October 2017.  
Paper presented
  - a. Validity and reliability of a Nigerian-Yoruba version of the stroke-specific quality of life scale 2.0. 1st Annual Scientific Conference of Association of Clinical and Academic Physiotherapists of Nigeria
- v. Nigerian Cardiac Society. 47<sup>th</sup> Annual General and Scientific Meeting held in Kano, Kano state from 18<sup>th</sup> to 22<sup>nd</sup> September 2018.
- vi. 3<sup>rd</sup> Scientific Conference and Annual General Meeting of Association of Clinical and Academic Physiotherapists of Nigeria. 14th to 19th October 2019, Port-Harcourt, Rivers state, Nigeria  
Paper presented
  - a. Odetunde NA, Oyegbade OO, **Odetunde MO**, Bello IS, Abioye-Kuteyi. Role of caregivers' burden on Quality of Life of elderly diabetics attending a Nigerian tertiary hospital.

- b. **Odetunde MO**, Odole AC, Odunaiya NA, Odetunde NA, Okoye EC , Mbada CE, Umunna JO, Akinpelu AO. Cross-cultural adaptation and validation of the Igbo language version of the stroke-specific quality of life 2.0
- vii. International Society of Quality of Life 27<sup>th</sup> Annual Conference 12<sup>th</sup> to 20<sup>th</sup> October 2020 (Virtual)  
Paper presented
  - b. **Odetunde M.O**, Ajibola B.O, Odetunde N.A, Okonji A.M, Mbada C.E (2020). Health-related quality of life of health professionals in a Nigerian tertiary health institution: a cross-sectional survey. 27th Annual Conference of the International Society for Quality-of-Life Research. (2020). Quality of life research: an international journal of quality-of-life aspects of treatment, care and rehabilitation, 29 (Suppl. 1), 1–196.
- viii. 4<sup>th</sup> Scientific/1<sup>st</sup> Virtual Conference of Association of Clinical and Academic Physiotherapists of Nigeria. 13<sup>th</sup> to 14<sup>th</sup> November 2020 (Virtual)  
Paper Presented
  - a. **Odetunde MO**, Binuyo OT, Mbada CE, Maruf FA, Ayenowowon SO, Okonji AM, Odetunde NA Development and feasibility testing of a video home-based tele-rehabilitation for stroke survivors.
  - b. Awareness of stroke risk factors and warning signs among rural-dwelling Nigerian adults.
- ix. Promoting Excellence in Teaching (PET 2018/2019). A training programme in Basic Methodologies of Teaching, Organised for new Academic members of staff of Obafemi Awolowo University, Ile-Ife, Nigeria from 2<sup>nd</sup> to 11<sup>th</sup> September 2019
- x. Mentoring Orientation Workshop 2019/2020. A workshop on mentoring guidelines, people dynamics, life purpose road map for early career researchers. Organised by Central Office of Research, Obafemi Awolowo University, Ile-Ife. Nigeria from 21<sup>st</sup> to 22<sup>nd</sup> January 2020
- xi. Association of Clinical and Academic Physiotherapists of Nigeria. 5<sup>th</sup> Scientific Conference and Annual General Meeting held in Lagos, Nigeria from 19<sup>th</sup> to 22<sup>nd</sup> October 2021
- xii. World Stroke Congress 13<sup>th</sup> Annual Conference held from 28<sup>th</sup> to 29<sup>th</sup> October 2021 (Virtual)  
Paper presented
  - a. **Odetunde M.O**, Adesola I. Effects of Printed Home Exercise Program on Muscle Spasticity, Functional Independence and Quality of Life of Stroke Survivors
- xiii. African Stroke Organization. 1st (Inaugural) conference held from 3<sup>rd</sup> to 4<sup>th</sup> November 2021. (Virtual)  
Paper Presented

- a. **Odetunde M.O.**, Oluwagbade G.T., Komolafe M.A. Development and Effectiveness Testing of a Video-Based Educational Package for Secondary Stroke Prevention Knowledge among stroke survivors. Inaugural Scientific Conference of the African Stroke Organization 3-4 November 2021, Nigeria
- xiv. National Health Research Ethics Committee, Ministry of Health, Abuja A 2-day Ethics Refresher Training ‘CONTEMPORARY ISSUES IN HEALTH RESEARCH ETHICS’ held from April 6-7. Obafemi Awolowo University Teaching Hospital, Ile-Ife, Nigeria
- xv. World Stroke Congress, 14th Annual Conference held from 26<sup>th</sup> to 29<sup>th</sup> October 2022. Singapore  
Paper Presented
  - a. **Odetunde M.O.**, Olaoye O.A., Yusuf A.A., Obajobi O.A. **Factors Affecting** Adherence to Home-Based Exercise Programmes among Stroke Survivors: Perspectives of Stroke Survivors and their Caregivers. 14th World Stroke Congress, Singapore, 26-29 October 2022. International Journal of Stroke. 2022; 17(3\_suppl):3-288. doi:10.1177/17474930221125973
- xvi. Artificial Intelligence for Females in Science, Technology, Engineering and Mathematics. Capacity Development Workshop. 20<sup>th</sup>- 23<sup>rd</sup> November 2022. Summit University, Offa, Kwara state, Nigeria
- xvii. Conference of Scientific of World Federation for Neurorehabilitation (Africa Region) and African Stroke Organization. 2<sup>nd</sup> and 3<sup>rd</sup> November 2022. (Virtual)  
Paper Presented
  - a. **Odetunde M.O.**, Olaoye O.A., Oghogwo H.O. Facilitators and Barriers to Community Ambulation among Stroke Survivors. 2<sup>nd</sup> Scientific Conference of the African Stroke Organization 2-3 November 2022, Nigeria
- xviii. Global Perspectives on Medicine, Rehabilitation and Robotics Webinar Series. Robotics for Assisted Gait: Engineering and Medical Perspectives from Canada. Virtual 19<sup>th</sup> October 2022
- xix. 15<sup>th</sup> International Multi-Conference on ICT Applications. Application of Information and Communications Technology to Teaching, Research and Administration. Obafemi Awolowo University, Ile-Ife, Nigeria. 23<sup>rd</sup> to 26<sup>th</sup> October 2022
- xx. Global Perspectives on Medicine, Rehabilitation and Robotics Webinar Series. Robotics for Early Motor Intervention: Past Insights and new Frontiers. 21 September 2022. (Virtual)
- xxi. Obtaining research Funding (Tricks of the trade). Faculty of Clinical Science, College of Health Sciences, Obafemi Awolowo University, Ile Ife, Nigeria. Online 21 September 2022

- xxii. African Research Excellence Fund Women in Research Leadership Programme: August to December 2022 (Virtual)
- xxiii. The African Research Excellence Fund Women in Research Essential Grant Writing Skills Workshop, 13 to 17 Sep 2021 & 18 to 20 Oct 2021 (Virtual)
- xxiv. Ife Institute of Advanced Studies. Decolonizing Science Research: The ‘why’ and ‘How’. 21 to 25 November 2023 (Virtual)
  
- xxv. 10<sup>th</sup> Annual Faculty Week of the Faculty of Basic Medical Sciences, Obafemi Awolowo University. Exercise is Medicine. April 17<sup>th</sup> -19<sup>th</sup> 2023.  
Paper presented
  - a. **Odetunde M.O.**, Semudara S.O. Effectiveness of Cartoon-based Stroke Prevention Educational among Undergraduate Students of Obafemi Awolowo University. 10<sup>th</sup> Annual Faculty Week of the Faculty of Basic Medical Sciences, Obafemi Awolowo University. April 17<sup>th</sup> -19<sup>th</sup> 2023. Nigeria
  - b. **Odetunde M.O.**, Adeoye P.A. Acceptance and Adoption of tele-rehabilitation by physiotherapists in Nigeria. 10<sup>th</sup> Annual Faculty Week of the Faculty of Basic Medical Sciences, Obafemi Awolowo University. April 17<sup>th</sup> -19<sup>th</sup> 2023. Nigeria
  
- xxvi. African Stroke Organization Conference and World Federation of Neurological Rehabilitation. Hybrid Conference (University of Ibadan) 30<sup>th</sup> October to 2<sup>nd</sup> November 2023.  
Paper Presented
  - a. **Odetunde M.O.**, Odusoga A. Assessment of family needs of caregivers of stroke survivors. *The Lancet Neurology* 2024; 23: 459–60.
  - b. **Odetunde M.O.**, Semudara S.O. Effectiveness of Cartoon-Based Stroke Prevention Education among Undergraduates of Obafemi Awolowo University, Ile-Ife, Nigeria. *The Lancet Neurology* 2024; 23: 459–60.
  
- xxvii. Ife Institute of Advanced Studies. Ife Summer Institute: Building Communities of Practice: Interdisciplinary Collaboration and Academic Leadership in Africa. Obafemi Awolowo University, Ile Ife, Nigeria. 22 July to 2 August 2024.
  
- xxviii. 11th European Stroke Organisation Conference. Helsinki, Finland. 21<sup>st</sup> to 23<sup>rd</sup> May 2025  
Paper Presented
  - a. **Odetunde M**, Olaoye O, Ogungbe O, Opadara T, Kolawole O, Ilesanmi O, Ogudamen M, Akanji O, Mbada C, Fatoye F (2025): Feasibility of Context-Specific Community Re-integration Guidelines for Stroke Survivors in Nigeria. 11th European Stroke Organisation Conference. Helsinki, Finland.
  - b. Odetunde M, Oyedele M, Gebrye T, Mbada C, Niyi-Odumosu F, Fatoye F (2025): Sexual Dysfunction, Psychosocial Factors, and Social Support among Community-Dwelling Stroke Survivors. 11th European Stroke Organisation Conference. Helsinki, Finland.

- xxix. World Physiotherapy Congress 2025, Chiyoda, Tokyo. 29<sup>th</sup> – 31<sup>st</sup> May 2025  
Paper Presented
- a. Okonji A, **Odetunde M**, Obidake E, Govender P (2025): Development and Feasibility Testing of a Social Media Interactive Platform for Primary Caregivers of Children with Cerebral Palsy in Nigeria. World Physiotherapy Congress 2025, Chiyoda, Tokyo. 29<sup>th</sup> – 31<sup>st</sup> May 2025
  - b. Okonji A, **Odetunde M**, Mutairu S, Mbada C, Adedoyin R (2025): Development and usability testing of an adapted sex position education booklet among stroke survivors and spouses. World Physiotherapy Congress 2025, Chiyoda, Tokyo. 29<sup>th</sup> – 31<sup>st</sup> May 2025

## **H. CURRENT RESEARCH ACTIVITIES**

- i. Accessing climate justice awareness among persons with physical disabilities in southwest Nigeria
- ii. Feasibility testing of a community re-integration guideline for stroke survivors in Nigeria
- iii. Development and pilot-testing of clinical decision support system for musculoskeletal conditions
- iv. Development and feasibility testing of a clinical decision support system for peripheral nerve injuries of upper and lower limbs
- v. Development and feasibility testing of a video home-based exercise and movement strategies for patients with Parkinson's disease
- vi. Development, feasibility testing and implementation of a context and culturally sensitive home-exercise mobile health application for Nigerian stroke survivors

## **I. OTHER RELEVANT INFORMATION**

### **1. Service within the Department**

- a. Chief Coordinator, Bachelor of Medical Rehabilitation Programme 2021-2022
- b. Part V Adviser Bachelor of Medical Rehabilitation Programme 2019 till date
- c. Member DPT Curriculum Development Committee

### **2. Service within the Faculty:**

- a. Member, Faculty Board of Studies 2019 till date
- b. Member LOC Faculty week 2023
- c. Member LOC Faculty week 2025

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|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| d.    | Member Faculty Review panel                                                                                                                                                                              | 2023/2024      |
| e.    | Member Faculty Dress code and Ethics panel                                                                                                                                                               | 2025           |
| 3.    | <b>Service within the College:</b>                                                                                                                                                                       |                |
| a.    | Departmental representative for result and transcript processing committee for the College of Health Sciences                                                                                            | 2021           |
| b.    | Member, College Academic Board                                                                                                                                                                           | 2024-2025      |
| 4.    | <b>Service within the University:</b>                                                                                                                                                                    |                |
| a.    | Faculty representative for transcript processing                                                                                                                                                         | 2021           |
| b.    | Invigilation of University examinations and in-courses in the Faculty of Science                                                                                                                         | 2019 till date |
| 5.    | <b>Service outside the University:</b>                                                                                                                                                                   |                |
| i.    | INEC Collation Officer, Ife North Local Government                                                                                                                                                       | 2023           |
| b.    | Public lectures/activities                                                                                                                                                                               |                |
| i.    | Health screening and cardiovascular risk factors awareness talk to secondary schools' students in Ile-Ife. Organized by Association of Clinical and Academic Physiotherapists of Nigeria Ile-Ife chapter | 2016           |
| ii.   | Guest speaker at the annual conference of The Believing Women Organization, Ile-Ife                                                                                                                      | 2017           |
| iii.  | Guest speaker at the end of the year programmes UNIFEMGA Preparatory School, Ile-Ife                                                                                                                     | 2018           |
| iv.   | Free Health screening for adults and elderly people in Ile-Ife and environs. A personal project                                                                                                          | 2018           |
| v.    | Health education and fitness programme for a local community women group                                                                                                                                 | 2018-2019      |
| vi.   | Guest speaker at children holiday programme on prevention of drug abuse and promotion of healthy lifestyle by OAU Muslim Women group                                                                     | 2019           |
| vii.  | Resource person, drug and human trafficking at Youth Camping Programme by Federation of Muslim Women Association of Nigeria (FOMWAN) May 7                                                               | 2022           |
| viii. | Resource person, radio health talk on importance of exercises in the maintenance of good health May 31                                                                                                   | 2022           |
| ix.   | Resource person, Health benefits of pelvic floor muscle exercises by Women group delivered on WhatsApp. October 8                                                                                        | 2022           |
| x.    | Resource person at children and youth holiday                                                                                                                                                            |                |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|     | programme on ‘Balanced Muslimah, safe Navigating of the youngsters in the 21 <sup>st</sup> century’ by OAU Muslim Women group August 4-6                                     | 2023 |
| xi. | Member, Welfare/Disciplinary committee of children and youth holiday programme on ‘Towards Youth engagement for responsible leadership by OAU Muslim Women group August 9-11 | 2024 |

**c. Reviewer for the following Journals**

- i. Open Journal of Medical Research
- ii. Topics in Stroke Research
- iii. Journal of Multidisciplinary Health
- iv. BMC Complementary Medicine

**J. CONTRIBUTION TO KNOWLEDGE**

My research advances understanding and practice in health outcomes assessment, prevention, and rehabilitation of neurological conditions, particularly stroke, among individuals and populations at risk. I focus on developing and implementing context-specific, evidence-based interventions that address the facilitators and barriers to effective rehabilitation and health outcomes. Through both conventional and digital innovations including tele-physiotherapy and other digital health tools, my work bridges research and practice to improve health-related quality of life and functional recovery. Additionally, I contribute to knowledge on the awareness, attitudes, and perceptions of stroke and related conditions among health professionals, students, and population and communities at-risk, promoting more equitable and informed healthcare delivery.

I have contributed to knowledge in providing indigenous Stroke-Specific Quality of Life scales for stroke survivors in Hausa, Igbo and Yoruba, the three major Nigeria languages (papers ii, vi, vii and xi); in improving understanding of health-related quality of life among health professional (xv), individuals with spinal cord injuries (i), and elderly patients with diabetes mellitus in South-West Nigeria (xii); in highlighting gaps in stroke awareness within a university population (iii), and in identifying key risk factors and pathways leading to hypertension, a major modifiable risk factor for stroke among Nigerian school children (ix).

With the evolving and trending application of ICT in all aspects of healthcare practices. My colleagues and I have provided insights into the digital health readiness of health professions students in a Nigerian university, through the assessment of their knowledge, perception, and use of medical applications (x). Also, colleagues and I identified key factors influencing the uptake of telehealth innovations in physiotherapy practice by evaluating the level of acceptance and adoption of tele-physiotherapy among Nigerian physiotherapists (xx). Similarly, I co-developed and tested the feasibility of a video home-based tele-physiotherapy intervention for stroke patients in Nigeria (xiii), which showed evidence of feasibility and clinical applicability. Additionally, we designed and validated an audiovisual mobile health education package for secondary stroke prevention, all delivered in English and Yoruba languages, and showed its effectiveness in overcoming cultural, financial, and accessibility barriers to stroke prevention and rehabilitation exercises, while serving as a low-cost adjunct to clinic-based therapy (xviii).

Home exercise programme is important to maintain/improve clinical outcomes in patients with chronic conditions like stroke and serve as an adjunct to clinic-based treatment. I also contributed to knowledge by identifying key factors affecting adherence to home exercise programmes among stroke survivors, incorporating the perspectives of their caregivers to inform more supportive rehabilitation strategies in a mixed-method study (xxii). Similarly, was involved in the development and feasibility testing of a home-based exercise education video among caregivers of children with Cerebral Palsy (CP), which demonstrated evidence of good usability among caregivers of children with CP and effective improvement in neck control among children with CP (xxvi). Additionally, I led a study that highlighted infrastructural and social limitations that constitute barriers and facilitators to community ambulation among community-dwelling stroke survivors in a southwestern Nigerian state. We identified similar trends with high-income country contexts, with differences in perceived difficulties and experiences for infrastructural and social reasons, among others (xxi). Likewise, in a study that investigated the complex interaction among physical activity levels, fatigue severity, and health-related quality of life among community-dwelling stroke survivors, I and colleagues discovered a moderate correlation among these variables, suggestive of an interdependent relationship that is influenced by personal, cultural, and psychosocial factors (xxiv). I also led other researchers in the development of context-specific community reintegration protocols for stroke survivors in Nigeria, tailored to existing local resources and constraints. This work provides a framework for enhancing post-stroke participation in under-resourced settings.

Biochemical factors, such as levels of plasma biomarkers at different phases of stroke, affect outcomes. My colleagues and I investigated the prognostic role of plasma fibrinogen as a biochemical marker for the onset and severity of symptoms of depression, anxiety, and cognitive decline at 30 and 90 days after stroke and established fibrinogen's potential clinical utility as a monitoring biomarker for targeted interventions in these post-stroke neuropsychological disorders (xxiii). Likewise, in another study, I and colleagues established that starting exercises very early helped reduce inflammation and led to better recovery in physical functioning, mood and cognition of stroke survivors. This demonstrated measurable links between biological and functional responses to early physical activity and challenges the old idea of waiting before starting rehabilitation exercises (xxv).

Additionally, in other areas of my research, I have made contributions to identifying the major risk factors for falls among rural Nigerian community-dwelling older adults and recommended key strategies for fall prevention in a study that investigated social risk factors for falls in this population (v). I was also co-investigator in a study asthma knowledge, attitudes, and perceptions among secondary school students in Ile-Ife, Nigeria, and contributed to the understanding of respiratory health awareness in adolescent populations (viii). In addition, I co-authored a biomechanical and anthropometric study to demonstrate the relationship between body somatotype and handgrip strength in healthy Nigerian undergraduates and advanced the understanding of anthropometric influences on physical performance parameters (xiv). I also contributed to improving precision in pain management protocols for musculoskeletal and neurological conditions in a study that developed and validated reliable dosing methodologies for topical analgesics by establishing the reliability and concurrent validity of 5mm-nozzle clinical syringes for quantifying topical methyl salicylate application (xvi). I joined colleagues in the research of diabetes complications, to investigate associations between handgrip strength and functional disability in patients with Type 2 diabetes mellitus and identified modifiable physical parameters in this population with modifiable risk factors for stroke (xvii).

I have good experience in clinical reasoning, rehabilitation exercise using conventional means, and context-specific mobile health applications, as well as a good understanding of clinical research design, research methodology and data analysis. I have led several research projects as principal investigator in several surveys, experimental and observational studies. These include assessment of

clinical and psychosocial outcomes such as quality of life, risk awareness and knowledge, education, prevention strategies and home-based rehabilitation of chronic non-communicable diseases, and more recently, I was involved in an AI-based clinical decision support system for musculoskeletal and neurological disorders, both as a co-investigator and principal investigator. I believe my experience in hospital and population-based studies will strengthen my research capacity for effective prevention and rehabilitation of these diseases using conventional and technology-based interventions.

1/09/2024

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**Dr. M. O. Odetunde**

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Date