

Curriculum Vitae

AHMED HASSAN FAHAL

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Personal Details

Name: Ahmed Hassan Fahal
Place of Birth: Khartoum – Sudan
Marital Status: Married with four children
Nationality: Sudanese
Address: Department of Surgery
 Faculty of Medicine, University of Khartoum
 P.O. Box 102, Khartoum – Sudan

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Present Position: Professor of Surgery
 Department of Surgery, University of Khartoum
 Consultant Surgeon, Soba University Hospital

Additionally: President
 Scientific Research & Innovation Agency
 Ministry of Higher Education Scientific Research
 Republic of Sudan

Qualifications: MBBS, Khartoum, 1979, Distinction
 MS, Khartoum, 1984, Distinction
 MD, Khartoum, 1996, Distinction
 FRCSI, Dublin - Ireland
 FRCP, London - UK
 FRCS, London - UK
 FRCS(Gla), Glasgow - UK

Sudan Medical Council: Full Registration No. 2998
 Consultants Registry No. 330

Clinical & Academic Appointments & Professional Experience

Sept 1979 - Sept 1980	House Officer Soba University & Khartoum Teaching Hospital
Sept 1980 - Sept 1981	Senior House Officer General and Plastic Surgery Soba University Hospital
Sept 1981 - Sept 1984	Rotating Registrar in Training Khartoum Teaching Hospital Soba University Hospital Shaab Teaching Hospital
Sept 1984 - Sept 1986	Lecturer Department of Surgery University of Khartoum Senior Surgical Registrar Khartoum Teaching Hospital
Sept 1986 - Mar 1988	Rotating Registrar in Training The Middlesex & University College Hospitals The United Kingdom – London
July 1988 - Present	Consultant Surgeon Soba University, Khartoum Teaching Hospitals

Academic Appointments

1981 - 1984	Teaching Assistant - University of Khartoum
1984 - 1990	Assistant Professor - University of Khartoum
1990 - 1997	Associate Professor - University of Khartoum
1997 - Present	Professor of Surgery - University of Khartoum

Specialised Training

- Gastrointestinal Diagnostic & Therapeutic Endoscopy
- Doppler Vascular Assessment
- Percutaneous Ultrasound-Guided Biopsy & Fluid Aspiration

Field of Work

- Mainly General Surgery with a special interest in Gastrointestinal, Tropical and Endocrine Surgery

Special Interest

- Medical Education, WHO Consultant
- Quality and Excellence in Higher Education
- Clinical trials

Awards

- The University of Khartoum Award for Long-Standing Excellence in Scientific Research, Sudan, 2019.
- The Donald Mackay Medal, The Royal Society of Tropical Medicine and Hygiene, 2018
- The Knighthood of Palmes Académiques, The Republic of France, 2018
- The Knighthood of Merit, The Republic of Italy, 2018
- The Third World Academy of Science Fellowship, 2018
- The University of Khartoum Award for Excellence in Administrative Achievements, Sudan, 2016.
- Sudan Doctors Union –Ireland Award, Dublin, Ireland, 2013.
- Sudanese American Medical Association Special Award, Washington, USA, 2013.
- The University of Khartoum Award for Excellence in Scientific Research, Sudan, 2010.
- Premio Cabeza Maya - International Research Group on Pathogenic Actinomycetes (GIIAP), Mexico, 2007.

- The State of the Sudan Golden Medal for Excellence & the Promotion of Scientific Innovation in Medicine - Sudan, 2000.
- The Ziber Award for Excellence in Medicine - Sudan, 2000.

Professional Courses & Workshops Attended

- Postgraduate Course in Traumatology, Lund University, 1985, Lund, Sweden.
- Computer Sciences Course, Computer Man College, 1985, Khartoum, Sudan.
- Anastomosis Workshop, The Royal College of Surgeons of England, 1987, London, England.
- Intensive Course in General Surgery, The Royal College of Surgeons of England, 1987, London, England.
- Liver Diseases Update Africa Course, The African Association for the Study of Liver Diseases, 1992, Cape Town, South Africa.
- Laparoscopic Surgery Course, The World Congress of Gastroenterology, 1994, Los Angeles, USA.
- Visiting Physician, University of Southern California, 1994, Los Angeles, USA.
- Laparoscopic Surgery Course, Leeds University, 1997, Leeds, UK.
- Disaster Medicine Workshop, Pan African Association of Surgeons, 1999, Nairobi, Kenya.
- Advanced Therapeutic Endoscopy, Theor Bihar Research Institute, 2000, Cairo, Egypt.
- Post-graduate Endoscopy Course, World Congress of Gastroenterology, 2002, Bangkok, Thailand.
- Advanced Trauma Live Support (ATLS) Course, 2002, Doha, Qatar.
- Buruli Ulcer Advocacy Workshop, WHO, Nairobi, Kenya, 2004.
- Post-Conflict Health Service Reform in Sudan, WHO, Khartoum, Sudan, 2004.

- Global Academy of Tropical Surgery Constitutional Meeting, EMRO-WHO, Cairo, Egypt, 2004.
- Total Quality Management Workshop, Abu Dhabi, UAE, 2006.
- Self-assessment and Quality in Higher Education, Arab Universities Union, Amman Jordan, 2008.

Courses & Workshops Attended In Medical Education

- Objective Structured Clinical Examination (OSCE) Course, Educational Development Centre, University of Khartoum in collaboration with Centre for Medical Educational, University of Dundee, 1988, Khartoum, Sudan.
- Undergraduate Surgical Teaching & Evaluation Workshop, Educational Development Centre, University of Khartoum, 1989, Khartoum, Sudan.
- Educational Goals, Priorities & Plan of Action. Educational Development Centre, University of Khartoum, 1996, Khartoum, Sudan.
- Students Assessment & Evaluation Course, Ahfad University, 1996, Omdurman, Sudan.
- Recent Changes in Medical Education, Educational Development Centre, University of Khartoum, 1996, Khartoum, Sudan.
- Problem-Based Learning Workshop, Educational Development Centre, University of Gezira, in collaboration with Centre for Medical Educational, University of Dundee, 1996, Madani, Sudan.
- Problem Based Learning, Summer Course, University of Maastricht, 1999, Maastricht, The Netherlands.
- Expanding Horizons in Problem Based Learning, Summer Course, University of Maastricht, 1999, Maastricht, The Netherlands.
- Teaching & Learning Workshop Course, Association for Medical Education in Europe, Annual Meeting, 2002, Lisbon, Portugal.
- Celebration of the OSCE Workshop, Association for Medical Education in Europe, Annual Meeting, 2002, Lisbon, Portugal.

- Certificate in Health Professions Education, Sultan Qaboos University, 2002, Muscat, Sultanate of Oman.
- The Third GCC Conference of Medical Faculties of Medicine on Medical Education, 2002, Muscat, Sultanate of Oman.
- Health Research Ethics in Africa, AMANET, 2003, Khartoum, Sudan.
- Workshop on Specific Operational Procedures of Ethics Committee, AMANET, 2003, Entebbe, Uganda.
- Workshop on Study Guides, Association for Medical Education in Europe, Annual Meeting, 2003, Bern, Switzerland.
- Workshop on Electronic Learning, Association for Medical Education in Europe, Annual Meeting, 2003, Bern, Switzerland.
- Workshop on E. Learning, Association for Medical Education in Europe, Annual Meeting, 2004, Edinburgh, UK.
- Workshop on Evidence-Based Medicine, Association for Medical Education in Europe, Annual Meeting, 2004, Edinburgh, UK.
- Workshop on Staff Development, Association for the Study of Medical Education, 2004, Liverpool, UK.
- Workshop on Evidence-Based Medicine, Educational Development Centre, Khartoum, 2005, Khartoum, Sudan.
- Workshop on Effective Teaching, Association for Medical Education in Europe, Annual Meeting, 2005, Amsterdam, The Netherlands.
- Workshop on SMILE, Association for Medical Education in Europe, Annual Meeting,

2006, Genoa, Italy.

- Workshop on Medical Professionalism, Association for Medical Education in Europe, Annual Meeting, 2007, Trondheim, Norway.
- Workshop on Telemedicine and E-Health, Association for Medical Education in Europe, Annual Meeting, 2007, Trondheim, Norway.
- Workshop on Medical Professionalism: an exploration of international similarities and differences in teaching and learning about professionalism, Association for Medical Education in Europe, Annual Meeting, 2007, Trondheim, Norway.
- Workshop on Using Humour to tap Multiple Intelligences in Medical Education, Association for Medical Education in Europe, Annual Meeting, 2007, Trondheim, Norway.
- Workshop on Analysis of Small Group Learning, Association for Medical Education in Europe, Annual Meeting, 2007, Trondheim, Norway.
- Essential skills in Medical Education, Association for Medical Education in Europe, 2007, Khartoum, Sudan.
- Technology Enhanced Medical Education, Association for Medical Education in Europe, Annual Meeting, 2008, Prague.
- Scholarly Evaluation Workshop, Association for Medical Education in Europe, Annual Meeting, 2008, Prague.
- Clinical Teaching Workshop, Association for Medical Education in Europe, Annual Meeting, 2009, Malaga, Spain.
- Student assessment Workshop, Association for Medical Education in Europe, Annual Meeting, 2009, Malaga, Spain.

- E. Learning Workshop, Association for Medical Education in Europe, Annual Meeting, 2010, Glasgow, United Kingdom.
- Usability Testing of E. Learning Workshop, Association for Medical Education in Europe, Annual Meeting, 2011, Vienna, Austria.
- Structured Approach to Effective Virtual Patient Authoring Workshop, Association for Medical Education in Europe, Annual Meeting, 2011, Vienna, Austria.
- Bruised, bloody and burned: Basic Moulage techniques Workshop, Association for Medical Education in Europe, Annual Meeting, 2011, Vienna, Austria.
- Measurement of clinical skills: Advanced topics Workshop, Association for Medical Education in Europe, Annual Meeting, 2011, Vienna, Austria.
- Measuring OSCE Quality: A practical guide Workshop, Association for Medical Education in Europe, Annual Meeting, 2011, Vienna, Austria.
- Building Capacity for Accreditation Development & Sustainability workshop, Sudan Medical Council, in collaboration with WHO and WFME, 2011, Khartoum, Sudan.
- Changing Medical Education. A framework for Development workshop. Sudan Medical Council in collaboration with WHO and Federal Ministry of Health, 2011, Khartoum, Sudan.
- The Association for Medical Education in Europe, Annual Conference from 2002 – present.
- The Saudi Medical Educational Association, International conferences, 2007, 2009.
- The International Medical Education Conferences in the Sudan, 2005, 2007, 2009.
- The Regional Consultation on Accreditation of Health Professions Education for EMR. Tunis, Tunisia, 2011.

- Giving Feedback, The Third Saudi International Conference in Medical Education, The Saudi Medical Educational Association, Riyadh, KSA, 2012.

Scholarships

- University of Lund, Sweden, 1985
- British Council Scholarship, England, 1986 - 1988
- The African Association for the Study of Liver Diseases, Cape Town, South Africa, 1992
- The World Congress of Gastroenterology, (Young Clinicians), Los Angeles, USA, 1994
- British Council Scholarship, Leeds, England, 1997
- University of Maastricht, Maastricht, The Netherlands, 1999

***Professional, Academic
& Administrative,
Responsibilities & Activities***

Clinical Service Activities

- Rotating Surgical Registrar, Khartoum, Sudan, 1981-1984.
- Senior Registrar, Academic Department of Surgery, Khartoum Teaching Hospital, Consultant cover for 40 surgical beds, 1984-1986.
- Registrar, Academic Department of Surgery, University College and The Middlesex Hospitals, London, UK, 1986-1988.
- Weekly General Surgical Out-Patient Clinic, Khartoum Teaching Hospital, 1984-1986.
- Weekly Hand Sepsis Clinic at Khartoum Teaching Hospital, 1984-1986.
- Weekly Scrotal Conditions Clinic at Khartoum Teaching Hospital, 1984-1986.
- Consultant Surgeon, Academic Department of Surgery, Khartoum Teaching Hospital, Consultant cover for 40 surgical beds, 1988-1992.
- Weekly General Surgical Out-Patient Clinic, Khartoum Teaching Hospital, 1988- 1992.
- Twice weekly casualty covers to Khartoum Teaching Hospital, Academic Surgical Department, 1984-1986, 1988-1992.
- Consultant Surgeon, Soba University Hospital, Consultant cover for 30 surgical beds, 1992-Present.
- Weekly casualty covers to Ibrahim Malik Teaching Hospital, Surgical Department, 1992-1995.
- Weekly General Surgical Out-Patient Clinic, Soba University Hospital, 1992- Present.
- Weekly Mycetoma Clinic, Khartoum Teaching Hospital, 1988-1991.
- Weekly Mycetoma Clinic, Soba University Hospital, 1991- Present.
- Weekly Breast Clinic, Soba University Hospital, 1992-Present.
- Weekly Thyroid Clinic, Soba University Hospital, 1992-Present.
- Weekly Gastrointestinal Endoscopic Session, Soba University Hospital, 1988-Present.

- Consultant Surgeon to the University Health Service, 1988-1996.
- Consultant Surgeon to the Central Police Hospital, 1990-1998.

Administrative Responsibilities

- Member, the WHO NTD Diagnostic Technical Advisory Group (DTAG) Skin NTDs subgroup, Geneva.
- President, The Scientific Research Agency, Ministry of Higher Education and Scientific Research, Khartoum, Sudan, 2014- Present.
- Member, The National Council for Higher Education and Scientific Research, Republic of Sudan, Khartoum, Sudan, 2014- Present.
- Director of the University of Khartoum Libraries, Khartoum, Sudan, 2011– 2017.
- African Academy of Science, Membership Advisory Committee (MAC), Medical & Health Sciences, 2015- present.
- The Academic Secretary, University of Khartoum, Khartoum, Sudan, 2009 – 2011.
- Founding Director, Self-Evaluation & Quality Enhancement Administration, University of Khartoum, Khartoum, 2006- 2009.
- Director, The Educational Development Centre, Faculty of Medicine, University of Khartoum, Khartoum, 2000- 2006.
- Founding Director, The National Mycetoma Control Programme, The Ministry of Health, Sudan, 2011 - Present.
- Founding Director, The Mycetoma Research Centre, Sudan, 1991 - Present.
- Member, University of Khartoum Supreme Council, 2009- 2017.

- Convener, University of Khartoum Senate, Khartoum, 2009 - 2011.
- Convener, University of Khartoum Staff Promotion Committee, Khartoum, 2009 - 2011.
- Convener, University of Khartoum Examination and Prizes Committee, Khartoum, 2009 - 2011.
- Convener, University of Khartoum Student Admission & Registration Supreme Committee, Khartoum, 2009 - 2011.
- Convener, University of Khartoum Library Executive Committee, Khartoum, 2011 – 2017.
- Member, Executive Committee, Graduate College, University of Khartoum Committee, Khartoum, 2011 - 2017.
- Member, University of Khartoum Staff Appointment Committee, University of Khartoum, Khartoum, 2009 - 2011.
- Member, The National Committee of Evidence-Based Medicine, Khartoum, Sudan, 2009-Present.
- Member, The National Committee of Scientific Research Ethics, Khartoum, Sudan, 2009-Present.
- Coordinator, Human Development program, WHO, Sudan, 2000-2006.
- Member, The Supreme Council, Sudan National Medical Specialisation Board, Sudan, 2009- 2014.
- Member, The Medical & Health Scientific Committee, Ministry of Higher Education and Scientific, Sudan, 2008-2010.

- Member, The Senate of the University of Khartoum, Khartoum, 1997 - Present.
- Executive Member, The Sudan Medical Council, 2001- 2005.
- Member, The Faculty Board, Faculty of Medicine, University of Khartoum, 1997 - Present.
- Chairman, The Mycetoma Research Group, Institute of Endemic Diseases, University of Khartoum, 1992 - Present.
- Member, Executive Board of the Educational Development Centre, University of Khartoum, 1995 - Present.
- Head, The Research Committee, Soba University Hospital, Khartoum, 2007- 2013.
- Secretary, Research Board, Faculty of Medicine, University of Khartoum, Khartoum, Sudan, 1996 - 2001.
- Head, the Department of Medical Photography and Medical Illustration, Faculty of Medicine, University of Khartoum, 1988 - 2006.
- Head, the Gastro-intestinal Endoscopy Unit, Soba University Hospital, Khartoum, 1992 - 2000.
- Head, the Theatre Committee, Soba University Hospital, Khartoum, 2001 - 2003.
- Secretary, Research Committee, Department of Surgery, University of Khartoum, Khartoum, Sudan, 1992 – 1993.
- Head, the University Department of Surgery, Khartoum Teaching Hospital, Khartoum, Sudan, 1988 - 1992.
- Secretary, Departmental Board of Surgery, University of Khartoum, Khartoum, Sudan,

1984-1986, 1988-1992.

- Secretary, the Steering Committee, the Institute of Endemic Diseases, University of Khartoum, Khartoum, Sudan, 1991 - 1993.

Academic Responsibilities In Medical Education

- Ambassador to North Africa, Association for Medical Education in Europe, 2012-present.
- WHO Consultant in Medical Education, (2003-present).
- Visiting WHO Consultant to Sanna University, Yemen, (2003, 2007, 2011).
- Trainer of Trainers in Medical and Health Sciences, Educational Development Centre, University of Khartoum, Khartoum, (1997-Present).
- Member, Curriculum Committee, Faculty of Medicine, University of Khartoum, (2000-Present).
- Tutor in Surgery for Fifth Year Medical Students, Faculty of Medicine, University of Khartoum (1988 - 1995).
- Tutor in Surgery for Sixth Year Medical Students, Faculty of Medicine, University of Khartoum (1995 - 2000).
- Organiser, Surgical Club, Department of Surgery, University of Khartoum, Khartoum, Sudan (1984 - 1986, 1988 - 1991).
- Organiser, Course in General Surgery for Dental Students, Faculty of Dentistry, University of Khartoum, Khartoum, Sudan (1984 - 1986).

- Organiser, Surgical Forum for Surgical Registrars, Department of Surgery, University of Khartoum, Khartoum, Sudan (1984 - 1985).
- Organiser of the final M.D. (Surgery) Examinations, University of Khartoum, Khartoum, Sudan (1988 - 1992).
- Organiser of part (1) M.D. (Surgery) Examinations, University of Khartoum, Khartoum, Sudan (1992 - 1995).
- Organiser of the final MBBS Examinations, University of Khartoum, Khartoum, Sudan (1984 -1986, 1988 - 1993).
- Regular case presentation sessions at the Surgical Club & Staff Rounds of the Department of Surgery, University of Khartoum.
- Part-Time Lecturer, High Nursing School, University of Khartoum, (1981-1986)
- Part-Time Lecturer and Course Organiser of General Surgery for Dental Students, Faculty of Dentistry, University of Khartoum, (1986-1988).
- Part-Time Lecturer, General Surgery, Faculty of Medicine, Ahfad & Upper Nile Universities, Khartoum, (1990-2009)

Scientific Journals' Editorial Boards Membership

- Member, Editorial Board, Hamdan Medical Journal, 2019-Present
- Member, Editorial Board, MedEdWorld International, 2009-Present

- Member, Editorial Board, International Journal of Sudan Research
- Secretary, the Editorial Board, Khartoum Medical Journal, 2008 - Present.
- Assistant Editor, the Editorial Board, Sudan Medical Journal, Sudan, 1990 - 2000.
- Member, the Editorial Board, Gezeria Medical Journal, Sudan, 2005-Present.
- Editor, Mycetoma in Sudan, Sudan Medical Journal, Supplement, 1994.
- Co-Editor, Sudanese Society of Tropical Medicine and Hygiene Newsletter, 2000-2002.
- Co-Editor, Sudan Association of Surgeons Newsletter, 2004-2006.
- Co-Editor, Educational Development Centre - Khartoum Newsletter, 1999.
- Member, the Editorial Board, Research and Development in Medical Educational Journal, Tabriz, Iran, 2011-Present.
- Member, the Editorial Board, Journal of Case Reports in Infectious Diseases, USA, 2011-Present.
- Member, the Editorial Board, The Arab Medical Schools Journal, 2009-Present.
- Member, the Editorial Board, the National University Medical Journal, (2006-Present).

New Establishments

- The Mycetoma Research and Development Arcade, The Mycetoma Research Centre, University of Khartoum, 2020
- The Microbiology Laboratory, The Mycetoma Research Centre, University of Khartoum, Khartoum, Sudan, 2020.
- The Mycology Laboratory, The Mycetoma Research Centre, University of Khartoum, Khartoum, Sudan, 2016.
- Clinical Trial Unit, The Mycetoma Research Centre, University of Khartoum, Khartoum,

Sudan, 2016.

- The Turkish Cultural Centre, in collaboration with the Turkish Embassy in Sudan, The Main Library, University of Khartoum Library, Khartoum, Sudan, 2016.
- The Venezuelan Cultural Centre, in collaboration with the Venezuelan Embassy in Sudan, The Main Library, University of Khartoum Library, Khartoum, Sudan, 2015.
- The Russian Cultural Centre, in collaboration with the Russian Embassy in Sudan, The Main Library, University of Khartoum Library, Khartoum, Sudan, 2014.
- Prof. EL Hassan Molecular Laboratory, the Mycetoma Research Centre, University of Khartoum, Khartoum, Sudan, 2014.
- The Sudapaedia Electronic Library, in collaboration with Suna Press Agency, the Main Library, University of Khartoum Library, Khartoum, Sudan, 2014.
- The Motozi Japanese Cultural Centre, in collaboration with the Rotheno Foundation, The Main Library, University of Khartoum Library, Khartoum, Sudan, 2014.
- The Martin Luther King Cultural Centre, in collaboration with the American Embassy, The Main Library, University of Khartoum Library, Khartoum, Sudan, 2013.
- The Leonardo Da Vinci Library and Reading Room, The Main Library, in collaboration with the Italian Embassy, University of Khartoum Library, Khartoum, Sudan, 2013.
- The Sudan Cultural Museum, University of Khartoum Library, Khartoum, Sudan, 2013.
- The University Museum, University of Khartoum Library, Khartoum, Sudan, 2012.
- TheUniversity Shop, University of Khartoum Library, Khartoum, Sudan, 2012.
- The University Electronic Library, the University of Khartoum Library, Khartoum, Sudan, 2012.
- The Department of Education, Training and Support, The University of Khartoum Library, Khartoum, Sudan, 2011.
- The Visiting Professor Unit at the Academic Affairs Secretariat, University of Khartoum, 2010.
- The University Website Management Unit at the Academic Affairs Secretariat, University of Khartoum, 2010.

- The Mycetoma Control Programme, in collaboration with the Federal Ministry of Health, Sudan, 2010.
- The Faculty Museum, Faculty of Medicine, University of Khartoum, 2009.
- The Educational Development Centre, Ahfad University, Khartoum, Sudan, 2008.
- The Mycetoma Research Centre, new premises, University of Khartoum, Khartoum, Sudan, 2007.
- The Self Evaluation & Quality Enhancement Administration, University of Khartoum, Khartoum, Sudan, 2006.
- The Medical Photography & Illustration Unit, Soba University Hospital, Khartoum, in collaboration with Medicimage Foundation, UK, 2006.
- The Integrated Teaching Centre, Faculty of Medicine, University of Khartoum, 2006.
- Professor AL Tagani EL Mahi Centre for Clinical Skills Training, Educational Development Centre, Faculty of Medicine, University of Khartoum, 2005.
- The Continuing Professional Centre at Soba University Hospital, Khartoum, Sudan, 2004.
- The Educational Development Centre new premises, University of Khartoum, Khartoum, Sudan, 2003.
- The Mycetoma Research Centre, University of Khartoum, Khartoum, Sudan, 1991.
- The Surgical Research Laboratory, the Academic Surgical Department, Khartoum Teaching Hospital, 1989.
- The Gastrointestinal Tract Endoscopy Unit, the Academic Surgical Department, Khartoum Teaching Hospital, 1989.
- The establishment of Professor Ibrahim Mastufa's Postgraduate Lecture Theatre. University of Khartoum, 1989.

Other Activities

- Rehabilitation of the Sudan Library at the University Main Library, University of Khartoum, 2017.
- Rehabilitation of EL Shangati Library at the University Main Library, University of Khartoum, 2014.
- Rehabilitation of EL Tagani EL Mahi Library at the University Main Library, University of Khartoum, 2014.
- Rehabilitation and the establishment of new premises at the University Main Library, University of Khartoum, 2011.
- Contribution to the rehabilitation of the Main Examination Hall, University of Khartoum. Khartoum, 2011.
- Digitalisation of all the Academic Affairs Secretariat activities, University of Khartoum, 2010.
- Contribution to the establishment of Soba Educational, Training & Examination Centre, University of Khartoum, 2010.
- Complete rehabilitation and the establishment of new premises of the Academic Affairs Secretariat premises, University of Khartoum, 2009.
- Complete rehabilitation of the Department of Medical Photography & Illustration, Faculty of Medicine, University of Khartoum, 2003.
- Complete rehabilitation of the Academic Surgical Department, Khartoum Teaching Hospital, 1999.
- Contribution to the establishment of the Institute of Endemic Diseases, University of Khartoum, 2000.
- Contribution to the rehabilitation of the Department of Surgery, Faculty of Medicine, University of Khartoum, 1999.
- Contribution to the establishment of the Surgical Pathology Museum at the Department of Surgery University of Khartoum, 1998.

Specialised Clinics Establishments

- The establishment of the Mycetoma Clinic at Soba University Hospital, Khartoum (serving more than 9500 mycetoma patients).
- The establishment of the Thyroid Clinic at Soba University Hospital, Khartoum (serving more than 800 patients).
- The establishment of the Breast Clinic at Soba University Hospital Khartoum. (Serving more than 900 patients).

***Membership of
Learned Societies***

Membership to Learned Societies

Local

- Secretary-General, Sudan Association of Surgeons, 1994 - 2002.
- Founding Secretary General, Sudanese Society of Tropical Medicine, 1992 - 2002.
- Founding Secretary General, Sudanese Association of Medical Education, 2004-2010.
- Member, Executive Council of the Sudan Medical Association, 1994 - 2002.
- Member, Executive Council the Sudan National Academy of Science, 2007-Present.
- Secretary-General, Sudanese Society of Gastroenterology, 1988-1994, 1999-2001.
- Member, Executive Council of Sudan Association of Surgeons, 2002-2006.
- Member, Sudanese Society of Physiology, 1994 - Present.
- Member, Sudanese Environmental Conservation Society, 1990 - Present.
- Member, Sudanese Society for Folklore, 2008 - Present.

International

- Chairperson, the Pan African Mycology Working Group, International Society of Human and Animal Mycology, 2019
- Fellow, The Third World Academy of Science, 2018
- Fellow of the African Academy of Sciences, 2015
- Fellow of the Royal College of Surgeon, Glasgow, UK, 2015.
- Fellow of the Royal College of Surgeons, England, 2015.
- Fellow of the Royal College of Physicians, London. 2011

- Fellow of the Royal College of Surgeons, Dublin.
- Member, Executive Council of the Pan Arab Association of Surgeons, 1994 - 2005.
- Member, Pan African Association of Surgeons, 1996 - Present.
- Member, Arab-African Society of Gastroenterology and Endoscopy, 1989 - Present.
- Member, Pan Arab Association of Surgeons, 1989 - Present.
- Member, The African Association for the Study of Liver Diseases, 1992 - Present.
- Member, The Arab Society of Gastroenterology, 1993 - Present.
- Founding member, The African and Middle East Society of Gastroenterology, 1988 - 2000.
- Founding member, The Pan African Association of Medical Mycology, 2005- Present.
- Member, The Arab Association for Liver Study, 2010 – Present.
- Local Secretary, The Royal Society of Tropical Medicine and Hygiene, 1997 - Present.
- Member, The International Advisory Committee, the Transactions of the Royal Society of Tropical Medicine and Hygiene, 2003-2007.
- Founding member, Global Academy of Tropical Surgery, 2004-Present.
- Member, Association for Medical Education in Europe, 2002-present.
- Fellow, The Royal Society of Tropical Medicine and Hygiene, 1992 - Present.
- Fellow, The American Association of Gastroenterology, 1992 - Present.
- Fellow, The International College of Surgeons, 1996 - Present.
- National delegate, World Association of Hepato-Pancreato-Biliary Surgery, 1986 - 2000.
- Member, The Vascular Surgical Society of Great Britain and Ireland, 1987 - Present.
- Member, The New York Academy of Sciences, 1992 - Present.

***Contributions to
Scientific Conferences,
Meetings & Symposia Organisation***

- *Local*
- *International*

Organisation of Seminars, Meetings & Conferences

- Chairman of the Organising Committee of the Sixth International Conference on Mycetoma, Khartoum, Sudan, 2019
- Chairman of the First International Workshop on Mycetoma, Khartoum, Sudan, 2019
- Chairman of the Scientific Committee, the Six Annual Post-Graduate Conference, University of Khartoum, Khartoum, Sudan, 2015
- Chairman of the Organising Committee of the Fifth International Conference on Mycetoma, Khartoum, Sudan, 2011
- Chairman of the Organising Committee of the Mycetoma International Week, Khartoum, Sudan, 2009
- Chairman of the Organising Committee of the Third International Conference on Medical Education in Sudan, Khartoum, Sudan, 2009
- Chairman of the Organising Committee of the Second International Conference on Medical Education in Sudan, Khartoum, Sudan, 2007
- Chairman of the Organising Committee of the First International Conference on Medical Education in Sudan, Khartoum, Sudan, 2005
- Chairman of the Organising Committee of the Third Mycetoma International Conference, Khartoum, Sudan, 2002
- Chairman of the Organising Committee of the 4th Pan Arab Congress of Gastroenterology, Khartoum, Sudan, 2001
- The Mycetoma Seminar. The Sudan Association of Surgeons, Wad Madani, Gezira State, 1999
- Chairman of the Organising Committee of the 29th, 30th, 31st Annual Conferences, The Sudan Association of Surgeons, Khartoum, 1995, 1997, 2001

- Breast Cancer Seminar. The Sudan Association of Surgeons, Khartoum - Sudan, 2000
- Surgical Bilharziasis Seminar. The Sudan Association of Surgeons, Khartoum, 1995
- The Breast Carcinoma Seminar. The Sudan Association of Surgeons, Khartoum, 1994
- The Tuberculosis Seminar. The Sudan Association of Surgeons, Annual Conference, Khartoum, 1991
- Twenty Academic Meetings. The Sudanese Society of Gastroenterology, 1988- 1992
- The Summer Seminar on Primary Hepatocellular Carcinoma. The Sudanese Society of Gastroenterology, Khartoum, 1988
- Six Academic Meetings. The Sudanese Society of Tropical Medicine and Hygiene, 1993 - 1996
- Five Academic Meetings. The Sudan Association of Surgeons, 1994 - 1995
- The Malaria and Leishmaniasis Conference. The Sudanese Society of Tropical Medicine and Hygiene, Khartoum, 1994
- Member, the organising committee, The Second Scientific Conference. Sudan Medical Association, Khartoum, 1995
- Scientific Research in Sudan, the problems and solutions symposium. Sudan Medical Association, Khartoum, 1995
- The Tuberculosis in Sudan, the present situation seminar. The Sudanese Society of Tropical Medicine and Hygiene, Khartoum, 1995
- The Mycetoma Seminar. The Sudan Association of Surgeons, Annual Conference, Khartoum, 1990

Organisation of Public Lecture

- Public Lectures on Surgical & Health Education and mycetoma in many villages in the Gazeria area, The White Nile and Sennar States, Sudan.
- Health Education sessions, Sudan, Khartoum State, Blue Nile, EL Gazeria, Sennar, Omdurman and EL Shorok televisions, Sudan, Khartoum State and University of Khartoum Broadcasts and many National Newspapers.

Organisation of Surgical Training Courses

- Post-Graduate Course on Traumatology, Khartoum, 1994.
- Post-Graduate Course on Surgical Sepsis, Khartoum, 1996.

Organisation of Courses in Medical Education

Organised more than 80 Training Workshops and Courses in various Medical Education issues at:

- Educational Development Centre, Faculty of Medicine, University of Khartoum
- Ahfad Educational Development Centre, Ahfad University for Women
- Educational Development Centre, Faculty of Medicine, University of Shandi
- Educational Development Centre, Faculty of Medicine and Health Sciences, University of Sana'a, Yemen.
- The Second Saudi International Conference in Medical Education, The Saudi Medical Educational Association, Jazan, KSA, 2010.
- The Third Saudi International Conference in Medical Education, The Saudi Medical Educational Association, Riyadh, KSA, 2012.

***Communication To
Learned Societies***

- ***Local***
- ***International***

Local Conferences & Meetings

1. Immune responses of Sudanese patients with gastro-intestinal tract cancer. Sudan Association of Surgeons, Annual Meeting, Khartoum, 1984.
2. Intestinal pseudo-obstruction. Sudanese Society of Gastroenterology, Khartoum, 1985.
3. The immunology of gastro-intestinal tract cancer. Sudanese Society of Gastroenterology, Khartoum, 1985.
4. The femero-femoral bypass. The Sudan Association of Surgeons, Annual Conference, Khartoum, 1989.
5. Recent advances in Gastroenterology. Sudanese Society of Gastroenterology, Khartoum, 1989.
6. The Clinical Presentation of Mycetoma. The Mycetoma Seminar. The Sudan Association of Surgeons, Annual Conference, Khartoum, 1990.
7. Mycetoma in Sudan. Soba University Hospital, Annual Conference, Khartoum, 1991.
8. Acute Scrotum. The Sudanese, Japanese Nephro, Urological Conference, Khartoum, 1991.
9. *Actinomadura pelletierii*: The ultrastructure and the pathogenesis. The Sudan Association of Surgeons, Annual Conference, Khartoum, 1991.
10. Factors governing the outcome of medical treatment in mycetoma. The Sudan Association of Physicians, Annual Conference, Khartoum, Sudan, 1994.
11. Mycetoma: New diagnostic approach. The Sudan Association of Surgeons, Annual Conference, Khartoum, Sudan, 1994.
12. Infection risk factors in patients with malignant diseases. The Sudan Association of Surgeons, Annual Conference, Khartoum, Sudan, 1994.
13. Breast carcinoma in Sudan. The Breast Carcinoma Seminar. The Sudan Association of Surgeons, Khartoum, Sudan, 1994.
14. The spectrum of benign breast disease in Sudan. The Second Scientific Conferences, Sudan Medical Association, Khartoum, Sudan, 1995.
15. Venous Varicosity in mycetoma. The 5th Pan Arab League of Dermatologists, Khartoum, Sudan, 1996.
16. Recent advances in mycetoma. The Annual Conference of Pathologists, Khartoum, Sudan, 1996.

17. Risk factors for surgical site infection. The Sudan Association of Surgeons, Annual Conference, Khartoum, 1998.
18. The efficacy of Itraconazole in the treatment of patients with eumycetoma. The Sudan Association of Surgeons, Annual Conference, Khartoum, 2001.
19. The pattern of Benign Breast Disorders in Khartoum. The Sudan Association of Surgeons, Annual Conference, Khartoum, 2001.
20. Clinical Experience with mycetoma in Sudan, The Third International Conference of Mycetoma, Khartoum, Sudan, 2002.
21. The efficacy of medical treatment of eumycetoma due to *Madurella mycetomatis*. The Third International Conference of Mycetoma, Khartoum, Sudan, 2002.
22. Abnormal presentation of mycetoma. The Third International Conference of Mycetoma, Khartoum, Sudan, 2002.
23. Susceptibility of *M. mycetomatis* to Medical treatment, Sudan Association of Physicians, Annual meeting, Khartoum, Sudan, 2004.
24. Breast Carcinoma in Sudan, Pathological prognostic indices, Sudan Association of Surgeons, Annual meeting, Khartoum, Sudan, 2004.
25. Educational Development Centre, University of Khartoum, 30 years experience, The First International Conference on Medical Education in Sudan, Khartoum, Sudan, 2005.
26. Benign Breast Neoplasm, Sudan Association of Surgeons, Annual meeting, Khartoum, Sudan, 2005.
27. Tomorrow's Surgeon, Sudan Association of Surgeons, Annual meeting, Khartoum, Sudan, 2006.
28. The treatment of mycetoma, Sudan Association of Surgeons, Annual meeting, Khartoum, Sudan, 2006.
29. The informed consent, National training workshop on Research Ethics, WHO, Khartoum, Sudan, 2007.
30. The informed consent, Training Course for Ethics Committee Members, Good Clinical Practice Alliance in Europe, Khartoum, Sudan, 2007.
31. E-Learning, The Second International Conference on Medical Education in Sudan, Khartoum, Sudan, 2007.
32. E-Learning, The Sudanese Society of Gastroenterology academic meeting, Khartoum, Sudan, 2007.
33. Mycetoma in Children, The Pan Arab Conference of Paediatrics, Annual meeting,

- Khartoum, Sudan, 2007.
34. Post-graduate Surgical Training Assessment, Sudan Association of Surgeons, Annual meeting, Khartoum, Sudan, 2008.
 35. Advanced Presentations Skills, ENT Surgical Association, Khartoum, Sudan, 2008.
 36. E. Learning for undergraduate students, Gadaraf University, Sudan, 2008.
 37. E. Learning principles, Gazeria University, Sudan, 2008.
 38. The Presentations Skills, Gazeria University, Sudan, 2008.
 39. Quality in Medical Education, The Sudanese Association of Dermatology, Annual Conference, Khartoum, 2009.
 40. Quality in Medical Education, The Third International Conference on Medical Education in the Sudan, Khartoum, 2009.
 41. Quality in Higher Education, The Faculty of Agriculture, University of Khartoum Annual regional Scientific Seminar, Khartoum, 2009.
 42. Quality Assurance in Medical Education, The Third International Conference on Medical Education in the Sudan, Khartoum, 2009.
 43. The Quality of Gastroenterology Higher Training, the Sudanese Gastroenterology Society International Conference, Khartoum, 2010.
 44. Mycetoma from the Bench to the Field: the impacts of the Mycetoma Research Centre, University of Khartoum Graduate Studies and Scientific Research International Conference, Khartoum, 2010.
 45. The Mycetoma Research Centre, East African Leshminia Group and Drugs for Neglected Diseases Initiative, Khartoum, Sudan, 2010.
 46. The Mycetoma in Sudan, the Annual Mycology Meeting, The National Veterinary Research Centre, Khartoum, Sudan, 2011
 47. The National Mycetoma Control Programme, The Fifth International Conference on Mycetoma, Khartoum, Sudan, 2011.
 48. The epidemiology and clinical presentation of mycetoma in Sudan, The Fifth International Conference on Mycetoma, Khartoum, Sudan, 2011.
 49. Surgical treatment of mycetoma, The Fifth International Conference on Mycetoma, Khartoum, Sudan, 2011.
 50. Scientific research is it important, Red Sea University, Port-Sudan, Sudan, 2011.
 51. Continuing Professional Development. Sudan Medical Council, Professionalism

- Annual Meeting, Khartoum, Sudan, 2011.
52. Why quality in medical education. Building Capacity for Accreditation Development & Sustainability workshop, Sudan Medical Council in collaboration with WHO and WFME, 2011, Khartoum, Sudan., 2011
 53. Confusing benign breast conditions. The first breast cancer conference, Khartoum, Sudan, 2011.
 54. Mycetoma; a medical and socio-economic dilemma, The Sudanese Association of Orthopaedics Surgeons, The Second International Conference, Khartoum, Sudan, 2012
 55. Simulation in Medical Education, The Sudanese Association of Physicians, The Annual Conference, Khartoum, Sudan, 2012
 56. E. Learning, The Regional workshop on Medical Education, The Scientific Society of Arab Medical Schools, Khartoum, Sudan, 2012
 57. Simulation in Medical Education, The Regional workshop on Medical Education, The Scientific Society of Arab Medical Schools, Khartoum, Sudan, 2012.
 58. Mycetoma Update, The Sudan Association of Dermatologists, Scientific Meeting, Khartoum, Sudan, 2012.
 59. Quality in medical education. Building Capacity for Accreditation Development & Sustainability workshop, Faculty of Medicine, University of Khartoum, Sudan, 2012
 60. Mycetoma from the Thorn to the Bench to the knife, the 29th Congress of the International Academy of Pathology, and the 12th conference of the Association of Pathologists, Khartoum, Sudan, 2012.
 61. Confusing benign breast conditions, Breast Cancer Annual Conference, Khartoum, Sudan, 2013
 62. The Clinician & Research, the 6th Annual Anaesthesia Conference, Khartoum, Sudan, 2014
 63. The High Infant mortality of the clinicians – scientists, the Annual Conference of Obstetricians and Gynaecologists, Khartoum, Sudan, 2014.
 64. Mycetoma journey in Sudan, The Professorial Lecture, The Six Annual Post-Graduate Conference, University of Khartoum, Khartoum, Sudan, 2015.
 65. Mycetoma a neglected problem, The Six Annual Post-graduate conference, University of Khartoum, Khartoum, Sudan, 2015.
 66. Ethics of clinical trial, Clinical Research: Operational Management & Ethical Implications Workshop Khartoum, Sudan, 2016.

67. The Clinical Trials: Operational Management & Ethical Implications Workshop Khartoum, Sudan, 2017.
68. Mycetoma. The Pan Arab Conference of Dermatologists, Khartoum, Sudan, 2018.
69. Mycetoma a Neglected medical and health problem, The Mycetoma Seminar, Ministry of Higher Education and Scientific Research, Khartoum, Sudan, 2018.
70. Scientific Research funding, Ministry of Higher Education and Scientific Research, Khartoum, Sudan, 2018.
71. Mycetoma: Why it is a unique neglected problem, The Six International on Mycetoma, Khartoum, Sudan, 2019.
72. Surgical Treatment of Mycetoma, The First International Workshop on Mycetoma, Khartoum, Sudan, 2019.
73. Mycetoma: The Basics, The First International Workshop on Mycetoma, Khartoum, Sudan, 2019.
74. Research Funding Opportunities, The University of Khartoum Annual Scientific Research Conference, Khartoum, Sudan, 2019
75. The Traditional Medicine Practice among Mycetoma Patients, The Traditional Medicine Working Group Meeting, Khartoum, Sudan, 2020.

International Conferences & Meetings

76. Appendicular masses in Khartoum. Pan Arab Doctors, Annual Conference, Baghdad, Iraq, 1989.
77. Gastro-intestinal tumours in Sudan. Arab-African Society of Gastroenterology and Endoscopy, Harare, Zimbabwe, 1989.
78. Hepatitis and HIV infection and gastro-intestinal tract cancer. The African Association for the Study of Liver Disease Conference, Cape Town, South Africa, 1992.

79. Infections in association with gastro-intestinal tract cancer. The Jordanian Association of Gastroenterology, Annual Congress, Amman, Jordan, 1992.
80. The blood supply in mycetoma. The Pan Arab Association of Surgeons, Annual Conference, Cairo, Egypt, 1993.
81. Pattern of intestinal obstruction in Khartoum. The Pan Arab Association of Gastroenterology, the Annual Congress, Amman, Jordan, 1995.
82. The Cytodiagnosis of mycetoma. The Pan Arab Association of Surgeons, Annual conference, Amman, Jordan, 1995.
83. The microcirculation in mycetoma. The Association of South Africa of Surgeons, Annual Conference, Victoria Falls, Zimbabwe, 1996.
84. The efficacy of Itraconazole in the treatment of Eumycetoma caused by *Madurella mycetomatis*. The Pan African Association of Surgeons, Annual conference, Nairobi, Kenya, 1999.
85. Mycetoma a major Problem in Africa, Pan African Association of Medical Mycology, Hartenboush, South Africa, 2005.
86. The treatment of Eumycetoma caused by *Madurella mycetomatis*. The Pan Arab Association of Surgeons, Annual Conference, Manama, Bahrain, 2006.
87. Educational Development Centre experience in Medical Education, Abu Dhabi Annual Surgical Conference, Abu Dhabi, 2006.
88. Mycetoma in Sudan, Abu Dhabi Annual Surgical Conference, Abu Dhabi, 2006.
89. Educational Development Centre experience in Medical Education, WHO, Consultation Workshop, Manama, Bahrain, 2006.
90. Surgical Training, Abu Dhabi Annual Surgical Conference, Abu Dhabi, 2007.
91. E-Learning, Abu Dhabi Annual Surgical Conference, Abu Dhabi, 2007.
92. E-Learning, Faculty of Medicine, University of Malawi Annual Curriculum Reform Conference, Blantyre, Malawi, 2007.
93. EDC Khartoum, Faculty of Medicine, University of Malawi Annual Curriculum Reform Conference, Blantyre, Malawi, 2007.
94. OSCE, Curriculum Reform Workshop, Faculty of Medicine, Sana'a University, 2007.
95. Teaching and learning, Curriculum Reform Workshop, Faculty of Medicine, Sana'a University, 2007.
96. Curriculum planning, Curriculum Reform Workshop, Faculty of Medicine, Sana'a

- University, 2007.
97. The impact of E-Learning in undergraduate medical education, The First Saudi International Medical Education Conference, Riyadh, 2008.
 98. Computer-Based Assessment, The First Saudi International Medical Education Conference, Riyadh, 2008.
 99. If we are going forwards we are in fact going backwards, The First International Conference on Recent Advance in Surgery and Surgical Education, Jeddah, 2008.
 100. Post-graduate Surgical Training Assessment, The First International Conference on Recent Advance in Surgery and Surgical Education, Jeddah, 2008.
 101. The mycetoma story, The Second Conference for Faculty of Medicine at the University of Jordan and 5th Conference for Jordanian Medical Faculties, Amman, Jordan, 2009.
 102. E-Learning, The Second Conference for Faculty of Medicine at the University of Jordan and 5th Conference for Jordanian Medical Faculties, Amman, Jordan, 2009.
 103. Quality of Post-Graduate Surgical training, The Second International Conference on Recent Advance in Surgery and Surgical Education, Jeddah, 2010.
 104. The Mycetoma Story in Sudan, The Second International Conference on Recent Advance in Surgery and Surgical Education, Jeddah, 2010.
 105. Presentation skills, The Second Saudi International Medical Education Conference, Jazan, 2010.
 106. The Mycetoma Story, The Second Conference on Recent Advances in Surgery and Surgical Education, Jeddah, KSA, 2010.
 107. The Surgical Training Quality Assurance, The Second Conference on Recent Advances in Surgery and Surgical Education, Jeddah, KSA, 2010.
 108. Amoebic Liver Abscess, Delta the 15th International Conference on Liver Diseases & Fevers, Alexandria, Egypt, 2010.
 109. Is there is a need for Quality assurance in Medical Education. The First International Conference on Health Educational and Accreditation, WHO, and WFME/EMRO Accreditation, Sana'a, Yemen, 2010.
 110. Quality Assurance in Medical Education. Um EL Quraa Medical School Staff Meeting, Um EL Quraa, KSA, 2011.
 111. The confusing benign breast conditions, the 3rd Conference on Updates & Recent Advances in General Surgery and Surgical Education, King Faisal Specialist Hospital & Research Center, Jeddah, KSA, 2012.
 112. Simulation in Medical Education, the 3rd Conference on Updates & Recent Advances

- in General Surgery and Surgical Education, King Faisal Specialist Hospital & Research Center, Jeddah, KSA, 2012.
113. Mycetoma Update, King Faisal Specialist Hospital & Research Center, Riyadh, KSA, 2012.
114. Teaching & Learning Spotlight, The Third Saudi International Conference in Medical Education, The Saudi Medical Educational Association, Riyadh, KSA, 2012.
115. The management of iliac artery occlusion. The Vascular Surgical Society of Great Britain and Ireland, Annual Conference, New Castle, UK, 1987.
116. The management of intra-abdominal sepsis. The Middlesex and University College Hospitals, The Surgical Meeting, London, UK, 1987.
117. Surgery in Sudan. University College Hospital, The Surgical Meeting, London, 1987.
118. Percutaneous drainage of intra-abdominal fluid collection. University College Hospital, The Gastroenterology Meeting, London, 1987.
119. Thyroid function in schistosomiasis patients. The World Congress of Gastroenterology, Los Angeles - USA, 1994.
120. The vasculature of mycetoma. The European Conference of Tropical Medicine, Hamburg, Germany, 1995.
121. Mycetoma in Sudan. University of Rotterdam, Rotterdam, The Netherlands, 1997.
122. Mycetoma. Visiting Professor Guest Lecture, School of Microbiology, University of New Castle, New Castle, England, 1998.
123. Actinomycetoma in Sudan caused by new organisms, The systematic and evolution group of the Society for General Microbiology, the 149th Meeting, University of East Anglia, Norwich, England, 2001.
124. Mycetoma thorn on the flesh, Guest lecture, The Royal Society of Tropical Medicine and Hygiene, London, UK, 2003.
125. New trends in medical education, Iran International Medical Education Conference, Tehran, Iran, 2003.
126. Mycetoma a global health problem, Global Academy of Tropical Surgery, Cairo, Egypt, 2004.
127. Medical Education in Sudan, Royal College of Physicians, London, UK, 2004.
128. Mycetoma; A Heavy disease burden for Africa. The International Medicine and Health in the Tropic Congress. Marseille, France, 2005.
129. Educational Development Centre: 30 years' experience. Association of Medical Education for Europe. Amsterdam, The Netherlands, 2005.

130. Actinomycetoma in Sudan, The International Society of Nocardia, Lyon, France, 2005.
131. Mycetoma; Clinical Presentation. The International Society of Human and Animal Mycology, Paris, France, 2006.
132. The impact of the Educational Development Centre, University of Khartoum in Sudan and the region. Association of Medical Education for Europe. Genoa, Italy, 2006.
133. The use of information technology among medical students, Faculty of Medicine, University of Khartoum. Association of Medical Education for Europe. Trondheim, Norway, 2007.
134. Mycetoma, clinical presentation, The Fourth International Conference on Mycetoma, Monterrey, México, 2007.
135. Actinomycetoma in the Sudan, The Fourth International Conference on Mycetoma, Monterrey, México, 2007.
136. Medical Education in Sudan, the Association of Medical Education for Europe. Prague, Check Republic, 2008.
137. The use of information technology among surgical teachers in Sudan. Association of Medical Education for Europe. Malaga, Spain, 2009.
138. The breast carcinoma in Sudan, the General Meeting, Providenciales General Hospital, Turks & Caicos Island, Caribbean, 2011.
139. The management of hernia, the General Meeting, Providenciales General Hospital, Turks & Caicos Island Caribbean, 2011.
140. The Mycetoma Research Centre, University of Khartoum, Sudan: a success story that needs support. "Towards a Sustainable Knowledge-Based Economy in the Middle East & North Africa conference", University of Sussex, UK, 2013.
141. Eumycetoma how it is still a neglected disease, The American Society of Tropical Medicine and Hygiene, 62nd Annual Conference, Washington DC, USA, 2013.
142. Mycetoma from bench to the field, Sudan Doctors Union, Ireland, Annual Conference, Dublin, Ireland, 2013.
143. The Mycetoma Research Centre: The Aspirations and Reality, The Sudanese American Medical Association, Washington DC, USA, 2013.
144. Mycetoma: A Unique Neglected Tropical Disease, Penn State Hershey Medical Centre, Pen State University, Hershey, USA, 2013.
145. Mycetoma a socio-economic dilemma, Mycetoma Meeting, DNDi, Bahir Dar, Ethiopia, 2014.

146. Mycetoma update, Faculty of Pharmacy, Misrata University, Misrata, Libya, 2014.
147. The mycetoma clinical presentation, Mycetoma Symposium, The 9th European Congress on Tropical Medicine & International Health, Basel, Switzerland, 2015
148. Mycetoma: What is it, Department of Infectious Diseases Academic Meeting, University Hospital Basel, Basel, Switzerland, 2015.
149. Mycetoma: Current State and Future Prospects, Centre for Bacterial Cell Biology, University of Newcastle, UK, 2015.
150. Neglected skin mycosis. The European Congress of Medical Microbiology and Infectious Diseases, Amsterdam, The Netherlands, 2016
151. Emerging challenges: The mycetoma paradigm, The 40th Conference of Indian Association of Medical Microbiologists, Chandigarh, India, 2016.
152. Mycetoma. The United Nations University, Kyoto, Japan, 2016.
153. Ethics of clinical trial, Clinical Research: Operational Management & Ethical Implications Workshop, University of Applied Sciences and Arts, Hochschule Hannover, Germany 2017.
154. Mycetoma: A neglected medical problem. Riken Center for Life Science Technologies Yokohama, Japan 2017.
155. Ethics of clinical trial, Clinical Research: Operational Management & Ethical Implications Workshop, University of Applied Sciences and Arts, Hochschule Hannover, Germany May 2018.
156. Mycetoma a forgotten medical problem. Tours University, Tours, France, 2018.
157. Closing the mycetoma gaps, ISHAM 2018, Amsterdam, The Netherlands, 2018.
158. Mycetoma what is it, Infection and Immunity Centre, York University, York, UK, 2018
159. Mycetoma a neglected Tropical Disease, the Royal Society of Tropical Medicine and Hygiene, Annual Conference, London, 2018
160. Mycetoma: Why it is a unique neglected problem, The Institute of Dermatology, Karachi, Pakistan, 2019.
161. Mycetoma: Aga Khan University, Karachi, Pakistan, 2019.
162. Mycetoma: A Unique Medical and Health Problem, Karachi, Pakistan, 2019.
163. Mycetoma, an elephant in the room. The medical Mycology of Nigeria, the First Annual Conference, Lagos, Nigeria, 2019
164. Mycetoma a socioeconomic medical and health problem. Pan-Dermatologist conference, Benha, Egypt, 2019

165. Mycetoma in Sudan. Simposio Internacional De Micetoma, Asociacion Mexicana De Micologia Medica, Webinar meeting, 2020

Experience in

- ***Teaching***
- ***Research Supervision***
- ***Professional Examinations***

Teaching Experience

Undergraduate Teaching:

Actively involved in the teaching of undergraduate medical students as well as dental and nursing students in the form of clinical rounds, lectures, tutorials and seminars at Soba University and Khartoum Teaching Hospitals in Sudan (1981-Present) and the Middlesex and University College Hospitals, London - United Kingdom (1986-1988)

4th Year Medical Students:

- In the form of clinical ward rounds and clinical demonstration

5th Year Medical Students:

- Organiser of surgical teaching (1988-1995)
- Introduction for the first time the Surgical Seminar activity
- Supervision of many 5th year medical students' dissertations in Community Medicine
- Organisation of fieldwork and surveys in Surgery & Community Medicine

6th Year Medical Students:

- Regular weekly evening tutorial with hospital clinical teaching.
- Organiser of the Surgical Club (1984 - 1986, 1988 - 1991), this is a weekly academic surgical activity attended by surgeons from different hospitals and junior doctors.
- Introduction for the first time, the Objective Structured Clinical Examination (OSCE) at the University of Khartoum for the final MBBS Examinations, 1989.
- Contribution to the development of the curriculum in surgery for medical students.

Training & Supervision of Post-graduates Students

Professional Training

House Officers:

Basic surgical training for a group of house-officers (5-6) every three months at Khartoum Teaching and Soba University Hospitals. The training includes management of surgical patients, acquiring basic clinical and operative skills and performing simple minor emergency and elective operations under supervision.

Senior House Officers:

Training in clinical and operative management of most of the routine emergency and elective conditions under supervision.

Surgical Registrars:

These are post-graduate students for the Doctoral Degree in Clinical Surgery (Sudan). 200 registrars have been trained professionally in surgery during their rotation under my supervision. Most of them are surgical specialists and consultants now.

The training involves the following activities:

- Preoperative care of patients
- Operative techniques and skills
- Postoperative care of patients
- Outpatients-Department activities, this involves training in organisation of patients handling, booking for surgery, diagnostic approach, outpatient surgical care and performing minor operations
- Casualty training: a 24 hours cover of all general surgical casualty cases admitted to Khartoum Teaching Hospital and Ibrahim Malik Hospital. Rota 1 in 3. This involves close supervision
- Academic teaching and weekly discharge clinic
- Teaching professional ethics
- Surgical audit
- Medical Education

Training in special procedures:

- Upper and lower gastro-intestinal endoscopy
- Tru-cut needle breast biopsy
- Fine Needle Aspiration cytology technique for masses
- Vascular Doppler ultrasound examination

Training, Teaching & Activities In Medical Education

- WHO Consultant in Medical Education.
- Visiting Professor to Sanna University, Yemen, (2003, 2007, 2011).
- Trainer of Trainers in Health Sciences, EDC Khartoum, (1997- Present)
- Chairman of the Organizing Committee of the First, Second, Third International Conferences on Medical Education in Sudan, Khartoum, Sudan, 2005, 2007, 2009.
- Chairman of the Organizing Committee of The Regional Workshop on Medical Education, The Scientific Society of Arab Medical Schools, Khartoum, Sudan, 2012.
- Established the Educational Development Centre new premises, Faculty of Medicine, University of Khartoum premises, Khartoum, 2003
- Established the Clinical Skills Laboratory, Educational Development Centre, Faculty of Medicine, University of Khartoum, Khartoum, 2005.
- Established the Integrated Teaching Centre, Faculty of Medicine, University of Khartoum, 2006
- Established the new Educational Development Centre, Faculty of Medicine, Ahfad University, 2008.

Organiser of the following training courses:

- Research Methodology (1996 - Present)
- Students Assessment & Evaluation (2000 - Present)
- Educational Planning (2000 - Present)
- Teaching Methodology (2000 - Present)
- Research Methodology for Post-Graduate Students (2000 -Present)
- Scientific Writing (2002 - Present)

- Medical Informatics (2002 - Present)
- Presentations Skills (2002 - Present)
- Supervision (2003 - Present)
- HIV & Aids Communication And Consulting (2002 - Present)
- Emergency Life Support (2002 - Present)
- Severe Trauma Life Support (2002 - Present)
- E. Learning (2004 - Present)
- Evidence-Based Medicine (2004 - Present)
- Research Proposal Writing (2008 - Present)
- Objective Structured Clinical Examination (2007- Present)
- Clinical Teaching (2008 - Present)
- CV Writing (2008 - Present)
- Advanced Skills Presentation (2008 - Present)

- **Establishment of the Virtual Patients Campus at the University of Khartoum,**
Website. <http://classes.uofk.edu/course/category.php?id=142>

Supervision of Research

Supervised 35 Registers in Surgery and other disciplines thesis, these registrars are:

Dr. Raffat Bushra Salih.	1987
Dr. Abdel Gawi Hag Anwar.	1987
Dr. Kamal Izz Eldin.	1988
Dr. Mubarak Mekki.	1991
Dr. Salah Abdel Razig.	1991
Dr. Mohammed Toum Musa.	1992
Dr. Adil Ibrahim.	1993
Dr. El Tayeb Sourkati.	1994
Dr. Abdel Basit EL Sayed Ali.	1994
Dr. Mutaz Abdel Aziz.	1995
Dr. Yassir Adam.	1996
Dr. Mahmoud Ali.	1996
Dr. Noha Omer Barido.	1996
Dr. Khalid Awad	1996
Dr. Abdel Wahid EL Ragim.	1996
Dr. Osman EL Sannosi.	1997
Dr. Iyman EL Shiek.	1997
Dr. Amira Ziano.	1998
Dr. Intasar Ibrahim.	1998
Dr. Haydir Mohd.	1997
Dr. Sief Ibrahim.	1999
Dr. Abu Bukker Hassan	2004
Dr. Niema EL Khabli	2005
Dr. Ahmed A Fatah	2005
Dr. Fatma Mohd.	2005
Dr. Amir Mohd	2007
Dr. Fatima El Sadig A. Alla	2008
Dr. Mohd Yousif	2009
Dr. Hagir Ahmed	2010
Dr. Dalia Abdulla	2010
Dr. Eshraga Abake Ezaldeen	2013
Dr. Ali Hago	2015
Dr. Buthayna Mamoun	2015
Dr. Raef Mohamed	2016
Dr. Mohamed Tafour	2020
Dr. Mubark Mohamed	2020

Co-supervision for thesis of the following registrars

Dr. Kamal El Zaki.	1990
Dr. Imad Hussein (MD Clinical Medicine).	1994
Dr. Hayiat Ahmed (MD Clinical Anaesthesia).	1998
Dr. Fatima Hassam (MD Radiology)	1998
Dr. Mohamed Abdella (MD Radiology)	2019

Thesis in progress:**Supervision of Master Degree students (by research)**

- Miss Amel F. Farouk, MSc Molecular Biology, University of Khartoum. HLA frequency in Sudanese mycetoma patients
- Miss Rasha W. Shanteir, MSc Molecular Biology, University of Khartoum, Monitoring of antibody response in Sudanese mycetoma patients
- Miss Israa O. Elrayah, MSc Molecular Biology, University of Khartoum, Analysis of the cellular immune response of mycetoma patients: IFNg and IL-10 profiles
- Dr. Abdel EL Badie Mustauim, MSc Pharmacokinetics, University of Khartoum, The pharmacokinetics and pharmacodynamics of ketoconazole in the treatment of mycetoma patients
- Dr. Intasar A Rahman, MSc Pharmacology, University of Khartoum, The efficacy of ketoconazole in the treatment of eumycetoma Patients
- Mr. Abdella Osman Ahmed, MSc Molecular Biology, University of Khartoum, Development of a Species-Specific PCR-Restriction Fragment Length Polymorphism Analysis Procedure for Identification of *Madurella mycetomatis*
- Mr. Magdi Mohd. MSc Histopathology. University of Khartoum, Section Staining for Mycetoma.

- Dr. Nawal Mohamed Mahmoud, Msc Public and Tropical Health, Epidemiological Features of Oesophageal Cancer
- Mrs. Hanan Hassan abdullah, MSc Community Nursing, Gazeria University, The Effects of Short Term Health Education program in the quality of life of post-mastectomy patients in the Qassim region, KSA.
- Miss Anahid Azz EL Din, Medical Laboratory, University of Khartoum, Heavy Metals in Madurella Mycetomatis
- Mr. Emmanuel Edwar Siddig, Medical Laboratory Sciences, University of Khartoum, Histochemical and Immunohistochemical exploration of Mycetoma causatives agent and host tissue reactions.

Thesis in progress for Master-Degree (by research):

Supervision of PhD Students

- Dr. Abdella Osman Ahmed, "Molecular and biological studies on Madurella mycetomatis infection in man and mice", Erasmus Medical Centre, Rotterdam University
- Dr. Wendy Van de Sande, Genetic variability, antigenicity and antifungal susceptibility of Madurella Mycetomatis, Erasmus Medical Centre, Rotterdam University
- Miss Fatima Abdel Rahman, Herbal treatment of mycetoma, University of Khartoum
- Mrs. Niemat Hassan abdullah, Knowledge, Attitude and Behavior of Sudanese Women towards Breast Self-Examination, University of Gazeria
- Dr. Hassabelrasoul Elfadil Hassan, Student, New Herbal treatment of mycetoma
- Miss Sarah Abdulla, New insights into a disfiguring fungal disease, eumycetoma, Amsterdam University, The Netherlands

PhD Thesis in Progress

- Dr. Rowa Fath EL Rahmanin, Epidemiology of mycetoma in Sudan in collaboration with Sussex and Bridgton University, UK.
- Miss Rayan Ali, genetics of Mycetoma, in collaboration with Sussex and Bridgton University.
- Dr. Mohamed Nasar, the social aspects of Mycetoma, in collaboration with Sussex and Bridgton University, UK.
- Miss Hayem Mohamed, Mathematical modelling for the Diagnosis of Mycetoma, in collaboration with Tours University, France.
- Dr. Lamis Yahia, Drug repurposing for the treatment of Mycetoma, in collaboration with Tours University, France
- Mr. Emmanuel Edwar Siddig, News molecular diagnostics for Mycetoma, in collaboration with Rotterdam University, The Netherlands

Supervision of Medical & Health Students Research

- Supervised many Medical & Health Students in their dissertations in Community Medicine and Medical Microbiology.

Clinical Pharmacy Master Students, Queens' University, Belfast, UK

- Dr. Hiaba ELMusharf, 2016
- Dr. Mohamed Mustafa in progress

Professional Examinations Experience

Post-Graduate Examinations

- Member, Court of Examiners, The Royal College of Surgeons of England, 2014.
- Member, Court of Examiners, The Royal College of Surgeons of Edinburgh, 2014.
- External Examiner in MD Surgery, Libyan Post-Graduate Medical Board, Mousrata, Libya, 2013, 2014.
- PhD External Examiner, Department of Medical Microbiology & Infectious Diseases, Erasmus Medical Centre, Rotterdam University, 2003, 2007.
- PhD External Examiner, Amsterdam, 2106.
- OSCE Organiser for the final MD Surgery (Sudan), 2008- Present
- Examiner, MD Surgery (Sudan), 1995 – Present

Under-Graduate Examinations

- External Examiner in Surgery for the final MBBS Examination, Faculty of Medicine, Um EL Qura, Makah, KSA, 2011.
- External Examiner in Surgery for the final MBBS Examination, Faculty of Medicine, EL Sharagh, UAE. 2010
- External Examiner in Surgery for the final MBBS Examination, University of Ahfad for Women, Sudan, 2016
- External Assessor for the Faculty of Medicine and Health Sciences, Shandi University, Sudan, 2008
- Examiner in Surgery for the final MBBS Examination, Faculty of Medicine, EL Gadaraf University. Sudan, 2008
- Examiner in Surgery for the final MBBS Examination, University of Khartoum, (1984 -

1986, 1988 - Present)

- Examiner in Surgery for the final MBBS Examination, University of Gaziera, Sudan (1988 - Present)
- Examiner in Surgery, Faculty of Dentistry, University of Khartoum, Sudan, (1984 - 1986, 1988 - 1990).
- Examiner in Physiology, University of Khartoum, Khartoum – Sudan, (1988, 1990)
- Examiner in Physiology, Part (1) MD. Clinical Surgery, University of Khartoum, Khartoum, (1994)
- Examiner in Surgery in the final MBBS Examination, Ahfad University for Women, Omdurman (1996 - Present)
- External examiner in Surgery for the final MBBS Examination, EL Fashir University, Sudan, (Sudan Medical Council representative), (1998)
- Examiner in Surgery in the final MBBS Examination, Upper Nile University, Sudan, (2001).
- Examiner in Surgery in the final MBBS Examination, University of Medical and Health Sciences, (2001 – 2003).

***Research Grants
&
Funds Generations***

Awarded Research Grants:

Awarding body	Grant holders Name	Project Title	Amounts awarded	Role in project	Start date	End date
Global Health Innovative Technology Fund	Abugessaisa, PI Fahal, Co-investigator	“MycEXomics: Development of a field-friendly point-of-care diagnostic test for mycetoma”.	¥ 28,593,79	Co Investigator	2020	2021
NIHR UK	Prof Gail Davey Dr Shahaduz Zaman (PI) Ahmed Fahal	NIHR Global Health Research Unit	GBP 3,206,307	Co Investigator	2019	2023
York University	Paul Key (PI) Ahmed Fahal (Co-investigator)	Mycetoma immunopathology	GBP 27 500	Co-investigator	2018	2019
DNDi Switzerland & GHIT Japan	Ahmed Fahal (PI)	Clinical trial of fosravuconazole	€5,000,000	PI	2017	2020
NIHR UK	Melanie Newport (PI) Ahmed Fahal (Co-investigator)	NIHR Global Health Research Unit	GBP 5,745,589	Co-investigator	2017	2021
WHO Grant	Ahmed Fahal (PI)	Mycetoma epidemiology in Gazeria State	\$ 6 000	PI	2015	2017
TDR/WHO	Sahar Bakhat (PI) Ahmed Fahal (Co-investigator)	Mycetoma epidemiology in Sennar State	\$ 20 000	Co-investigator	2017	2018
Ministry of Higher Education Grant	Ahmed Fahal	Mycetoma epidemiology in Sudan	\$ 60 000	PI	2014	2016
Ministry of Higher Education	Sahar Bakhat (PI)	Immune response of Mycetoma patients	\$7 000	Co-investigator	2016	2017

Grant	Ahmed Fahal (Co-investigator)					
Ministry of Higher Education Grant	Dr. Nagwa Joda (PI) Ahmed Fahal	Is mycetoma a vector-borne disease	\$7 000	Co-investigator	2018	2019
Ministry of Higher Education Grant	Dr. Yousra A Azzium (PI) Ahmed Fahal	Protein Biobank	\$7 000	Co-investigator	2018	2019
Ministry of Higher Education Grant	Dr. Mohamed Osman (PI) Ahmed Fahal	Mycetoma Immunopathology	\$7 000	Co-investigator	2018	2019
Ministry of Higher Education Grant	Waleed El Amin (PI) Ahmed Fahal	Mycetoma diagnostic test development	\$75 000	Co-investigator	2017	2018
Wellcome Trust Fund	Ahmed Fahal	International Mycetoma Conference	\$15 000	PI	2002	2002
WHO	Ahmed Fahal	The efficacy of itraconazole in the treatment of patients with eumycetoma due to <i>Madurella mycetomatis</i> .	\$12 000	PI	2006	2008
University of Khartoum	Ahmed Fahal	Mycetoma pathogenesis	\$10000	PI	2009	2010
University of Khartoum	Ahmed Fahal	Management of Hand infection in Khartoum	\$500		1991	

Generation of Funds

- Funds for the establishment of the Mycetoma Vocational Training Centre, the Japan Embassy, in Sudan, 2020, (Ground Grass Fund) (81 500Euro)
- Funds for the establishment of the Mycetoma Vocational Training Centre, Different donors, 2020, (100 500 Euro)
- Funds for the establishment of the Mycetoma Research and Development Archade, The Mycetoma Research Centre, The French Embassy, in Sudan,2020, (50 000 Euro)
- Funds for the establishment of the histopathology Laboratory, Zakaa Fund, Khartoum, Sudan, 2019. (10 000 US\$)
- Funds for the Patient Friends Support Society, Sudan, 2018, 2019. (5 000 US\$)
- Funds for artificial prosthesis for mycetoma patients, Zakaa Fund, Khartoum, Sudan, 2019. (10 000 US\$)
- Funds for the improvement of the mycetoma Research Centre infrastructure International Voluntary Welfare Group, Khartoum, Sudan, 2017, 2018, 2019. (70 000 US\$)
- Real-time PCR machine from ASPIO Funds, Milano, Italy, 2017 (40000 US\$).
- Funds for the establishment of the new animals' cages at Wad EL Nimar Village, Senamir Engineering Company, Khartoum, Sudan, 2017. (40 000 US\$)
- Funds for the improvement of the mycetoma Research Centre infrastructure International Voluntary Welfare Group, Khartoum, Sudan, 2017. (35 000 US\$)
- Funds for the establishment of the Clinical Trial Unit, the Mycetoma Research Centre, University of Khartoum, Khartoum, Sudan, 2016. (100 000 US\$)
- Funds for the establishment of Prof EL Hassan Molecular Laboratory, the Mycetoma Research Centre, University of Khartoum, Khartoum, Sudan, 2014. (100 000 US\$)
- The establishment of the Sudapaedia Electronic Library, in collaboration with Suna Press Agency, the Main Library, University of Khartoum Library, Khartoum, Sudan, 2014. (10 000 US\$)
- The establishment of the Motozi Japanese Cultural Centre, in collaboration with the Rotheno Foundation, the Main Library, University of Khartoum Library, Khartoum, Sudan, 2014. (100 000 US\$)
- Hagggar Foundation, for the habilitation of the University of Khartoum Library, 2012 (100 000 US\$).

- Faisal Islamic Bank for the habilitation of the University of Khartoum Library, 2012, 2014, (10, 000 & 500,000 US\$).
- Foreign embassies in Sudan for the habilitation of the University of Khartoum Library, 2012-216 (500 000 US\$).
- Haggar Foundation, to establish the E. Learning Centre, Soba University Hospital, 2010 (80 000 US\$).
- Different donors, to establish The Mycetoma Research Centre new premises (100 000 US\$).
- Dewan EL Zaka, Khartoum - Sudan, for the treatment of mycetoma patients (15 million SD/P).
- MSF- Holland, Holland, for the treatment of mycetoma patients, (40 000 US\$).
- Z-Medical Trade Company, Khartoum, Sudan for mycetoma patients treatment, (1000 US\$).
- Mercy Corps International, USA, to Soba University Hospital, University of Khartoum, in the form of medicines, medical equipment and others: (10 000 US dollars).
- Different donors, to Department of Surgery, Faculty of Medicine, University of Khartoum for rehabilitation, (35 000 US\$).
- WHO, EMRO, to the establishment of the Electronic Library of the Medical Campus, University of Khartoum. (55 000 US dollars).
- Welcome Trust Foundation (15.000 US\$) and (75 000 US\$) from local donors for the third international on mycetoma, Khartoum, Sudan, 2002.
- Different donors for The First International Conference on Medical Education, Khartoum, Sudan, 2005, (150 000 US\$).
- Different donors for The Second International Conference on Medical Education, Khartoum, Sudan, and the Mycetoma Research Centre, 2007, (400 000 US\$).
- Different donors for The Third International Conference on Medical Education, Khartoum, Sudan, and the Mycetoma Research Centre, 2009, (400 000 US\$).
- Different donors for The Fifth International Conference on Mycetoma, Khartoum, Sudan, and the Mycetoma Research Centre, 2011, (100 000 US\$).

Mycetoma Research Centre

The Founding Director of Mycetoma Research Centre

Mycetoma is a common health problem, endemic in many tropical and subtropical regions characterised by devastating deformities, disability, high morbidity and serious negative socio-economic impacts on patients, families, communities and health authorities. Yet, it enjoys meagre attention across the globe, and that culminated in massive knowledge gaps in various aspects of mycetoma.

The Mycetoma Research Center (MRC) was established in 1991 under the umbrella of the University of Khartoum. It was set up at Soba University Hospital to provide an integrated high-quality medical care for Mycetoma patients, conduct research and education and teaching in the various aspects of Mycetoma. The centre is recognised globally as a world leader and an authoritative advisor in Mycetoma management and research. It is the only WHO Collaborating Centre on mycetoma globally.

The MRC is dedicated to the continuing discovery and development of scientific knowledge and clinical skills applied to the care of Mycetoma patients and to eradicate Mycetoma, as a life-mutilating disease, through the advancement of medical care, research, education and disease prevention.

The Justifications of the Mycetoma Research Centre include;

- Mycetoma is a common problem, it is endemic in many tropical and subtropical areas, and it is reported throughout the globe, and Sudan seems to be the mycetoma homeland.
- It affects young patients of low socio-economic classes. It has high morbidity and can be fatal.
- Both surgical and medical treatments are not satisfactory.
- It enjoys meagre attention by health and social sectors across the world, as it is a non-glorious disease. MRC had managed to include mycetoma at the WHO/Neglected Tropical Diseases List or the first after a long and difficult journey.

Mycetoma Research Centre executes this mission through the:

- Establishment of The Mycetoma Vocational Training Centre,
- Establishment of Wad Onsa Regional Mycetoma Unit, Eastern Sennar, Sennar State.
- Treatment of mycetoma patients (9500 patients are registered with the Centre).
- Establishment of the Mycetoma Control Programme with The Federal Ministry of Health, Sudan.
- Field visits to mycetoma endemic areas in Sudan for early detection using mobile ultrasound examination and cytology.
- Established mobile surgical units for surgery at the affected villages.
- Provision of artificial prosthesis for 170 patients
- Training of medical, surgical and paramedical staff at the Centre and in endemic regions.
- Involvement of the local health authorities, community leaders and activists on mycetoma management in endemic regions.
- Training of medical assistants, nurses on early case detection.
- Provides the endemic areas with trained medical and health staff.
- Conduction of the first-ever double-blind clinical drug trial study in mycetoma.
- Post-graduate students training (ten PhD, eight master degree students).
- Produces regular publications. (Textbook and more than 200 published articles).
- Cooperates and participates in various scientific activities of appropriate bodies worldwide.
- Organisation of the Third International Conference of mycetoma, Sudan, 2002, The Mycetoma International Week, Khartoum, 2009, the Fifth International Conference of mycetoma, Khartoum, 2011, the Sixth International Conference of mycetoma, Khartoum, 2019, the First International Workshop on mycetoma, Khartoum, 2019 and contributed to many international and regions meetings and conferences.
- Establishment of the mycetoma website at www.mycetoma.edu.sd for continuing professional development and education.
- Establishment of the mycetoma E. Learning module at www.mycetoma.edu.sd for continuing professional development and education.
- Establishment of Evidence-Based Mycetoma Management Guidelines.
- Health education for the public through Sudan, Sennar and Khartoum States TV, Blue Nile, Omdurman TV and EL Sharoog TV.

- Produced many video films, DVD and leaflets on mycetoma for public health education.
- Health education in rural endemic areas in Sudan
- Health Education in different Community clubs, mosques, schools
- Encourage fine art and artists activities
- Contribution to include the mycetoma at the WHO/Neglected Tropical Diseases Department, 2016
- Establishment of the International Mycetoma Consortium, 2013
- Designation of the MRC as the only WHO Collaborating Centre on Mycetoma, 2015
- Establishment of the Mycetoma Patients Friends, The Mycetoma Research Centre, 2015.
- Fundraising activities in collaboration with many civil societies.

Publications

Publications

1. Ibrahim A, Fahal AH. Recovery of radiologically functionless obstructed kidneys. *Br J Urol.* 1984; 56: 113-115. PMID: [6498428](#).
2. Fahal AH, Ibrahim A. Post - prostatectomy auto-irrigation with furosemide in the tropics. *Pharmatherapeutic.* 1986; 4(9): 590-594. PMID: [3094037](#).
3. Fahal AH. Acute Scrotum - Review article. *Post Graduate Doctor.* 1987; 10(5): 272-278.
4. Fahal AH, Yagi KI. Skin Endometriosis in Sudan. *Trop Geogr Med.* 1987; 39: 383-384. PMID: [3451419](#).
5. Fahal AH, Hassan MA. Fournier's Gangrene in Khartoum. *Br J Urol.* 1988; 61: 451-454. PMID: [3293689](#).
6. Ahmed ME, Fahal AH. Preoperative fasting state in patients undergoing elective surgery. *Emirates Med J.* 1988; 6: 135-137.
7. EL Nour SAM, Fahal AH. Vertebral Solitary Osteochondroma. *Saudi Med J.* 1988; 9(6): 622-626.
8. Fahal AH, McDollan A M, Marston A. Femorofemoral bypass in unilateral iliac artery occlusion. *Br J Surg.* 1989; 76: 22-25. PMID: [2917255](#).
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10. Babekir ARE, Fahal AH, Hediet Alla A. Oesophageal carcinoma in Sudan. *Trop Doct.* 1989; 19: 33-34. . PMID: [2922814](#).
11. Fahal AH. Gad El Rab MO, EL Abdin SZ. The immune status of Sudanese patients with gastrointestinal tract cancer. *Sudan Med J.* 1990; 28(1-4): 23-29.
12. EL Zaki K, Ahmed MELM, EL Hassan AM, Yousif MA, Fahal AH. Acute gluteal abscess following intramuscular chloroquine injection: A clinical and experimental study. *J Trop Med Hyg.* 1991; 98: 206-209. PMID: [2051527](#).
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15. Ezedeen K, Fahal AH, Ahmed ME. Management of hand infection in Khartoum. *East Afr Med J.* 1992; 69(11): 616- 618. PMID: [1298617](#).

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18. Fahal AH, Suliman SH, Sharfi AR, EL Mahdi MEA. Acute idiopathic scrotal oedema in association with diabetic septic foot. [Diabetes Res Clin Pract](#). 1993; 21(2-3):197-200. PMID: [8269822](#).
19. Fahal AH, Suliman SH, Gadir AFA, EL Hag IA, EL Amin FI, Gumaa SA, Mahgoub ES. Abdominal wall mycetoma: an unusual presentation. [Trans R Soc Trop Med Hyg](#). 1994; 88(1):78-80. PMID: [8154012](#).
20. Fahal AH, Suliman SH. Clinical presentation of mycetoma. *Sudan Med J*. 1994; 32: 46-66.
21. Fahal AH, El Hassan AM, Abdelalla AO, Sheik HE, Cystic mycetoma: an unusual clinical presentation of *Madurella mycetomatis*. *Trans R Soc Trop Med Hyg*. 1998; 92:6-67.
22. Fahal AH. Pneumatosis cystoid intestinalis. Review article. *Sudan Med J*. 1994; 32(1): 1-8.
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29. Fahal AH, EL Hag IA, EL Hassan AM, Hashim FA. Leishmanial cholecystitis and colitis in a patient with visceral leishmaniasis. [Trans R Soc Trop Med Hyg](#). 1995; 89: 284. PMID: [7660434](#).
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