

**Anthony Graham Fieggen**  
**Head, Division of Neurosurgery and Head, Department of Surgery**  
**Director, Neuroscience Institute**  
**University of Cape Town**

**Qualifications:**

BSc (Med) *University of Cape Town*  
MBChB *University of Cape Town*  
MSc (Neuroscience) (with distinction) *University of London*  
FCS (SA) (Neurosurgery) *Colleges of Medicine of South Africa*  
MD (Neurosurgery) *University of Cape Town*

**Present Positions:**

Helen and Morris Mauerberger Professor and Head, Division of Neurosurgery, University of Cape Town  
Chief Specialist in Neurosurgery, Groote Schuur Hospital and Paediatric Neurosurgeon, Red Cross War Memorial Children's Hospital  
Head, Division of Neurosurgery (2008-present)  
Head, Department of Surgery (2017-2021)  
Director, UCT Neuroscience Institute (2016-2020)

**Previous Positions:**

Registrar in Neurosurgery, Groote Schuur Hospital (1992-1997)  
Head of Paediatric Neurosurgery Unit, Red Cross War Memorial Children's Hospital (1998-2007)  
Clinical Chair, MBChB Program, University of Cape Town Faculty of Health Sciences (2014-2016)

**Organisations:**

President, International Society for Pediatric Neurosurgery (2017-2018)  
2<sup>nd</sup> Vice President (Africa), World Federation of Neurosurgical Societies (2017-2019)  
President-elect, Society of Neurosurgeons of South Africa (2016-2018)  
Editorial Board, Stereotactic and Functional Neurosurgery (2018-2020)

Chair, Pediatric Neurosurgery Committee of the World Federation of Neurosurgery (WFNS) (2013-2017)  
Continental Vice President, World Society for Stereotactic and Functional Neurosurgery (2013-2017)  
Inaugural President, Continental Association of African Neurosurgical Societies (2013-2016)  
Scientific Chair, International Society for Pediatric Neurosurgery (2015-2016)  
Annual Meeting Host, Society of University Neurosurgeons (2017)  
Annual Meeting President, International Society for Pediatric Neurosurgery (2008)

**Honours:**

Sir Victor Horsley Lecturer, *Society of British Neurological Surgeons*, Leeds UK (September 2012)  
Bruce Hendrick Visiting Professor, *The Hospital for Sick Children*, Toronto ON, Canada (October 2012)  
Visiting Professor, *Louisiana State University Division of Neurosurgery*, Shreveport LA, USA (April 2013)  
International Honoured Guest, *American Society for Pediatric Neurosurgery*, Big Island HI, USA (Jan 2015)  
International Honoured Guest, *University of Colorado 26<sup>th</sup> Annual Neurosurgery in the Rockies*, (Feb 2015)  
Invited Plenary Speaker, *15<sup>th</sup> Interim Meeting of the WFNS*, Rome, Italy, (September 2015)  
Sir Geoffrey Jefferson Lecturer, *Society of British Neurological Surgeons*, Liverpool UK (September 2017)  
Invited Plenary Speaker, *66<sup>th</sup> Annual Conference of the Neurological Society of India*, Nagpur, (Nov 2017)  
Visiting Professor, *Columbia University Department of Neurosurgery*, New York, USA (May 2018)  
Invited Plenary Speaker, *WFNS Symposium*, Kuala Lumpur, Malaysia (August 2018)

### **Selected publications:**

- Adams LP, Peter JC, Fieggen AG, Taylor AG, van Geems BA, Wynchank S. **The Cape Town Stereotactic Pointer: a novel application of photogrammetric theory** *Photogrammetric Record* 1998; 16 (92): 259-270
- Peter JC, Fieggen AG. **Congenital malformations of the brain- neurosurgical perspective at the close of the 20<sup>th</sup> century** *Childs Nerv Syst* 1999; 15 (11-12): 635 – 645
- Figaji AA, Fieggen AG, Peter JC. **Endoscopic third ventriculostomy in tuberculous meningitis** *Childs Nerv Syst* 2003; 19 (4): 217-225
- Figaji AA, Fieggen AG, Peter JC. **Early decompressive craniotomy in children with severe traumatic brain injury** *Childs Nerv Syst* 2003; 19 (5): 666-673
- Fieggen AG, Dunn R, Pitcher RD, Millar AJW, Rode H, Peter JC. **Ischiopagus and pygopagus conjoined twins: neurosurgical considerations** *Childs Nerv Syst* 2004; 20 (8-9): 640-51
- Schoeman JF, Fieggen AG, Sellar N, Mendelson M, Hartzenberg HB. **Intractable intracranial tuberculous infection responsive to thalidomide: report of four cases** *J Child Neurol* 2006; 21 (4): 301-308
- Rode H, Fieggen AG, Brown RA, Cywes S, Davies MRQ, Hewitson JP, Hoffman EB, Jee LD, Lawrenson J, Mann M, Matthews LS, Millar A, Numanoglu A, Peter JC, Thomas J, Wainwright H. **Four decades of conjoined twins at Red Cross Children's Hospital- lessons learned** *S Afr Med J* 2006; 96 (9 part 2): 931-940
- Langerak NG, Lamberts RP, Fieggen AG, Peter JC, van der Merwe L, Peacock WJ, Vaughan CL. **A Prospective Study of gait in Diplegic Cerebral Palsy Patients Twenty Years after Selective Dorsal Rhizotomy** *J Neurosurg Pediatrics* 2008; 1 (3): 180-186
- Figaji AA, Fieggen AG, Argent AC, Le Roux PD, Peter JC. **Does adherence to treatment targets in children with traumatic brain injury avoid brain hypoxia? A brain tissue oxygenation study** *Neurosurgery* 2008; 63 (1): 83-91
- Figaji AA, Zwane E, Fieggen AG, Siesjö P, Peter JC. **Transcranial Doppler pulsatility index is not a reliable indicator of intracranial pressure in children with severe traumatic brain injury.** *Surg Neurol* 2009; 72 (4): 389-394
- Figaji A, Zwane E, Thompson C, Fieggen AG, Argent AC, Le Roux PD, Peter JC. **Brain tissue oxygen tension monitoring in pediatric severe traumatic brain injury: Part 1: relationship with outcome.** *Childs Nerv Syst* 2009; 25 (10): 1325-1333
- Langerak N, Vaughan CL, Hoffman EB, Figaji AA, Fieggen AG, Peter JC. **Incidence of spinal deformities in patients with spastic diplegia 17 to 26 years after selective dorsal rhizotomy.** *Ch Nerv Syst* 2009; 25 (12): 1593-1603
- Figaji AA, Fieggen AG. **The neurosurgical and acute care management of tuberculous meningitis: evidence and current practice.** *Tuberculosis (Edinb)* 2010; 90 (6): 393-400
- Rohlwink UK, Padayachy LC. Fieggen AG, Figaji AA. **The relationship between intracranial pressure and brain oxygenation in children with severe traumatic brain injury.** *Neurosurgery* 2012; 70 (5): 1220-1230
- Grunt S, Fieggen AG, Vermeulen RJ, Becher JG, Langerak NG. **Selection criteria for selective dorsal rhizotomy in children with spastic cerebral palsy: a systematic review of the literature.** *Dev Med Child Neurol* 2014 Apr; 56 (4): 302-12
- Fieggen G, Fieggen K, Stewart C, Padayachy L, Lazarus J, Donald K, Dix-Peek S, Toefy Z, Figaji A. **Spina bifida: a multidisciplinary perspective on a many-faceted condition.** *S Afr Med J* 2014 Mar; 104 (3): 213-7.
- Parkes J, Hendricks M, Ssenyonga P, Mugamba J, Schouten-van Meerteren A, Quaddoumi I, Fieggen G, Luna-Fineman S, Howard S, Mitra D, Bouffet E, Davidson A, Bailey S. **SIOP PODC Adapted Treatment Recommendations for Standard-Risk Medulloblastoma in Low & Middle Income Settings.** *Ped Blood Cancer* 2015 Apr; 62 (4): 553-64
- Rohlwink UK, Donald K, Gavine B, Padayachy L, Wilmshurst JM, Fieggen AG, Figaji AA. **Clinical characteristics and developmental outcomes of children with tuberculous meningitis and hydrocephalus.** *Dev Med Child Neurol* 2016 May; 58(5):461-8. doi: 10.1111/dmcn.13054. Epub 2016 Feb 16
- Padayachy LC, Brecken R, Fieggen AG, Selbekk, T. **Pulsatile dynamics of the optic nerve sheath and intracranial pressure: an exploratory in-vivo investigation.** *Neurosurgery* 2016 Aug; 63 Suppl 1: 151-2 doi: 10.1227/01.neu.0000489695.80667.35.
- Padayachy LC, Padayachy V, Galal U, Pollock T, Fieggen AG. **The relationship between transorbital ultrasound measurement of the optic nerve sheath diameter (ONSD) and invasively measured ICP in children: Part I: repeatability, observer variability and general analysis.** *Childs Nerv Syst* 2016 Oct; 32 (10) 1769-78