

**Curriculum Vitae
Of
Dr. Geoffrey Lesage**

PERSONAL DETAILS:

Surname: Lesage

Names: Geoffrey Ferdinand Francis

Date of Birth: 30th April 1978

Place of Birth: Ukkel
Belgium

Nationality: Belgian

Marital Status: Married

Languages : Dutch, French, English, German (passive)

CLINICAL EXPERIENCE:

1/ Present and Previous Appointments:

Present date

Full-time Neurosurgeon
Dr. Martens

Onze Lieve Vrouw Ziekenhuis, Moorselbaan 164, 9300 Aalst
Aalst, Belgium

November 2009-November 2010

Full-time Neurosurgeon: Spine and Oncology
Dr.G.Dua
Spine-Unit: Dr.R.Hes, Dr.B.Conix

ZNA Middelheim Hospital
Antwerp, Belgium

September 2009-November 2009

Fellowship awake craniotomy in Neurosurgery
Prof. Dr. Duffau

CHU Guy de Chauliac
Montpellier, France

September 2008-August 2009

Resident in Neurosurgery
Prof. Dr. D'Haens, Dr. Van Rompaey

UZ Brussel
Laarbeeklaan 107
1090 Jette

September 2007-August 2008

Resident in Neurosurgery

**(Dr. K.Van Overbeeke, Dr.G.Beute, Dr.S.Leenstra, Dr.C.De Nie,
Dr.I.Verhagen, Dr.ST Lie, Dr.P De Pauw, Dr. GJ.Rutten)**

Elisabeth Hospital
Hilvarenbeekseweg 60
5022 GC Tilburg
The Netherlands

September 2005-August 2007

Resident in Neurosurgery

(Dr.G.Dua, Dr.R.Klaes, Dr.R.Hes, Dr.M.De Praeter)

ZNA Middelheim Ziekenhuis
Lindendreef 1
2020 Antwerpen
Belgium

September 2004-September 2005

Resident in General Surgery

ZNA Middelheim Ziekenhuis
Antwerpen, Belgium

July 2005- September 2005: ICU (Dr. JP.Alexander)

April 2005-July 2005: Plastic Surgery (Dr. M.Mertens)

October 2004-April 2005: Orthopaedic Surgery (Dr. K.Brabants)

**September 2004-October 2004: Vascular surgery (Dr. D.De Roover, Dr.
J.Tombeur)**

August 2003-September 2004

Resident in Neurology

(Professor P.P.De Deyn.)

ZNA Middelheim Ziekenhuis,
Antwerpen, Belgium.

2/Internship:

July 2000-July 2003

During the last 3 years of my medical studies, I received clinical training in all the main fields of Medicine, Surgery, Paediatrics and Obstetrics at teaching hospitals affiliated to the Vrije Universiteit Brussel (Free University of Brussels) Laarbeeklaan 101, 1090 Brussels, Belgium). As a student I was responsible for clerking and the day-to-day management of the patients. As a student I was also first on-call, including during my night duties, for the speciality I was working for. I gained experience in neurosurgery during my internship in the neurosurgery ward of **Dr. LF.De Waele, Dr.H.Colle** (AZ St-Lucas Ziekenhuis, Groenebriel 1, 9000 Ghent, Belgium). July-September 2001, September 2002-February 2003). I had additional practice in the neurosurgery unit of **Professor Dr.D'Haens** (Free University Brussels); March 2001, January-April 2002, July-September 2002, May-July 2003).

SCIENTIFIC WORK:

1/ Presentations:

Neurosurgery:

A. Oral presentations:

International:

1. Congresso nazionale e Corso Residenziale XVII
Simposio Di Chirurgia Oncologica Vertebrale
Lettura: trattamento chirurgico dei tumori vertebrali
G. Lesage
Italië
6th November 2012
2. Development Medacta.
G. Lesage
Lugano, Zwitserland
14th September 2012
3. Development Zimmer.
G. Lesage
Minneapolis, Amerika,
8th-9th September 2012
4. Development Cormed.
G. Lesage
Marseille
16th April 2012
5. Fixation Devices; Clinical outcomes of Interbody Fusion Surgery; a literature review: Anterior, posterior and anterolateral.
G. Lesage
Bordeaux
15th – 16th March
6. Teaching spinal neurosurgery.
G. Lesage
Neurosurgeons Netherlands
Leiden
24th-25th February 2012
7. Teaching.
G. Lesage
Leiden
13th January 2012

8. Frameless stereotactic biopsy: safety and efficacy in 535 patients.
G.Lesage, P. Depauw, GJ. Rutten, B.Burhani, C.De Nie, I.Verhagen, ST.Lie,
S.Leenstra, J.Verheul, G.Beute
2010 ASSFN meeting
New York, USA
13th-16th June 2010

9. Safety and efficacy of frameless stereotactic biopsy. A single-centre review of 535 cases.
G.Lesage, P. Depauw, GJ. Rutten, B.Burhani, C.De Nie, I.Verhagen, ST.Lie,
S.Leenstra, J.Verheul, G.Beute
60th Annual Meeting of the German Society of Neurosurgery. Joint meeting with the Benelux and Bulgaria.
Munster, Germany
24th-27th May 2009

10. Subdural metastasis of prostate adenocarcinoma mimicking subacute subdural haematoma or meningioma 'en placque' in 6 patients: case illustration and review of the literature.
G.Lesage, P. Depauw, GJ. Rutten, B.Burhani, C.De Nie, I.Verhagen, ST.Lie,
S.Leenstra, J.Verheul, G.Beute
60th Annual Meeting of the German Society of Neurosurgery. Joint meeting with the Benelux and Bulgaria.
Munster, Germany
24th-27th May 2009

11. Lumbar total disc replacement, a clinical series of 350 patients with a minimum 2 years follow-up.
G.Lesage, R.Hes, B.Conix, G.Dua
7th Annual NeuroMeeting 2008
Premio Neuroscience Award 2008
Siena, Italy
6th-10th May 2008

12. Novel techniques in Spinal Surgery.
G.Lesage
Tilburg, The Netherlands
16th March 2008

13. Comparison of Single-level Versus Multi-level Charité Lumbar Total Disc Replacement - 289 Consecutive Prosthesis in a Prospective 6-year Follow-up Study.
G.Lesage, R.Hes, B.Conix, G.Dua
14th International Meeting on Advanced Spine Techniques
Whitecloud Award 2007
Paradise Island, Bahamas
11-14th July 2007

14. A 7-year Prospective Study of 347 Patients with the Charité Artificial Disc Prosthesis: A Clinical Outcome Follow-up.
G.Lesage, R.Hes, B.Conix, G.Dua
14th International Meeting on Advanced Spine Techniques
 Paradise Island, Bahamas
 11-14th July 2007
15. Round table discussion PCM cervical disc prosthesis.
14th International Meeting on Advanced Spine Techniques
 Paradise Island, Bahamas
 11-14th July 2007
16. Pituitary gland surgery: state of the art.
XXIst Conference International Academy of ORL-HNS
 B.Schmelzer, G.Dua, **G.Lesage, R.Mehta**
 Yalta, Ukraine
 21st May 2007
17. **Invited speaker:** 6 Year experience with the Charité total lumbar disc prosthesis, results and operative pitfalls.
G.Lesage, R.Hes, B.Conix, G.Dua
7th National Congress of the Spanish Neurosurgical Society: Neuroraquis
 Alicante, Spain
 7-9th March 2007
- Moderator** of discussion group and of case discussions in session on lumbar total disc replacement.
7th National Congress of the Spanish Neurosurgical Society: Neuroraquis
 Alicante, Spain
 7-9th March 2007
18. A 6-year follow-up prospective study of 289 patients with the Charité artificial disc prosthesis.
G.Lesage, R.Hes, B.Conix, K.Brabants, G.Dua
Vienna Future Symposium
 Vienna, Austria
 8-11th February 2007
19. Résultats préliminaires de la prothèse lombaire mobile (® Prodisc).
 G. Alessi, **G. Lesage, B. Noens, B.D'Haen, H. Colle, L.F. De Waele**
15^o journées du rachis-Luxembourg
 Luxembourg, Luxembourg
 23rd May 2003

National:

20. Wakkere Chirurgie bij patiënten met een hersentumor.
G. Lesage
Blankenberge
1the June 2012
21. Loc Groep huisartsen wervelkolomchirurgie.
G. Lesage
Aartselaar, Belgium
11the September 2012
22. Rugpijn en de behandelingen ervan.
G. Lesage
Leden en niet-leden vzw Ruggensteun
Aalst, Belgium
8the September 2012
23. Awake craniotomy
G.Lesage, G.Dua
Antwerp, Belgium
December 2010
24. Cervical and spinal surgeries: indications, techniques and postoperative care.
G.Lesage, R.Hes, G.Dua
Fysiotherapists of Antwerp
Boom, Belgium
20th May 2010
25. Surgery in metastatic spine tumors: new techniques open en minimal invasive.
G.Lesage, R.Hes, G.Dua
Circle of revalidation of Antwerp
Antwerp, Belgium
16th March 2010
26. Decompressive craniotomy in neurotraumatology: critical review of the literature.
G.Lesage, J.D'Haens
Interuniversity Seminar
Zaventem, Belgium
5th June 2009
27. Safety and efficacy of frameless stereotactic biopsy. A single-centre review of 535 cases.
G.Lesage, P. Depauw, GJ. Rutten, B.Burhani, C.De Nie, I.Verhagen, ST.Lie, S.Leenstra, J.Verheul, G.Beute
Annual Scientific Meeting of the Belgian Society of Neurosurgery
Liège, Belgium
21st March 2009

28. Safety and efficacy of frameless stereotactic biopsy. A single-centre review of 535 cases.
G.Lesage, P. Depauw, GJ. Rutten, B.Burhani, C.De Nie, I.Verhagen, ST.Lie, S.Leenstra, J.Verheul, G.Beute
Belgian Brain congress
 Winner Poster Price 2008
 Oostende, Belgium
 24-25th October 2008
29. The Middelheim Hospital Charité™ lumbar total disc replacement Clinical database report: a 6 year follow-up prospective study of 289 patients.
G.Lesage, R.Hes, B.Conix, K.Brabants, G.Dua
Flemish Society of Neurology
 VVN-Eli Lilly Price 2006
 Leuven, Belgium
 24th March 2007
30. Low back pain problems through history.
G.Lesage, R.Hes
Spring symposium MOVUB, Free University Brussels
 Brussels, Belgium
 24th March 2007
31. A 6-year follow-up prospective study of 289 patients with the Charité artificial disc prosthesis: clinical outcome and complications.
G.Lesage, R.Hes, B.Conix, K.Brabants, G.Dua
Belgian Society of Neurosurgery
 Leuven, Belgium
 17th March 2007
32. Microscopical lumbar interlaminar decompression versus laminectomy: a minimal invasive surgical technique in spinal canal stenosis.
G.Lesage, R.Hes, G.Michielsen, G.Dua
Belgian Society of Neurosurgery
 Leuven, Belgium
 17th March 2007
33. Recent developments and future in Neurosurgery.
 G.Dua, **G.Lesage**
Antwerp Surgical Days, 'Brains in Society'
 Antwerp, Belgium
 21-23rd September 2006
34. New treatment modalities in brain tumor surgery.
G.Lesage
 Antwerp Neuroradiology, Antwerp (regional)
 24th April 2006
35. Degenerative spondylolisthesis: treatment modalities.
G.Lesage, B.Conix, R.Hes, R.Klaes, G.Dua

- The Antwerp Spine Society, Antwerp (local)
20th January 2006
36. Degenerative spondylolisthesis: ‘to screw or not to screw’.
G.Lesage, B.Conix, R.Hes, R.Klaes, G.Dua
Belgian Society of Neurosurgery, Brussels (national)
25th November 2005
37. Management of neurotrauma.
G.Lesage, G.Dua
Staff surgery, Antwerp (local)
27th May 2005
38. Low backpain: symptomatology and diagnosis.
G.Lesage, B.Conix, K.Brabants
Back Symposium, Antwerp (regional)
14th October 2004
39. Deep brain stimulation in the therapy of Parkinson’s Disease.
G.Lesage, A.Flamez, J.D’Haens
Final year and thesis project, Brussels
13th June 2003
40. Preliminary results of the dynamic disc prosthesis (Prodisc®).
G.Alessi, **G.Lesage**, B.Noens, B.D’Haen, H.Colle, L.F.De Waele
Belgian Society of Neurosurgery, Mont-Godinne (national)
29th March 2003
41. Trigeminusneuralgia: literature study and follow-up of 300 patients.
G.Lesage, G.Alessi, H. Colle, L.F. De Waele
AZ St.-Lucas Hospital, Ghent (regional)
18th August 2002

B. Posterpresentations:

International:

E-Poster presentation:

42. Improvement in efficacy and stability with PCM-V cervical disc prosthesis compared to standard-PCM in cervical athroplasty: a 2-year follow-up study.
G.Lesage, R.Hes, G.Dua
15th International Meeting on Advanced Spine Techniques
Hong Kong, China
8th-11th July 2008
43. Single-stage anterior lumbar decompression and artificial disc replacement in 15 patients with concomitant chronic discogenic lower back pain and radicular leg pain."
G.Lesage, R.Hes, G.Dua

15th International Meeting on Advanced Spine Techniques
Hong Kong, China
8th-11th July 2008

44. Improvement in efficacy and stability with PCM-V cervical disc prosthesis compared to standard-PCM in cervical athroplasty: a 2-year follow-up study.

G.Lesage, R.Hes
Spineweek 2008
Geneva, Switzerland
26th-31st May 2008

45. Comparison of single-level versus multi-level Charité lumbar total disc replacement - 289 consecutive prosthesis in a prospective 6-year follow-up study.

G.Lesage, R.Hes, B.Conix, K.Brabants, G.Dua
Edinburgh, Scotland
42nd Annual SRS Meeting and Course
5th-8th September 2007

46. Microscopical lumbar interlaminar decompression versus laminectomy: a minimal invasive surgical technique in spinal canal stenosis.

G.Lesage, R.Hes, M.De Praeter, G.Michielsen, G.Dua
14th International Meeting on Advanced Spine Techniques
Paradise Island, Bahamas
11th-14th July 2007

Poster presentation:

47. Safety and efficacy of frameless stereotactic biopsy. A single-centre review of 535 cases.

G.Lesage, P. Depauw, GJ. Rutten, B.Burhani, C.De Nie, I.Verhagen, ST.Lie, S.Leenstra, J.Verheul, G.Beute
Marseille Neurosurgery 2009 - Congrès Annuel Commun EANS-SFNC
Marseille, France
27th-31st March 2009

48. Subdural metastasis of prostate adenocarcinoma mimicking subacute subdural haematoma or meningioma 'en placque' in 6 patients; case illustration and review of the literature.

G.Lesage, P. Depauw, GJ. Rutten, B.Burhani, C.De Nie, I.Verhagen, ST.Lie, S.Leenstra, J.Verheul, G.Beute
Marseille Neurosurgery 2009 - Congrès Annuel Commun EANS-SFNC
Marseille, France
27th-31st March 2009

49. Improvement in efficacy and stability with PCM-V cervical disc prosthesis compared to standard-PCM in cervical arthroplasty: a 2-year follow-up study.

G. Lesage, R. Hes
Marseille Neurosurgery 2009 - Congrès Annuel Commun EANS-SFNC
Marseille, France

27th-31st March 2009

50. Microscopical lumbar interlaminar decompression as a minimal invasive surgical technique in spinal canal stenosis: a randomized controlled trial.
G.Lesage, R.Hes, G.Dua
2nd International Levantine Forum "Advances in Neurological Surgery"
Antalya, Turkey
13th-16th November 2008
51. Comparison of single-level versus multi-level lumbar total disc replacement.
G.Lesage, R.Hes, B.Conix, K.Brabants, G.Dua
2nd International Levantine Forum "Advances in Neurological Surgery"
Antalya, Turkey
13th-16th November 2008
52. A 6-year follow-up prospective study of 289 patients with the Charité artificial disc prosthesis.
G.Lesage, R.Hes, B.Conix, K.Brabants, G.Dua
ISMA Congress: 3rd International Symposium on Microneurosurgical Anatomy
Kemer, Turkey
5th-8th November 2006
53. Comparison of single-level versus multi-level Charité lumbar total disc replacement – 289 consecutive prosthesis in a prospective 6-year follow-up study.
G.Lesage, R.Hes, B.Conix, K.Brabants, G.Dua
ISMA Congress: 3rd International Symposium on Microneurosurgical Anatomy
Kemer, Turkey
5th-8th November 2006

National:

Poster presentation:

54. Subdural metastasis of prostate adenocarcinoma mimicking subacute subdural haematoma: case illustrations in 5 patients.
Annual Scientific Meeting of the Belgian Society of Neurosurgery
G.Lesage, P.Depauw, GJ. Rutten, G.Beute
Liège, Belgium
21st March 2009
55. Improvement in efficacy and stability with PCM-V cervical disc prosthesis compared to standard-PCM in cervical arthroplasty: a 2-year follow-up study.
G. Lesage, R. Hes
Annual Scientific Meeting of the Belgian Society of Neurosurgery
Liège, Belgium
21st March 2009
56. Soft extraforaminal lumbar disc herniation: a comparison of 3 different surgical techniques.
G.Lesage, G.Dua, G.Beute, K.Van Rompaey, J.D'Haens

Annual Scientific Meeting of the Belgian Society of Neurosurgery
Liège, Belgium
21st March 2009

57. Safety and efficacy of frameless stereotactic biopsy. A single-centre review of 535 cases.
G.Lesage, P. Depauw, GJ. Rutten, B.Burhani, C.De Nie, I.Verhagen, ST.Lie, S.Leenstra, J.Verheul, G.Beute
Belgian Brain congress
Winner Poster Price 2008
Oostende, Belgium
24th-25th October 2008
58. Comparison of single-level versus multi-level Charité lumbar total disc replacement – 289 consecutive prosthesis in a prospective 6-year follow-up study.
G.Lesage, R.Hes, B.Conix, K.Brabants, G.Dua
Oostende, Belgium
September 2007
59. Swing Mandibula approach for C4 cervical corpectomy with Mesh titanium cage and osteosynthesis in a patient with Klippel-Feil syndrome and basilar impression: case report and surgical technique.
G.Lesage, R.Hes, G.Michielsen, M.De Praeter, E.Fossson, G.Dua
Belgian Society of Neurosurgery
Leuven, Belgium
17th March 2007

Other:

60. Juvenile mammary hypertrophia or virginal macromastia: a case report.
G.Lesage, M.Mertens
Antwerp Surgical Days, 'The Surgical Case', Antwerp (national)
16th September 2005
61. Postanoxic encephalopathy in the adult: a retrospective analysis of 20 patients.
G.Lesage, P.P.De Deyn
Antwerp Neuroradiology Meeting, Antwerp (regional)
10th May 2004
62. Radiological Brain Free Metastasis Survival: a case report.
G.Lesage, P.P.De Deyn
Staff Meeting of Internal Medicine, Antwerp (local)
16th April 2004
63. Transtec: 2 case reports of psychiatric disturbances.
G.Lesage, P.P.De Deyn

Staff internal medicine, Antwerp (local)
9th April 2004

2/ Lectures:

Neurosurgery in the Operating Theatre

G.Lesage

Anaesthesiology Assistants

Tilburg, The Netherlands

14th August

Paediatric Neurosurgery: trauma, dysraphism, hydrocephalus, neoplasms, craniostenosis.

G.Lesage, M.De Praeter, R.Hes

4th year school of nursing (paediatric specialisation), Antwerp

24th January 2006/ 21st January 2007

Cerebellar diseases and symptomatology.

G.Lesage, P.P.De Deyn

University of Antwerp, 3rd year students of Physiotherapy and Ergotherapy

21st May 2004

Lumbar and cervical disc herniation: causes, symptomatology, anatomy and treatment.

G.Lesage, J.D'Haens

Free University Hospital of Brussels, 6th year medical students

April 2003

Prion diseases: a new epidemic disease?

G.Lesage

Free University Hospital of Brussels, 3rd year medical students

April 1997

Lentiviruses in genetic therapy.

G.Lesage

Free University Hospital of Brussels, 3rd year medical students

April 1997.

3/ Publications:

Neurobehavioral alterations in an adolescent following posterior fossa tumor resection.
Baillieux H, De Smet HJ, Lesage G, Paquier P, De Deyn PP, Marien P.
Cerebellum. 2006;5(4):289-95.

Published abstracts in Surgical Neurology September 2007:

Swing Mandibula approach for C4 cervical corporectomy with Mesh titanium cage and osteosynthesis in a patient with Klippel-Feil syndrome and basilar impression: case report and surgical technique.
Lesage G, Hes R, Michielsen G, De Praeter M, Fossson E, Dua G

A 6-year follow-up prospective study of 289 patients with the Charité artificial disc prosthesis: clinical outcome and complications.
Lesage G, Hes R, Conix B, Brabants K, Dua G

Microscopical lumbar interlaminar decompression versus laminectomy: a minimal invasive surgical technique in spinal canal stenosis.
Lesage G, Hes R, Michielsen G, Dua G

Published abstract in Acta Neurologica Belgica October 2008:

Safety and efficacy of frameless stereotactic biopsy. A single-centre review of 535 cases.
G.Lesage, P. Depauw, GJ. Rutten, B.Burhani, C.De Nie, I.Verhagen, ST.Lie, S.Leenstra, J.Verheul, G.Beute

4/ Awards:

1. Winner Scientific Prize for Surgical Trainees, 2004-2005: Middelheim Hospital.
2. Laureate Best Presentation Surgical Case, Antwerp Surgical Days, 'The Surgical Case', Antwerp, 16th September 2005; Juvenile mammary hypertrophy or virginal macromastia: a case report.
3. Winner VVN-Eli Lilly Price 2006, 24th March 2007; The Middelheim Hospital Charité™ lumbar total disc replacement Clinical database report: a 6 year follow-up prospective study of 289 patients.
4. Laureate Whitecloud Award (USA), IMAST Congress, Bahamas, 11-14th July 2007; Comparison of Single-level Versus Multi-level Charité Lumbar Total Disc Replacement - 289 Consecutive Prosthesis in a Prospective 6-year Follow-up Study.
5. Laureate 7th NeuroScience Award, Siena, Italy, 6-10th May 2008; Lumbar total disc replacement, a clinical series of 350 patients with a minimum 2 years follow-up.
6. Winner Poster Price 2008 Belgian Brain Congress, Oostende, Belgium, 24-25th October 2008; Safety and efficacy of frameless stereotactic biopsy. A single-centre review of 535 cases.
7. Winner Pfizer Educational Grand 2008, Brussels, Belgium

5/ Consultancy:

Research & Development and teaching:

- Zimmer
- Cormed
- Intrinsic
- Medtronic
- Medacta

6/ Clinical trials:

GCP training: 8 February 2017

SI BONE - iMIA - iFuse Implant System® Minimally Invasive Arthrodesis - Protocol

Number: 300134

Function: Co-Investigator

startdate: 29-07-2014

Sponsor: SI-BONE, Inc

EVOLVE - Expandable Pedicle Screws versus Fenestrated Pedicle Screws Augmented with polymethylmethacrylate (PMMA): Complications and Clinical Outcomes in Patients with Osteoporosis or Poor Bone Quality

Function: Co-Investigator

startdate: 22-10-2012

Sponsor: Alphatec Spine, Inc

BARRICAID - A Prospective, Randomised, Multicenter Study to Demonstrate the Superiority of the Barricaid® to Discectomy for Primary Lumbar Disc Herniation - Protocol

Number: EUBARD-CP-001

Function: Co-Investigator

startdate: 30-03-2011

Sponsor: Intrinsic Therapeutics, Inc