

Curriculum Vitae
Imad Nahle, MD
Orthopaedic Surgeon
Pediatric and Spine & Scoliosis Specialist



Personal Information

Date of Birth: July 15th, 1983
Nationality: Lebanese

Contact Information

Mailing Address: Haret Hreik, Kassis Street, Nahle bldg., 3rd floor, Beirut, Lebanon
Cell: (961) 70 7777 45
E-mail: inahle@gmail.com

Areas of Expertise and Interest for Future Career

- Surgical management of the adult spine (degenerative, trauma, tumor and deformity)
- Surgical management of the pediatric spine (trauma, tumor, idiopathic scoliosis, neuromuscular scoliosis and congenital scoliosis)
- Thoracoscopic anterior tethering for idiopathic scoliosis (Minimally invasive fusionless technique with navigation)
- Medical and surgical management of the pediatric hip
- Management of the clubfoot (Ponseti technique)
- Management of pediatric and adult trauma
- Management of general orthopaedic conditions
- Interest in spine and pediatric orthopaedic research and academic teaching

Languages

- **English** Fluent in speaking, writing, and reading
- **French** Fluent in speaking, writing, and reading
- **Arabic** Fluent in speaking, writing, and reading

Current Job

Feb. 2020 – Present

Consultant in Pediatric Orthopaedic Surgery
Clemenceau Medical Center (Affiliated with Johns Hopkins International),
Beirut – Lebanon

Education

Nov. 2018 – Nov. 2019
(1-year program)

Clinical Fellow in Pediatric Orthopaedic Surgery

University of Montreal, Qc – Canada
Sainte-Justine University Hospital Center (Children’s Hospital)
Shriners Hospital, Montreal, Qc – Canada (Children’s Hospital)

Nov. 2016 – Nov. 2018
(2-year program)

Clinical Fellow in Spine and Scoliosis Surgery

University of Montreal, Qc - Canada

- **Pediatric Scoliosis Surgery, and General Pediatric Trauma Calls**
Sainte-Justine University Hospital Center
Children’s hospital – Trauma referral center– (1 year)
- **Adult Spine Trauma, Spine Deformities, Spine Tumors and Degenerative Spine**
Sacré-Cœur University Hospital Center – Montreal, Qc, Canada
Adult’s hospital – Trauma referral center – (1 year)

Nov. 2015 – Oct. 2016
(1-year program)

Clinical Fellow in Orthopaedic Trauma

(DFMS – Diplôme de Formation Médicale Spécialisée en Chirurgie Orthopédique et Traumatologique)
Centre Hospitalier Universitaire de la Pitié-Salpêtrière - Level 1 Trauma Center,
(Service du Pr Hugues Pascal-Mousselard) – Paris - France

June 2009 – June 2015
(6-year program)

Residency in Orthopaedic Surgery

American University of Beirut Medical Center – Beirut, Lebanon

August 2005 – June 2009
(4-year program)

Doctor of Medicine

American University of Beirut Medical Center – Beirut, Lebanon

Sept. 2001 – June 2004
(3-year program)

Bachelor of Science [Biology]

American University of Beirut– Beirut, Lebanon
Faculty of Arts and Sciences

June 2001

High School - Lycée Abd El Kader – Beirut, Lebanon

June 2001 -French Baccaalaureate / Sciences de la Vie et de la Terre

July 2001 -Lebanese Baccaalaureate / Life Sciences

Board Examinations

2015

United States Medical Licensing Examinations (USMLEs)

- USMLE STEP 2CK – Passed [2015]
- USMLE STEP 2CS – Passed [2014]
- USMLE STEP 1 – Passed [2013]
- ECFMG Certification – Issued in October 2015

July 2009

Lebanese Medical Board Examination (Colloquium) –Passed

Grants & Awards

- November 2018** **Pierre-H Labelle Prize** – Best Papers Award – 48th Annual Reunion of Quebec Scoliosis Society (SSQ 2018). [Bromont, Qc, Canada – 1-3 November 2018] Interobserver Agreement in Scoliosis Screening in a Multidisciplinary Clinic.
Nahle IS, Joncas J, Labelle H, Barchi S, Faucher E, Chemaly O, Poirier MP, Poliquin ME, Sarda M, Beauséjour M
- July 2018** **Best Papers Award** – The 11th Annual Meeting of the International Musculoskeletal Society (IMS 2018), Beirut – Lebanon
« The Impact of Surgical Reduction of High-Grade Lumbosacral Spondylolisthesis on Proximal Femoral Angle and Quality of Life »
Nahle IS, Labelle H, Parent S, Joncas J, Macthiong JM
- November 2016** **40,000 \$ CAD – Research Grant** - Bourse en Jumelage de Fonds du CHU Ste-Justine

Teaching Experience

- April-May 2019** **Instructor at the University of Montreal – Montreal, Quebec**
The MMD1234 musculoskeletal 28-hr-course for medical students,
Director of the course: Véronique Godbout, MD
drgodbout@gmail.com
- April-May 2018** **Instructor at the University of Montreal – Montreal, Quebec**
The MMD1234 musculoskeletal 28-hr-course for medical students,
Director of the course: Constantin Stanciu, MD
Constantin_Stanciu@SSSS.gouv.qc.ca
- May-June 2017** **Instructor at the University of Montreal – Montreal, Quebec**
The MMD1234 musculoskeletal 28-hr-course for medical students,
Director of the course: Constantin Stanciu, MD
Constantin_Stanciu@SSSS.gouv.qc.ca
- October 2006- 2014** **Instructor of sciences for high school students**

Publications

- Knez D, **Nahle IS**, Vrtovec T, Parent S, Kadoury S. Computer-assisted pedicle screw trajectory planning using CT-inferred bone density: a demonstration against surgical outcomes. Med Phys. 2019 May 14
- **Nahle IS**, Labelle H, Parent S, Joncas J, Macthiong JM. The Impact of Surgical Reduction of Lumbosacral High-Grade Spondylolisthesis on Proximal Femoral Angle and Quality of Life. Spine J. 2018 Oct 5. pii: S1529-9430(18)31157-4
- **Nahle IS**, Hammam MS, Masrouha KZ, et al. Back Pain: A Puzzle in Children. J

Paediatr Child Health. 2016 Aug;52(8):802-8

- Hamilton Bailey's Demonstration of Physical Signs in Clinical Surgery (2014). Lumley et al. (Eds.)
 - Chapter 6: Bones and Joints (author: **Nahle IS**)
 - Chapter 7: The Shoulder Girdle (author: **Nahle IS**)
- Al-Taki MM, **Nahle IS**, Al-Kutoubi A, et al. Posterior dislocation of a discoid meniscus in a child: a case report. J Pediatr Orthop B. 2014 Jan 8
- Jurjus AR, **Nahle IS**, and Oueidat D. Medico-legal medicine in Lebanon: A room for anatomy. The FASEB journal, 2005. 19(4): A780
- Jurjus AR, **Nahle IS**, and Oueidat D. History of forensic medicine: From anatomy to DNA fingerprinting. Journal of Clinical Laboratory 3(6): 5-20, 2005

Accepted work at the " IMAST 2020- Athens – Greece:

- Anterior Vertebral Body Growth Modulation for Idiopathic Scoliosis: Early, mid-term and late complications
Nahle I, Shen J, Roy-Beaudry M, Turgeon I, Joncas J, Parent S (Podium Presentation)
- Tether breakage in Anterior Vertebral Body Modulation: The Clinical Impact
Shen J, **Nahle I**, Roy-Beaudry M, Turgeon I, Joncas J, Parent S

Accepted paper at the 39th research day of the POES and the department of orthopaedic surgery at the University of Montreal. [Montreal, Qc, Canada – April 11th, 2019]

- The role of ultrasound in the management of clubfoot recurrence
Imad Nahle, Marie-Claude Miron, Guy Grimard, Peter Glavas
(Podium presentation)

Accepted papers at IEEE International Symposium on Biomedical Imaging (ISBI 2018, Washington DC- USA):

- Inter-Vertebral Disk Modeling from Pairs of Segmented Vertebral Models Using Trainable Pre-Processing Networks
Mahsa Shakeri, **Imad Nahle**, Eric Finley, Samuel Kadoury
- Computer-Assisted Pedicle Screw Placement Planning: Towards Clinical Practice Dejan Knez, **Imad Nahle**, Tomaz Vrtovec, Stefan Parent, Samuel Kadoury

Accepted paper in " Radiology – Artificial intelligence ", Nov 2019:

- Automatic Risser grade assessment using deep learning in Adolescent idiopathic scoliosis
Kaddioui H., Duong L., Joncas J., Bellefleur C., **Nahle I.**, Olivier, Nault M.L., Parent S., Grimard G., Labelle H.

Accepted abstract at the Canadian Orthopaedic Association (COA 2019, Montreal, Canada):

- Interobserver Agreement in Scoliosis Screening in a Multidisciplinary Clinic.
Nahle IS, Joncas J, Labelle H, Barchi S, Faucher E, Chemaly O, Poirier MP, Poliquin ME, Sarda M, Beauséjour M

Accepted abstracts at the International Society of Orthopedic Surgery and Traumatology (SICOT 2018, Montreal, Canada):

- The Impact of Surgical Reduction of High Grade Spondylolisthesis on Proximal Femoral Angle and Quality of Life.
Nahle IS, Labelle H, Parent S, Joncas J, Macthiong JM
- Interobserver Agreement in Scoliosis Screening in a Multidisciplinary Clinic.
Nahle IS, Joncas J, Labelle H, Barchi S, Faucher E, Chemaly O, Poirier MP, Poliquin ME, Sarda M, Beauséjour M
- Computer-assisted pedicle screw trajectory optimized with CT inferred bone mass density: a comparison to surgical outcomes
Imad Nahle, Dejan Knez, Tomaž Vrtovec , Stefan Parent, and Samuel Kadoury

Other Working Experience

March 2019- Oct 2019

Elective Moonlighting – Orthopaedic Surgery Ward
Shriners Hospitals , Montreal, Qc – Canada (Children’s Hospital)

July 2014- July 2015

Elective Moonlighting – Emergency Department
American University of Beirut Medical Center, Beirut, Lebanon

June-August 2005

Research Assistant
Washington University in Saint-Louis – Missouri, USA
School of Medicine, Department of internal medicine, Division of Geriatrics and Nutritional Science

- Cell culture, Polymerized Chain Reaction (PCR), electrophoresis, Western blot, mice dissection, serum and plasma extraction, dialysis, Immunoprecipitation by double labeling

Nada Abumrad, PhD, e-mail: nabumrad@im.wustl.edu

August 2004-June 2005 **Research Assistant**

American University of Beirut - Beirut, Lebanon Faculty of Medicine, Department of Human Morphology

- Rat and rabbit dissection, light microscopy (treatment, slide preparation, staining and analysis, immunostaining, mRNA extraction)

Abdo R Jurjus, PhD, e-mail: ajoo@aub.edu.lb

September 2004-June 2005

Research Assistant
American University of Beirut - Beirut, Lebanon

Faculty of Nutrition and Agriculture - Department of Nutrition and Food Sciences

- Preparation of study questionnaires, recruitment of subjects
- Data collection, exploration and statistical analysis using SPSS software

Sana Ghaddar, PhD

September 2004-June 2005

Volunteer

Saint-Jude Children Cancer Center –
American University of Beirut Medical Center - Beirut, Lebanon

Elective Training

July 2107
(1 week)

Elective rotation in Sports Medicine at
McGill Orthopaedic Department
St- Mary’s University Hospital – Montreal, Quebec, Canada
Moreno Morelli, MD, e-mail: mormcolc@hotmail.com

Sept. 2015 – Oct. 2015
(2 months)

Elective rotation in General Orthopaedic Surgery at
Hôpital Hôtel-Dieu de France - Beirut, Lebanon
Ismat Ghanem, e-mail: ismat.ghanem@gmail.com

April 1-14, 2015
(2 Weeks)

Elective Rotation in Spine Surgery (Pediatric and Adult) at
University of Montreal- Department of Orthopaedic Surgery, Montreal,
Quebec, Canada
Stefan Parent, MD, PhD, e-mail: stefan.parent@umontreal.ca

May 2013
(3 weeks)

Elective rotation in Pediatric Orthopaedic Surgery at
Shriners Hospital - Portland, Oregon, USA
Micheal Aiona, MD, e-mail: maiona@shrinenet.org

December 2012
(3 weeks)

Elective rotation in Spine Surgery at
University of Iowa Health Care (UIHC) - Iowa City, Iowa, USA
Department of Orthopaedics and Rehabilitation
Joseph D. Smucker, M.D. Tel: 319-353-6883 Fax: 319-353-6754

March 2009
(4 weeks)

Elective rotation in Orthopaedic Surgical Oncology at
McGill University Health Center, Montreal, Quebec, Canada
Robert Turcotte, MD, e-mail: robert.turcotte@muhc.mcgill.ca

February 2009
(4 weeks)

Elective rotation Arthroplasty at
McGill University Health Center, Montreal, Quebec, Canada
Micheal Tanzer, MD, e-mail: michael.tanzer@muhc.mcgill.ca **William Fisher,**
MD, e-mail: william.fisher@muhc.mcgill.ca

January 2009
(1 month)

Elective rotation in General Orthopaedic Surgery at the
American University of Beirut Medical Center, – Beirut, Lebanon

February 2008
(3 weeks)

Elective rotation in General Orthopaedic Surgery at the
American University of Beirut Medical Center, – Beirut, Lebanon

July- August 2006
(7 weeks)

Elective rotation in General Orthopaedic Surgery at
Universitätsklinikum Düsseldorf, Düsseldorf, Germany
Dr. R. Krauspe – Chief of the orthopaedic department

Conferences – Courses – Workshops – Presentations

- Ste-Justine Pediatric Orthopaedic Review Course (SPORC 2019) – Hands on cadaveric workshop for pelvic osteotomies [Shriners Hospitals, Montreal, Quebec, Canada, Feb 22-2, 2019]
- The Combined French Lebanese Pediatric Orthopaedic Conference. [USJ-CIS- Beirut, Lebanon - June 13-15, 2019]
- 48th annual reunion of the Quebec Scoliosis Society (SSQ 2018). [Bromont, Qc, Canada – 1-3 Nov 2018]
- The SICOT 2018 Orthopaedic World Congress, Montreal, Canada [10-13 Sept 2018]
 - The Impact of Surgical Reduction of High Grade Spondylolisthesis on Proximal Femoral Angle and Quality of Life.
Nahle IS, Labelle H, Parent S, Joncas J, Macthiong JM (Podium Presentation)
 - Interobserver Agreement in Scoliosis Screening in a Multidisciplinary Clinic.
Nahle IS, Joncas J, Labelle H, Barchi S, Faucher E, Chemaly O, Poirier MP, Poliquin ME, Sarda M, Beauséjour M
 - Computer-assisted pedicle screw trajectory optimized with CT inferred bone mass density: a comparison to surgical outcomes
Imad Nahle, Dejan Knez, Tomaž Vrtovec , Stefan Parent, and Samuel Kadoury
- North American Spine Society – NASS 33th Annual Meeting – Los Angeles Convention Center, California, USA [September 25-28, 2018]
- Invited lecturer at the American University of Beirut Medical Center (AUBMC) – division of orthopaedic surgery, Beirut, Lebanon [July 2018]
 - A new perspective in pediatric scoliosis: Thoracoscopic anterior tethering
- The 11th Annual International Musculoskeletal Society meeting. [Beirut, Lebanon – July 8-10, 2018]
 - Interobserver Agreement in Scoliosis Screening in a Multidisciplinary Clinic. **Nahle IS**, Joncas J, Labelle H, Barchi S, Faucher E, Chemaly O, Poirier MP, Poliquin ME, Sarda M, Beauséjour M. (Podium presentation)
 - The Impact of Surgical Reduction of High Grade Spondylolisthesis on Proximal Femoral Angle and Quality of Life.
Nahle IS, Labelle H, Parent S, Joncas J, Macthiong JM. (Podium presentation)
- Minimally Invasive Spine Surgery Course [Dallas, Texas, USA – May 19th, 2018]

Hands on cadavers : MIS pedicular fixation, MIS TLIF, pedicular instrumentation with Navigation, Lateral lumbar interbody fusion (XLIF, OLIF)

- 38th research day of the POES and the department of orthopaedic surgery at the University of Montreal. [Montreal, Qc, Canada – April 28th, 2018]
 - Interobserver Agreement in Scoliosis Screening in a Multidisciplinary Clinic. **Nahle IS**, Joncas J, Labelle H, Barchi S, Faucher E, Chemaly O, Poirier MP, Poliquin ME, Sarda M, Beauséjour M. (Podium presentation)
 - Computer-assisted pedicle screw trajectory optimized with CT inferred bone mass density: a comparison to surgical outcomes. **Imad Nahle**, Dejan Knez, Tomaž Vrtovec , Stefan Parent, and Samuel Kadoury. (Podium presentation)
 - The Impact of Surgical Reduction of High Grade Spondylolisthesis on Proximal Femoral Angle and Quality of Life. **Nahle IS**, Labelle H, Parent S, Joncas J, Macthiong JM. (Podium presentation)
- 46th scientific journey of the department of surgery at the University of Montreal [Montreal, Qc, Canada – 19,20 April 2018]
Interobserver Agreement in Scoliosis Screening in a Multidisciplinary Clinic. **Nahle IS**, Joncas J, Labelle H, Barchi S, Faucher E, Chemaly O, Poirier MP, Poliquin ME, Sarda M, Beauséjour M. (Podium presentation).
- 47th Annual Reunion for the Quebec Scoliosis Society (SSQ 2017). [Baie St-Paul, Charlevoix, Qc, Canada – 19-21 Oct 2017]
Computer-assisted pedicle screw planning from pre-operative CT: A quantitative comparison with post-operative 3D reconstructions
Imad S Nahle MD, Dejan Knez, Tomaž Vrtovec PhD, Stefan Parent MD, PhD, and Samuel Kadoury PhD. (Podium presentation).
- Studying congenital scoliosis on animal models. Performing fetal surgery on 8 animal models (sheeps). [CHU Sherbrooke, Quebec, Canada – 27 & 28 Sept 2017]
- 30th Ste-Justine Pediatric Orthopaedic Review Course (SPORC 2017) [Montreal, Quebec, Canada, March 8-10, 2017]
- Scoliosis Research Society, (SRS) 51st annual meeting and course [Prague Congress Center, Prague, Czech Republic, Sept 21-24, 2016]
- SFCR 2016 (Société Française de Chirurgie Rachidienne), [Centre des congrès, Lyon, France, 9-11 June 2016]
- Smith & Nephew Trauma Instructional Course Lecture [Madrid, Spain, 27-29 April 2016]
- 90^e SOFCOT (Société Française de Chirurgie Orthopédique et Traumatologique), [Palais des Congrès, Paris, France, 9-12 November 2015]
- Lebanese Orthopaedic Association Meeting [Beirut, Lebanon, September 2015]
- International Musculoskeletal Society (IMS), formerly S.P.I.N.E. [Beirut, Lebanon, July 22-25, 2015]
- AAOS 2015 Meeting - American Academy of Orthopaedic Surgeons- 24 au 28 March 2015 Las Vegas, Nevada, USA
- Lebanese Orthopaedic Association Meeting, Sept 2014, Beirut, Lebanon

- Society for Progress and Innovation for the Near East (S.P.I.N.E.) [Beirut, Lebanon, August 2013, 2014]. Hands-on workshops in foot and ankle, cervico-thoracic approaches and MIS of the spine
- AO Trauma Course—Advanced Principles of Fracture Management [Beit Meri, Lebanon, April 2014]
- Society for Progress and Innovation for the Near East (S.P.I.N.E.) [Beirut, Lebanon 2013]. Hands-on workshops in UKA/TKA, TSA/Reverse TSA, shoulder girdle muscle transfers
- AO Trauma Course—Basic Principles of Fracture Management [Beit Meri, Lebanon, 2012]
- Society for Progress and Innovation for the Near East (S.P.I.N.E.) [Beirut, Lebanon, June 2011]
- Middle East Medical Assembly, 44th meeting. May, 2011. American University of Beirut Medical Center, Beirut, Lebanon
- Middle East Medical Assembly, 43rd meeting. April, 2010. American University of Beirut Medical Center, Beirut, Lebanon
- Middle East Medical Assembly, 42nd meeting. May, 2007. American University of Beirut Medical Center, Beirut, Lebanon

Membership in Professional, Medical & Cultural Societies

2020-present	European Pediatric Orthopaedic Society (EPOS) – Active member
2013- 2014	President (elected out of 400 residents) – RSO Resident Staff Organization American University of Beirut Medical Center - Beirut, Lebanon
2013-2014	Member – RSQC - Resident Staff Quality Council American University of Beirut Medical Center - Beirut, Lebanon
August 2014- 2018	Member – NASS - North American Spine Society International Resident Member - AAOS American Academy of Orthopedic Surgeons International Resident Member – ACS American College of Surgeons
2012-2013	Member – RSO - Resident Staff Organization American University of Beirut Medical Center - Beirut, Lebanon
2010- Present	Member – Lebanese Order of Physicians Lebanese Medical Students' International Committee (LeMSIC) part of the International Federation of Medical Students' Associations (IFMSA)
2007- 2008	National Officer – Standing Committee on Medical Education (SCOME)
2005-2007	Member – Standing Committee on Medical Education (SCOME)
2005-2007	Member – Standing Committee on Professional Exchange (SCOPE)

Certificates

- BLS reCertified – American Heart Association BLS (Basic Life Support) course for Healthcare Providers – [March 2020]
- ATLS Certified (Instructor Potential) – American College of Surgeons (Advanced Trauma Life Support) course – [December 2014]
- ACLS Certified – American Heart Association ACLS (Advanced Cardiovascular Life Support) Course for Healthcare Providers – [December 2013]
- BLS Certified – American Heart Association BLS (Basic Life Support) course for Healthcare Providers – [December 2013]
- TEFAQ – Test d’Evaluation de Français, Québec – Level: Superior [Oct. 2011]
- Duke Infection Control Outreach Network Online Training Course for Central Venous Catheters [July 2011]
- First Aid Certification – Lebanese Red Cross, Beirut, Lebanon– [Dec. 2005]

Computer Literacy

Microsoft Office (PowerPoint, Excel, Access, Word)
EndNote, SPSS, Adobe (Professional), 3-D spine reconstruction using Idefx application, Vertebral segmentation using ITK-snap application

Other Interests

Hobbies: tennis, hiking, endurance running, ...

References

Available upon request