

Curriculum Vitae

Dr Martin Lavigne

**Department of Orthopaedic Surgery
Université de Montréal
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Section I : Identification

Name : Lavigne
First name : Martin
Office address : 5345 Boul. Assomption, suite RC55
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Citizenship : Canadian
Languages : Spoken/written: French and English

April 6 2006

Section II : Education, diplomas, fellowships, CME, honours

- **Education :**

- 2004 : Candidate, Master in Biomedical Sciences, Université de Montréal, Québec, Canada
- 1995 - 2000 : Residency in Orthopaedic Surgery, Programme d'Orthopédie Édouard-Samson, Université de Montréal,
- 1991 - 1995 : Medicine, Université de Sherbrooke, Québec
- 1989 - 1991 : Two years of Biochemistry, Université de Sherbrooke, Québec

- **Diplomas :**

- 2000 : Specialist in Orthopaedic Surgery, Université de Montréal, Québec
- 2000 : Fellow, Royal College of Surgeons of Canada
- 2000 : United States Medical Licensing Examination (USMLE)
- 1997 : Canadian Medical Council License (LMCC)
- 1995 : MD, Université de Sherbrooke, Québec, Canada

- **Fellowships :**

- 07/00- 06/01 : Fellowship in Lower Limb Reconstruction, University of California in San Diego, USA
- 07/01- 12/01 : Fellowship in Lower Limb Reconstruction, Inselspital, Bern, Switzerland

- **CME :**

- 2006 : 5th Symposium on joint preserving and minimally invasive surgery of the hip, Ottawa, June 9-11
 - 2006 : Annual meeting of the Canadian Orthopaedic Association, Toronto, June 2-4.
 - 2006 : Solutions in Primary acetabular THA, Zurich, April 28-29
 - 2006 ; Annual meeting of the American Academy of Orthopedic Surgeons, Chicago, Il, March 23-26
 - 2006 : Zimmer Complex Hip and Knee Forum, Lake Louise, AB March 12
 - 2006 : AO ASIF Symposium on Surgical Preservation of the Hip Mammoth Lakes, CA, Jan 10-13
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- 2005 : 7th EFORT meeting, Lisboa, Portugal, June 4-7
- 2005 : Hip joint disorders and treatment options in the young and active patient. Zurich, May 20-21
- 2005 : An update on hip resurfacing. Zurich, April 21-22
- 2005 : Zimmer MIS training Program, Vienna, March 15-18
- 2004: Minimally invasive surgery and hip resurfacing: An update. Zurich, Switzerland, Nov 24-25
- 2004 : Scientific Meeting of the Québec Orthopaedic Association, Montréal, Nov 20
- 2004 : Annual Meeting of the Québec Orthopaedic Association, Manoir Richelieu, Sept 23-25
- 2004 : New concepts in surgery of the hip. Bern, Switzerland, August 26-28
- 2004 : Annual Meeting of the Canadian Orthopaedic Association, Calgary, June 18-20
- 2004 : Third Symposium on Joint Preserving and Minimally Invasive Surgery of the Hip, Montréal, June 4-6
- 2004 : Minimally invasive surgery: Two-incision technique for THA, Vancouver, BC, Feb 24
- 2004 : Emerging trends: Whistler 2004 Orthopaedic symposium, Whistler, BC, Feb 25-28
- 2004 : Vail 18th Annual Orthopaedic Course, Vail, Jan 25-30.
- 2003 : Second International Conference on Metal-metal Hip Replacement, Montréal, June 19-21
- 2003 : Annual meeting of the American Academy of Orthopaedic Surgeons, New Orleans, USA, Feb 4-9
- 2003 : Bern Hip Symposium, Mammoth Lakes, CA, Jan 19-21
- 2002 : Maurice E.Müller hip course, Bern, Switzerland, October
- 2002 : Ste-Justine Pediatric Orthopedic Review Course, Montréal, May
- 2002 : New developments in total hip and knee arthroplasty, Pinehurst, North Carolina, April 14-17
- 2002 : Seventh Annual Symposium on Hip Dysplasia and Impingement, Bern, Switzerland, Jan 15-17

- **Honours :**

- 2005-07 : Scholarship Fonds de Recherche en Santé du Québec (FRSQ). *La conservation osseuse acétabulaire dans le resurfaçage de la hanche.*
- 2005-06 : Scholarship Institut de Recherche en Santé du Canada (IRSC), MENTOR program
- 2004 : Scholarship (MSc), Department of Surgery, Université de Montréal
- 2002 : Prix Marathon, Société Suisse de chirurgie orthopédique. Christopher Roeder "*Die Übereinstimmung zwischen dem Harris Hip Score und der subjektiven Patientenzufriedenheit nach totaler Hüftarthroplastik*" (Co-Auteurs: S. Eggli, M. Lavigne, U. Müller, A. Busato)
- 2001 : Best research work. Quebec Scoliosis Society. *Spinal cord injury during polymethyl methacrylate fixation of the lumbar spine.* André L. Desjardins, Martin Lavigne, Josée Doyon, Claude Emond.
- 2001 : Fellow, Maurice E. Muller Foundation of North-America
- 2000 : List of Honour, Dean of the Faculty of Medicine, Université de Montréal
- 2000 : AO Foundation Clinical Fellow
- 1991 : Canadian Biochemistry Association Scholarship
- 1987-1989 : Canadian Scholarship (Excellence in Sciences)
- 1987-1989 : Desjardins Foundation Scholarship (Excellence in Sciences)
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Section III : Current positions, memberships

A- Positions:

- 2002-06 : Assistant Professor of Orthopaedic Surgery, Université de Montréal
- 2002-06 : Attending orthopaedic surgeon, Hôpital Maisonneuve-Rosemont, Montréal, Québec, Canada
- 2002-06 : Co-Director, Arthroplasty Research Unit, Hôpital Maisonneuve-Rosemont
- 2004-06 : President of the Academic Committee, Orthopaedic Residency Program, Université de Montréal

B- Memberships :

- 2002-05 : Québec Orthopaedic Association
 - 2002-05 : Canadian Orthopaedic Association
 - 1997-05 : American Academy of Orthopedic Surgeons
 - 1997-05 : Royal College of Surgeons of Canada
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Section IV : Research activities, publications

A-Research projects and Grants :

1) Grants obtained from peer-reviewed organizations :

- 2006 : Lettre d'intention **Instituts de Recherche en Santé du Canada (IRSC)** pour le projet *Influence of biomechanical hip offsets on gait and posture parameters and quality of life after total hip arthroplasty*. **Co-applicant.**
- 2006 : Lettre d'intention **Instituts de Recherche en Santé du Canada (IRSC)** pour le projet *Recovery after hip arthroplasty : effects of physical exercise on gait pattern and early return to daily living activities*. **Co-applicant.**
- 2006 : Demande de subvention au **CRSNG-programme R&D Coop (\$134,434)**. *Biomechanical evaluation of metal-on-metal surface replacement arthroplasty of the hip*.
N Nuno, M Lavigne, PA Vendittoli, J DeGuise.
Co-principal investigator..
- 2005 : Demande de subvention aux **Instituts de Recherche en Santé du Canada (IRSC) (\$993,450)**. *DVT prophylaxis in total hip and knee arthroplasty (EPCAT study)*.
Co-applicant.
- 2005 : **Fonds de recherche en éducation et en orthopédie de Montréal (\$3,000)**. *Comparaison of two knee incisions in TKA*
M LeBreton, PA Vendittoli, M Fallaha et M Lavigne.
Collaborator.
- 2004 : **Fonds de recherche en éducation et en orthopédie de Montréal (\$2,500)**. *Clinical results after revision arthroplasty with PFMR stem*
D Rouleau, PA Vendittoli, M Lavigne, A Roy.
Collaborator.
- 2003 : **Fonds de recherche en éducation et en orthopédie de Montréal (\$5,000)**. *Randomized study comparing local anaesthetics in TKA*.
P Makinen, PA Vendittoli, M Lavigne, M Fallaha.
Collaborator.
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- 2003 : **Canadian Orthopaedic Foundation (\$10,000).** *Randomized study comparing local anaesthetic in TKA*
PA Vendittoli, P Makinen, M Lavigne, M Fallaha.
Collaborator.
- 2003 : **Fonds de recherche en éducation et en orthopédie de Montréal (5,000).** *Comparaison of two methods of acetabular component positioning in THA*
PA Vendittoli, M Lavigne, N Duval, P Lavoie.
Collaborator.
- 1998 : **Fonds de recherche en éducation et en orthopédie de Montréal (\$10,000).** *Detection and prevention of thermal spinal cord injury during laminectomy and PMMA cement fusion in a pig model.*
M Lavigne, AL Desjardins, C Fournier, J Doyon.
Principal investigator.
- 1991 : **Canadian Biochemistry Association (\$2,000).** *Research on the enzyme ALDOLASE.* Department of Biochemistry University of Alberta, Edmonton
Principal investigator.

2) Grants obtained from independent organizations :

- 2005 : **(Smith-Nephew, \$129,051).** *RCT comparing two tibial bases in unicompartmental total knee arthroplasty.*
PA Vendittoli, M Fallaha, N Duval and M Lavigne.
Collaborator.
- 2005 : **(Zimmer, \$75,000).** *Finite element analysis of stresses around the femoral component of SRA.*
N Nuño M Lavigne, PA Vendittoli, R Wienzenrieth.
Co-principal investigator.
- 2005 : **(Zimmer, \$75,000).** *Finite element analysis of acetabular stress shielding after THA and SRA.*
N Nuño, M Lavigne, PA Vendittoli R Wienzenrieth.
Co-principal investigator.
- 2005 : **(Zimmer, \$10,000).** *Acetabular bone resection after SRA*
M Lavigne, PA Vendittoli, R Winzenrieth, D Plamondon, N Nuño.
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Principal investigator.

2005 : **(Zimmer, \$22,000).** *Biomechanical reconstruction of the hip joint in SRA and THA.*

M Lavigne, PA Vendittoli.

Principal investigator.

2004 : **(Zimmer, \$191,541).** *Randomized gait and clinical evaluation of three different types of hip replacement.*

M Lavigne, PA Vendittoli, A Roy, F Prince.

Principal investigator.

2004 : **(Zimmer, \$51,350).** *Range of motion in hip arthroplasty: comparison of different implant designs.*

PA Vendittoli, M Lavigne, A Roy.

Co-principal investigator.

2004 : **(Zimmer, \$61,519).** *Randomized study comparing mini-medial to antero-latéral cutaneous skin incision in knee arthroplasty.*

PA Vendittoli, M Fallaha, M Lavigne.

Collaborator.

2004 : **(Zimmer, \$189,826).** *Randomized clinical evaluation of supraacetabular bone mineral density changes in total hip arthroplasty and resurfacing.*

M Lavigne, PA Vendittoli, A Roy.

Principal investigator.

2004 : **(Zimmer, \$119,020).** *Randomized clinical evaluation of bone mineral density changes using two tibial base plate designs in primary total knee arthroplasty.*

E Belzile, PA Vendittoli, M Malo, M Fallaha, M Lavigne. **Collaborator.**

2003 : **(Zimmer, \$170,625).** *Randomized clinical trial comparing metal on metal total hip arthroplasty and metal on metal total hip resurfacing in patients 65 years old and younger.*

PA Vendittoli, M Lavigne, A Roy.

Co-principal investigator.

2003 : **(Zimmer, \$51,090).** *Gait analysis after THA and SRA*

PA Vendittoli, M Lavigne, F Prince, V Villaggi, A Roy.

Co-principal investigator.

2003 : **(Zimmer, \$40,365).** *Whole-blood ion concentration after SRA and THA*
PA Vendittoli, M Lavigne, A Roy.
Co-principal investigator.

3) Research project conducted without grant :

2002 : *Relative Femoral Neck Lengthening : a new technique to treat complex deformities of the proximal femur.*
M. Lavigne, E. Chosa, J. Parvizi, M. Leunig and R. Ganz.
Principal investigator

2002 : *Distribution of vascular foramina at the femoral head and neck junction: surgical implication.*
M.Lavigne, M. Khalor, M. Beck, M. Leunig and R. Ganz.
Principal investigator

2002 : *Leg Length Inequality after Total Hip Arthroplasty: Influence on patient satisfaction.*
C. Roeder, S. Eggli, M. Lavigne, U. Müller, A. Busato.
Collaborator.

2002 : *Relation between Harris hip score and patient evaluation of outcome after THA.*
M. Lavigne, C. Roeder, S. Eggli, and A. Busato.
Principal investigator

2002 : *Can the Impingement and Apprehension Tests predict labrum lesions in patients with Acetabular Dysplasia?*
M. Lavigne, AA. Sanchez, RF. Santore.
Principal investigator

2001 : *Treatment of Recurrent Posterior Dislocation after Total Hip Arthroplasty Using an Achilles Tendon Allograft.*
M. Lavigne, AA. Sanchez, RD. Coutts.
Principal investigator

2001 : *Evaluation of new acrylic bone cement used in orthopedic surgery.*
R Healy, M. Lavigne, AA. Sanchez, RD. Coutts.
Collaborator.

1997 : *Biocompatibility of Nickel-Titane (Niti) shape memory alloy in bone,*

soft tissue and cell culture.

S. Rhalmy, M. Lavigne, P.Tétreault, C.H. Rivard.

Collaborator.

1997 : *Tibial osteotomy fixation with Nickel-Titane (Niti) shape memory alloy staples in a rabbit model.*

M. Lavigne, S. Rhalmy, P.Tétreault, C.H. Rivard.

Principal investigator

B-Publications :

1) Book chapters :

2005 : *Management of hip problems in skeletal dysplasia.* **M Lavigne** and P Vendittoli. To be published in : *Skeletal Dysplasias*, Fassier F, Hamdy R, eds. Marcel Dekker, New-York.

2) Peer- reviewed publications :

2006 : *Traitement de l'accrochage fémoro-acétabulaire par luxation chirurgicale de la hanche : note technique.*
Girard Julien, **Lavigne Martin**, Leunig Michael, Ganz Reinhold.
Revue de Chirurgie Orthopédique (Accepted)

2006 : *Early clinical results of a randomized clinical trial comparing total hip resurfacing and total hip arthroplasty.*
Vendittoli PA, **Lavigne M**, Roy A.
Hip International (Accepted)

2006 : *Resurfacing arthroplasty of the hip in osteopetrosis.* J Girard, PA Vendittoli, **M Lavigne** and AG Roy.
Journal of Bone and Joint Surgery Br (In press)

2006 : *Prospective randomized clinical study comparing metal on polyethylene versus ceramic on ceramic bearing in THA.*
P Vendittoli, **M Lavigne**, G Girard, P Lavoie, N Duval.
Journal of Bone and Joint Surgery Br (Accepted)

2006 : *Biomechanical reconstruction of the hip. A randomized study comparing total hip resurfacing and total hip arthroplasty.*
J.Girard, **M. Lavigne**, PA. Vendittoli, AG Roy.
Journal of Bone and Joint Surgery Br (In press)

- 2006 : *Acetabular bone preservation in hip resurfacing.*
P Vendittoli, **M Lavigne**, J Girard, A. Roy.
Journal of Bone and Joint Surgery Br (Accepted)
- 2006 : *A multimodal analgesia protocol for total knee arthroplasty. A randomized controlled study.*
Pascal-André Vendittoli, Patrice Makinen, Pierre Drolet, **Martin Lavigne**, Michel Fallaha, Marie-Claude Guertin and France Varin.
J Bone Joint Surg Am. 88:282-289
- 2005 : *Distribution of vascular foramina around the femoral head and neck junction: Relevance for conservative intracapsular procedures of the hip.*
M. Lavigne, M. Khalor, M. Beck, R. Ganz and M. Leunig.
Orthop Clin North Am. 2005; 36;2:171-6
- 2005 : *The differential expression of OPG/RANKL in human osteoarthritic subchondral bone osteoblasts is an indicator of the metabolic state of these disease cells.*
Martel-Pelletier J, Lajeunesse D, Mineau F, Fahmi H, **Lavigne M**, Pelletier J-P.
Arthritis Res. Ther. 2005 (sous presse)
- 2005 : *The regulation of human MMP-13 by licofelone, an inhibitor of cyclooxygenase and 5-lipoxygenase, in human osteoarthritic chondrocytes is mediated by the inhibition of the p38 MAP kinase signaling pathway.*
Boileau C, Pelletier JP, Tardif G, Fahmi H, Laufer S, **Lavigne M**, Martel-Pelletier J.
Ann. Rheum. Dis. 64: 891-898
- 2004 : Anterior femoro-acetabular impingement. Part 1. Techniques of joint preserving surgery.
M Lavigne, M Leunig, M Beck, J Parvizi and R Ganz.
Clin Orthop 2004: 418:60-67
- 2004 : *Regulation of the expression of 5-lipoxygenase-activating protein/5-lipoxygenase and the synthesis of leukotriene B4 in osteoarthritic chondrocytes. Role of the transforming growth factor B and eicosanoids.*
Martel-Pelletier J, Mineau F, Fahmi H, Laufer S, Reboul P, Boileau C, **Lavigne M**, Pelletier JP.
Arthritis Rheum. 2004; 50: 3925-3933
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2004 : *Activation of peroxisome proliferators-activated receptor Y inhibits interleukin-1B-induced mPGES-1 expression in human synovial fibroblasts by interfering with Egr-1.*
Cheng S, Afif H, Martel-Pelletier J, Pelletier JP, Li X, Farrajota K,
Lavigne M, Fahmi H.
J Biol Chem 2004; 279:22057-22065

2001 : *Treatment of Recurrent Posterior Dislocation after Total Hip Arthroplasty Using an Achilles Tendon Allograft.*
M Lavigne, AA. Sanchez and RD Coutts.
J Arthropl 2001 Suppl 1;16 (8) :13-18

3) Abstracts :

2006 : *Metal ion release following metal-on-metal 28 mm total hip arthroplasty versus surface replacement arthroplasty. A randomized study.*
PA Vendittoli, **M Lavigne**, S Motard, A Roy.
Proceedings of the 73rd Annual meeting of the American Academy of orthopedic surgeons, p. 504

2005 : *Hip revision: Predictors of success.*
D Rouleau, A Roy, PA Vendittoli, **M Lavigne** and B Benoît.
J Can Chir 2005 suppl; 48;19

2005 : *Randomized study comparing whole blood metal ions after metal-metal 28mm THA or total hip resurfacing.*
P Vendittoli, **M Lavigne**, S Mottard and A Roy.
J Can Chir 2005 suppl; 48;18

2005 : *Randomized study comparing early results after total hip resurfacing and total hip arthroplasty.*
P Vendittoli, **M Lavigne** and A Roy.
J Can Chir 2005 suppl; 48;17

2005 : *Hop and step test : new functional tests for THA evaluation.*
PA Vendittoli, V Godbout, **M Lavigne** and N Duval.
J Can Chir 2005 suppl; 48;12

2005 : *Femoral and acetabular bone preservation with surface arthroplasty of the hip.*
PA Vendittoli, **M Lavigne** and A Roy.

J Can Chir 2005 suppl; 48;22

2005 : *Randomized study comparing biomechanical reconstruction after total hip resurfacing and total hip arthroplasty.*

M Lavigne, PA Vendittoli, A Abaub and A Roy.

J Can Chir 2005 suppl; 48;22

2005 : *Vertical acetabular positioning with the aid of an inclinometer in total hip arthroplasty.*

PA Vendittoli, **M Lavigne**, A Roy and N Duval.

J Can Chir 2005 suppl; 48;23

2005 : *Randomized study comparing alumina-alumina to metal-on-polyethylene bearing surfaces in total hip arthroplasty: 3 to 8 years follow-up.*

PA Vendittoli, **M Lavigne**, P Lavoie and N Duval.

J Can Chir 2005 suppl; 48;23

2005 : *Early results of a randomized controlled trial of hip resurfacing and total hip arthroplasty.*

M Lavigne, PA Vendittoli.

OSTEOLOGIE - OSTEOLOGY - Interdisciplinary journal for bone and joint studies, Verlag Hans Huber, Bern.

14 (suppl 2) sept 2005, p 80-83

2005 : *Component positioning in hip resurfacing.*

M Lavigne

OSTEOLOGIE - OSTEOLOGY - Interdisciplinary journal for bone and joint studies, Verlag Hans Huber, Bern.

14 (suppl 2) sept 2005, p 63-64

2004 : *Regulation of the expression of FLAP/5-LOX and synthesis of LTB₄ in osteoarthritic chondrocytes: role of TGF- β and eicosanoids.*

Martel-Pelletier J, Mineau F, Fahmi H, Laufer S, Reboul P, Boileau C, Lavigne M, Pelletier J-P.

Arthritis Rheum. 50: S286

2004 : *15-Deoxy- $\Delta^{12,14}$ -prostaglandin J₂ inhibits IL-1 α induced cyclooxygenase-2 expression in human synovial fibroblasts through a histone deacetylase-independent mechanism.*

Farrajota K, Afif H, Martel-Pelletier J, Pelletier J-P, Li X, Cheng S,
Lavigne M, Fahmi H.
Arthritis Res. Ther. 6: S27

2004 : *Radiological signs of the impinging hip.*

P Vendittoli, **M Lavigne**.

Proceedings of the 23rd International Congress of the International
Society of Radiology. (Medimond International proceedings) 2005;
651-656

2002 : *The value of Gelfoam and water irrigation as insulating material during
PMMA polymerization for fixation of the spine.*

AL. Desjardins, **M Lavigne**.

J Can Chir 2002 Suppl;45:8

Section V : Presentations

- Invited speaker :

- 2006 : *THR or hip resurfacing: A randomized trial.*
5th Symposium on joint preserving and minimally invasive surgery of the hip. Ottawa, June 9-11
- 2006 : *The Benefits of Metal-on-metal hip.*
Zimmer Complex Hip and Knee Forum. Lake Louise, AB, March 12
- 2006 : *Revision of a ceramic on ceramic THA.*
Zimmer Complex Hip and Knee Forum. Lake Louise, AB, March 12
- 2006 : *The impaired ROM due to impingement. Solutions in Primary acetabular THA.* Zurich, April 28-29
- 2006 : *Acetabular bone conservation during implantation of an uncemented component. Solutions in Primary acetabular THA.* Zurich, April 28-29
- 2006 : *Vascular foramina at the head neck junction and its relevance for surgical procedures of the femoral neck.* AO ASIF Symposium on Surgical Preservation of the Hip. Mammoth Lakes, CA, Jan 10-13
- 2005 : *Sizing of the components in hip resurfacing.*
DUROM side event at the EFORT meeting. Lisbon, Portugal, June 5
- 2005 : *Early results of a RCT comparing conventional and resurfacing total hip arthroplasty. An update on hip resurfacing.* Zurich, April 21-22
- 2005 : *Sizing of the components in hip resurfacing. An update on hip resurfacing.* Zurich, April 21-22
- 2005 : *The pistol grip deformity : resurfacing, the obvious option.* Meeting on Hip joint disorders and treatment options in the young and active patient. Zurich, May 20-21
- 2005 : *Accrochage de la hanche : précurseur d'arthrose.* Conférence scientifique du Service de rhumatologie du CHUM. Hôpital Notre-Dame, Montréal, 21 janvier
- 2004 : *Biomechanical reconstruction of the hip in resurfacing and THA.*
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- Minimally invasive surgery and hip resurfacing meeting. Zurich, Switzerland, Nov 26
- 2004 : *Resurfaçage de la hanche*. Journée scientifique de l'Association d'Ortopédie du Québec : Nouveautés en chirurgie de la hanche. Montréal, 20 novembre
- 2004 : *Accrochage de la hanche*. Journée scientifique de l'Association d'Ortopédie du Québec : Nouveautés en chirurgie de la hanche. Montréal, 20 novembre
- 2004 : *Accrochage de la hanche*. Congrès de Médecine Sportive de physiatry. Montréal, 24 octobre
- 2004 : *Sélection des patients pour le resurfaçage de la hanche*. Congrès annuel de l'Association d'Ortopédie du Québec. Manoir Richelieu, 24 septembre
- 2004 : *Durom: patient selection and expectations*. DUROM side Event at the Canadian Orthopedic Association. Calgary, June 18
- 2004 : *Durom: patient selection and expectations*. Emerging trends: Whistler 2004 Orthopaedic symposium. Whistler, BC, Feb 25
- 2004 : *Durom: patient selection and expectations*. Vail 18th Annual Orthopaedic Course, Vail, Colorado, Jan 25
- 2004 : *CLS stem design rationale*. Zimmer Canadian sales meeting. Phoenix, Arizona, Jan 9
- 2004 : *Durom THR implant*. Zimmer Canadian sales meeting. Phoenix, Arizona, Jan 9
- 2004 : *Science behind MoM bearing*. Zimmer Canadian sales meeting. Phoenix, Arizona, Jan 9
- 2004 : *Hip resurfacing surgical technique*. Zimmer Canadian sales meeting. Phoenix, Arizona, Jan 9
- 2003 : *Accrochage de la hanche*. Département de Physiatry de l'Hôpital Notre-Dame. Montréal, 27 avril
- 2003 : *Relative femoral neck lengthening for the treatment of residual deformities after LCP*. AO/ASIF Bern Hip Symposium. Mammoth
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Lakes, California, Jan 22

2003 : *The location of the vascular foramina at the head-neck junction.*
AO/ASIF Bern Hip Symposium. Mammoth Lakes, California, Jan 22

2002 : *Relative femoral neck lengthening for the treatment of residual deformities after LCP.* Seventh Annual Symposium on hip dysplasia and impingement. Bern, Switzerland, Jan 17

- Scientific meetings / oral presentations :

2005 : *Arthroplastie de la hanche : une étude randomisée comparant la prothèse totale de hanche et la prothèse de resurfaçage.*
F Prince, PA Vendittoli, M Lavigne, A Roy, J Nantel et V Villaggi.
11ième Congrès International de l'Association des chercheurs en activités physiques et sportives. Paris, 26 - 28 octobre

2005 : *Hip revision: Predictors of success.*
D Rouleau, A Roy, PA Vendittoli, M Lavigne and B Benoît. 25th Research day of the POES, Montréal, May 6.

2005 : *Randomized study comparing whole blood metal ions after metal-metal 28mm THA or total hip resurfacing.* P Vendittoli, M Lavigne, **S Mottard** and A Roy. 25th Research day of the POES. Montréal, May 6

2005 : *Randomized study comparing early results after total hip resurfacing and total hip arthroplasty.*
P Vendittoli, M Lavigne and A Roy. 25th Research day of the POES. Montréal, May 6

2005 : *Hop and step test : new functional tests for THA evaluation.*
PA Vendittoli, **V Godbout**, M Lavigne and N Duval. 25th Research day of the POES. Montréal, May 6

2005 : *Randomized study comparing blood chrome-cobalt ions in metal-on-metal total hip arthroplasty and hip resurfacing.*
S Mottard, P Vendittoli, M Lavigne, A Roy. Annual Meeting of the Canadian Orthopaedic Association. Montréal, June 3-5

2005 : *Performance of modular tapered fluted titanium stem for femoral revision.*
A Roy, D Rouleau, M Lavigne, PA Vendittoli. 7th EFORT meeting. Lisboa, Portugal, June 4-7

- 2005 : *Randomised study comparing blood chrome-cobalt ions in metal-on-metal 28 mm total hip arthroplasty and metal-on-metal total hip.*
S Mottard, PA Vendittoli, M Lavigne, A Roy. 7th EFORT meeting. Lisboa, Portugal, June 4-7
- 2005 : *Randomised study of gait analysis after total hip resurfacing and total hip arthroplasty.*
F Prince, PA Vendittoli, M Lavigne, A Roy, J Côté. 7th EFORT meeting. Lisboa, Portugal, June 4-7
- 2005 : *Randomised study comparing early clinical results after total hip resurfacing and total hip arthroplasty.*
M Lavigne, PA Vendittoli, A Roy. 7th EFORT meeting. Lisboa, Portugal, June 4-7
- 2005 : *Randomised trial comparing alumina-alumina to metal-polyethylene bearing surfaces in total hip arthroplasty.*
PA Vendittoli, N Duval, P Lavoie et M Lavigne. 3rd International Symposium on Advanced Biomaterials. Montréal, April 3-6
- 2005 : *Local anaesthetics in total knee arthroplasty: randomized study evaluating their benefits and safety.*
PA Vendittoli, P Makinen, M Lavigne, M Falaha, P Drolet. 72nd Annual Meeting of the American Academy of Orthopaedic Surgeons. Washington, DC, February 23-27
- 2004 : *Resurfacing: Indications and Canadian Experience.*
EL Belzile, PA Vendittoli, M Lavigne. 18th Annual David Grice Lecture & Orthopaedic Alumni Symposium. Boston, MA, Nov 10-13
- 2004 : *Évaluation de la précision de la planification préopératoire en vue d'une prothèse totale de la hanche.*
D Garneau, E Belzile, F.Morin, P Vendittoli, M Lavigne, A. Roy. Association d'Orthopédie du Québec. Manoir Richelieu, 24 septembre
- 2004 : *Randomised Study Evaluating the Benefits and Safety of Local Anaesthetics In Total Knee Arthroplasty.*
PA Vendittoli, **P Makinen**, M Lavigne, M Fallaha, P Drolet. Journée de la recherche du POES.
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- 2004 : *Randomised Study Evaluating the Benefits and Safety of Local Anaesthetics In Total Knee Arthroplasty.*
PA Vendittoli, P Makinen, M Lavigne, M Fallaha, P Drolet. 11th Meeting of the Combined Orthopaedic Associations. Sydney, Australia, October 24-29
- 2004 : *Preliminary results of a RCT comparing conventional and resurfacing total hip arthroplasty.*
M Lavigne, P A Vendittoli. A Roy. Third Symposium on Joint Preserving and Minimally Invasive Surgery of the Hip. Montréal, 4-6 Juin
- 2002 : *Association between the Harris Hip Score and the patient satisfaction after total hip arthroplasty.*
C Röder, M Lavigne, S Egli, U Müller, A Busato. Maurice E. Müller Hip Course. Berne, Suisse, 11 octobre
- 2002 : *The value of Gelfoam and water irrigation as insulating material during PMMA polymerization for fixation of the spine.*
AL Desjardins, M Lavigne. Société canadienne du rachis, Vernon, BC, 21 mars
- 2002 : *The impact of postoperative leg length inequality on clinical outcome in total hip arthroplasty.*
C Roeder, S Egli, M Lavigne, U Muller, A Busato. Union des sociétés chirurgicales suisses. Lausanne, 19-22 juin
- 2002 : *The impact of postoperative leg length inequality on clinical outcome in total hip arthroplasty.*
C Roeder, S Egli, M Lavigne, A Busato. SICOT. San Diego, 23 août
- 2002 : *The value of Gelfoam and water irrigation as an insulant during polymethyl methacrylate polymerisation.*
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- 2001 : *Spinal cord injury during polymethyl methacrylate fixation of the lumbar spine.*
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- 1999 : *Detection and prevention of a thermal spinal cord injury during a*
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laminectomy and PMMA cement fusion in a pig model.

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- Scientific meeting / poster presentations :

2006 : *Hop and step tests: two new functional tests for evaluation of THA.* PA Vendittoli, **V Godbout**, M Lavigne, A Roy. Journée de la recherche du Département de Chirurgie de l'Université de Montréal. 28 avril

2006 : *Metal ion release following metal-on-metal 28mm total hip arthroplasty versus surface replacement arthroplasty. A randomized study.*
PA Vendittoli, **M Lavigne**, S Motard, A Roy. 73rd Annual meeting of the American Academy of orthopaedic surgeons. Chicago, IL, Mar 22

2005 : *Femoral and acetabular bone preservation with surface arthroplasty of the hip.*
PA Vendittoli, **M Lavigne** and A Roy. 25th Research day of the POES. Montréal, May 6

2005 : *Randomized study comparing the biomechanical reconstruction after total hip resurfacing and total hip arthroplasty.*
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2005 : *Vertical acetabular positioning with the aid of an inclinometer in total hip arthroplasty.*
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2005 : *Randomized study comparing alumina-alumina to metal-on-polyethylene bearing surfaces in total hip arthroplasty: 3 to 8 years follow-up.*

- PA Vendittoli, **M Lavigne**, P Lavoie and N Duval. 25th Research day of the POES. Montréal, May 6
- 2005 : *Randomised study evaluating the benefits of local anesthetics in total knee arthroplasty.*
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- 2005 : *Prospective Randomised Trial Comparing Alumina-Alumina to Metal-Polyethylene Bearing Surfaces in Hybrid Total Hip Arthroplasty.*
P Vendittoli, N Duval, P Lavoie, **M Lavigne**. 7th EFORT meeting. Lisbon, Portugal, June 4-7
- 2005 : *Radiographic analysis of hip biomechanics after total hip resurfacing and total hip.*
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- 2005 : *Radiographic analysis of hip biomechanics after total hip resurfacing and total hip arthroplasty.*
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- 2004 : *Étude randomisée comparant l'efficacité des analgésiques locaux après prothèse totale du genou.*
PA Vendittoli, P Makinen, **M Lavigne**, M Fallaha, P Drolet. 4^{ième} Journée de la douleur de Montréal. 1-2 octobre
- 2004 : *Randomized study evaluating the benefits of local anesthetics in total knee arthroplasty*
PA Vendittoli, P Makinen, **M Lavigne**, M Fallaha. 11e journée de la recherche de l'Hôpital Maisonneuve-Rosemont. Montréal, Juin
- 2004: *Local anaesthetics in total knee arthroplasty: randomized study evaluating their benefits and safety.*
PA Vendittoli, P Makinen, **M Lavigne**, M Fallaha, P Drolet. Canadian Orthopaedic Association. Calgary, June 18-20
- 2004 : *Radiological signs of the impinging hip.*
PA Vendittoli, **M Lavigne**. 23rd International Congress of the International Society of Radiology. Montréal, June 24-26
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- 2002 : *The value of Gelfoam and water irrigation as insulating material during PMMA polymerization for fixation of the spine.*
M Lavigne, AL Desjardins. Association Canadienne d'Orthopédie. Victoria, 1-4 juin
- 2002 : *The Performance of New Methacrylate Cements.*
R Healy, **M Lavigne**, A Sanchez. Association Canadienne d'Orthopédie. Victoria, 1-4 juin
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