

CURRICULUM VITAE

Name, First name : **THEUMANN, Nicolas**

Date and place of birth : May 10th, 1969, Como (Italia)

Citizenship : French, Swiss

Origin : Vaud

Status : Married

Professional address : Department of Radiology
and Interventional Radiology
Clinique Bois Cerf, avenue d'Ouchy 31
CH 1006 Lausanne
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E-mail : Nicolas.Theumann@hirslanden.ch

Actual status : **Associated Professor**
Department of Radiology
and Interventional Radiology



EDUCATION

1979-1984 : Elementary school, College, Lausanne

1984-1986 : Gymnase Cantonal du Bugnon, Lausanne

1986-1992 : Faculty of Biology and Medicine (FBM), University of Lausanne

POSTGRADUATE EDUCATION & POSITIONS HELD

1993 : Resident, Cardiac surgery, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland
Prof Sadeghi

1994 : Resident, Anesthesiology, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland
Prof Freeman

1995 : Resident, Pathology, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland
Prof A. Genton

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- 10.1995-03.1998 : Resident, Department of Radiology, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Prof P. Schnyder
- 04.1998-09.1998 : Resident, Department of Radiology, Hôpital Cochin, Paris Prof A. Chevrot
- 10.1998-09.1999 : Resident, Department of Radiology, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Prof P. Schnyder
- 10.1999-04.2000 : Fellow, Department Radiology, Hôpital Cochin, Paris Prof A. Chevrot
- 05.2000-03.2001 : Clinical and Research Fellow, Radiology, VAMC Hospital, San Diego Prof D. Resnick
- 04.2001-03.2004 : Médecin associé, Department of Diagnostic and Interventional Radiology, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland Prof P. Schnyder
- 04.2004 : Médecin adjoint, Department of Diagnostic and Interventional Radiology, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland Prof P. Schnyder
- 05.2009 : Associated Professor, Department of Diagnostic and Interventional Radiology, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland Prof P. Schnyder
- 1.2012 : chief of radiology department diagnostic and interventional radiology, Clinique Bois-Cerf, 1006 Lausanne, Switzerland
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DIPLOMAS AND ACADEMICAL TITLES

- Baccalaureate C, Swiss Federal Maturity, Gymnase du Bugnon, 1986
- Diplôme fédéral de médecine, University of Lausanne 1992
- American Final Medical Exam (Educational Commission for Foreign Medical Graduates) 1993
- Doctorat de la Faculté de médecine de Lausanne 1996
- Swiss medical Board in Radiology, FMH 1999
- Privat docent and maître d'enseignement et de recherche, Faculty of Biology and Medicine (FBM), University of Lausanne, 2003

AWARDS

- UCSD 2001** : **Academic Award in Musculoskeletal Radiology**
- ESSR/ISS2001** : **Scientific Award**
Theumann NH, Pfirrmann CW, Resnick D. Carpal Ligaments: detailed MR Arthrographic appearance and observations relevant to the diagnosis of carpal instability. ISS/ESSR 2001. European Society of Musculoskeletal Radiology, 8th Annual Meeting. Budapest, 6th october. ISS-ESSR Award
- SSR 2001** : **Prize of the Poster « Magna cum laude »**
Theumann, N. Pfirrmann, C. W. Trudell, D. J. Resnick, D. MR Imaging of the Extrinsic Ligaments of the Wrist : Normal MR Arthrographic Findings in Cadavers. SSR. SSR 2001. 88ème Congrès annuel de la Société Suisse de Radiologie. Lugano 16-19 mai. Prix du poster "magna cum laude".
- JFR 2001** : **Prize of the Poster « Mention spéciale »**
Theumann N. Imagerie des articulations métacarpophalangiennes des doigts 1ère et 2ème parties. JFR'2001. Journées Française de Radiologie, Paris 20-24 oct. 2001. Prix de l'exposition scientifique. Mention spéciale - **Ostéoarticulaire**
- ECR 2002** : **Prize of the Poster « Cum Laude»**
Theumann N, Pfirrmann CW, Drapé J, Resnick D. MR Imaging of the Metacarpophalangeal Joints of the Fingers Part I : Normal MR and MR Arthrographic Findings in Cadavers. ECR 2002. European Congress of Radiology. Vienna, March 1-5. Prize of the Poster « **Cum Laude**»

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- ECR 2002** : **Prize of the Poster « Certificate of Merit »**
Theumann N., Abdelmoumene A., Gailloud-Matthieu MC., Raffoul W.
Post-Traumatic Pseudo-Lipoma (fatty deformities): an unknown
radiological entity. ECR 2002 European Congress of Radiology.
Vienna, March 1-5. ECR 2002. Prize of the poster Certificate of Merit.
- ECR 2002** : **Prize of the Poster « Certificate of Appreciation »**
Theumann N., Pfirrmann CW, Drapé J, Resnick D. Carpal Ligaments:
detailed MR Arthrographic appearance and observations relevant to
the diagnosis of carpal instability. European Congress of Radiology.
Vienna, March 1-5. ECR 2002. Prize of the poster Certificate of
Appreciation.
- APERR 2003** : **Prize for Research in Radiology**

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

- Member of the Radiological Society of North America (RSNA) 1995
- Ordinary Member of the FMH 1995
- Ordinary Member of the ASMAV 1995
- Ordinary Member of the European society of Skeletal Radiology (ESSR) 1995
- Member of the European Congress of Radiology (ECR) 1995
- Member of the Société Française de Radiologie (SFR) 1995
- Ordinary Member of the International Skeletal Society (ISS) 1998
- Member of the French « Groupe d'étude et de travail en radiologie ostéoarticulaire » (GETROA) 1998

EDITORIAL BOARD

Reviewer for :

- Skeletal Radiology 2004
- European Radiology 2005

Educational speaker:

- European Congress of Radiology - 2002
- European Society for Magnetic Resonance in Medicine and Biology School of MRI 2004
- International Skeletal Society (ISS) 1998

SCIENTIFIC, ADMINISTRATIVE AND APPOINTMENTS COMMITTEES IN THE CHUV, FBM

- **Theumann N.** Président de la commission de présentation pour un poste de professeur associé en recherche et développement dans le domaine des maladies osseuses, responsable du Centre des maladies osseuses. UniL, Université de Lausanne, Faculté de biologie et de médecine. <http://www2.unil.ch/cgi-bin/cgiwrap/wwwiafbm/user1/commissions/..2011>.
- **Theumann N.** *Président of the Committee for a Professorial position in research and Development in the field of bone diseases. University of Lausanne, Université de Lausanne, Faculty of biology et de médecine.* <http://www2.unil.ch/cgi-bin/cgiwrap/wwwiafbm/user1/commissions/>. 2011.

RECENT OR CURRENT ACTIVITIES (2003-2008)

TEACHING

Teaching and research within the Faculté de biologie et médecine, University of Lausanne

1. Pre-graduate :

Teaching of general radiology for the medical students

- 1.1. General Radiology course, 4nd years'student (5hours/year)
- 1.2. Practical lessons "Enseignement au lit du malade » (ELM), 4th years'student (3h/year)
- 1.3. Supervision of trainees, 5^h years'student
- 1.4. Seminar in radiology, 6th years'student (8h).

2. Post-graduate:

2.1 Local

- 2.1.1. Seminar (Privat docent lecture (10 hours/year)
- 2.1.2. Rhumatologic radiology's weekly meeting for (50 hours/year)
- 2.1.3. Orthopaedic radiology's weekly meeting for (50 hours/year)
- 2.1.4. Sarcoma's weekly meeting (25 hours/year)

RESEARCH – FUNDINGS FROM FNRS (A) OR OTHER ORIGIN (B) OTHERS (C)



405340- **Evaluation of the volume and fat content of paravertebral lumbar muscles as a**
104846 **new prognostic feature using MRI and MR spectroscopy in chronic low back pain patients**

Theumann Nicolas 01.10.2004 31.10.2007 NRP 53 (Musculoskeletal Health - Chronic Pain) [» Details](#)

Applicants Dr Nicolas Theumann, (Dept. of Radiodiagnostic, CHUV, Lausanne)

Co-applicants Dr Pierre de Goumoëns (Dept. of Rheumatology, CHUV, Lausanne)
Dr Jean Dudler (Dept. of Rheumatology, CHUV, Lausanne)
Prof. Reto Meuli (Dept. of Radiodiagnostic, CHUV, Lausanne)
Dr Jean-Yves Meuwly (Dept. of Radiodiagnostic, CHUV, Lausanne)

Amount of funding CHF 253'000.00 for 3 years.



205321- **Reconstruction of patients'3D knee kinematics in daily life conditions**

120136 Aminian Kamiar 01.09.2008 31.08.2011 Project Support: Independent Basic Res [» Details](#)

Origine of funding: FNS
Protocol Nb: Protocole/Ref. No
2008-2011: 2008, 2009, 2010, 2011
Project duration: 01.09.2008 - 31.08.2011
Date decision:
Principal investigator: Aminian, KP
Co-investigators: Jolles-Haerberli B, Theumann N, Thiran J
Collaboration: Barré A

Amount granted: CHF 259'569.00



32003B- **Pathways regulating human skeletal muscle atrophy and hypertrophy in vivo:**
105936 **effect of oral creatine supplementation**

Gobelet Charles-Albert 01.12.2004 11.2007 Project Support: Independent Basic Research [» Details](#)

Category: A
Origine of funding: FNS
Protocol Nb: Protocole/Ref. No
2004, 2005, 2006, 2007: 2004, 2005, 2006, 2007
Project duration: 01.12.2004 - 30.11.2007
Date decision:
Principal investigator: Gobelet, C, PI
Co-investigators: Deriaz O, Lyle R, Siegrist O, Wallimann T
FNS Collaboration : Theumann N
Amount granted: CHF 260'000.00

Méthodologie Ultrasonographique pour la mise en évidence des ligaments extrinsèques du poignet.

Cat: C
 Origin of Fund.: Intern.
 Protocol. No.:
 Yr/Année: 2003
 Project dur.:
 Principal investig.: Theumann N. PI
 Co-Investig: Guntern D

CT-guided radio-frequency ablation of osteoid osteoma.

Cat: C
 Origin of Fund.: Intern
 Protocol. No.:
 Yr/Année: 2005
 Project dur.:
 Principal investig.: Becce F., Theumann N.

Clinical Study : A randomized, controlled, open-label, 48-week study of continuing successfully suppressive treatment in HIV 12 infected adults with first-line twice-daily zidovudine and Lamivudine-based regimens versus proactively replacing of Zidovudine and Lamivudine by ONCE-DAILY Emtricitabine and Tenofovir Disoproxil Fumarate to Prevent progression of reverse peripheral lipoatrophy.

Cat: B
 Origin of Fund.: IATEC
 Protocol. No.: Clinical Study Protocol : No 2005-005672-005633 –
 EudraCT no –IATEC project No PR_000095_005601

Yr/Année: 2005, 2006, 2007
 Project dur.:
 Principal investig.: Reiss P., Furrer J., Theumann N.
 Co-Investig:
 Amount granted/Montant:

Analyse biomécanique pour la reconstruction du ligament croisé postérieur.

Cat : B
 Origin of Fund. : Fonds de recherche commun : HO– EPFL
 Yr/Année : 2006
 Principal investig. : Ramaniraka NA,
 Co-Investig : Siegrist C. A., Theumann N.
 Amount granted/Montant : CHF 150'000.00

Multidetector CT: Radiation dose optimization

Cat : C
 Yr : 2006
 Principal Investig : Verdun, F
 Investigators : Theumann N, Poletti P, Gutierrez D, Aroua A,
 Schnyder P, Valley JF, Qanadli S

Comparaison IRM-Ultrason pour la visualisation des ligaments extrinsèques du poignet.

Cat. : C
 Origin of Fund. : Internal
 Yr : 2007
 Principal Investig. : Theumann, N, Guntern, D
 Co-Investigators : Guntern D

Finger A2 pulley lesions in rock climbers: Detection and characterization with magnetic resonance imaging at 3 Tesla

Cat : C
 Origin of Fund. : Intern.
 Yr : 2007
 Principal Investig. : Guntern, DP
 Co-Investigators : Goncalves-Matoso V, Gray A, Picht C, Schnyder P, Theumann

3.0-Tesla magnetic resonance imaging of the fingers: what are the best sequences to depict normal and traumatized A2 pulleys?

C : C
 Origin of Fund. : Intern.
 Yr : 2007
 Principal Investig. : Matoso, VP
 Co-Investigators : Guntern D, Gray A, Picht C, Schnyder P, Theumann N

CT-guided sacroplasty

Cat. : C
 Protocol. : Protocole envoyé le 28 novembre 2005
 Début de l'étude : Janvier 2006
 Y : 2006, 2007, 2008
 Applicants : Dudler J., So A., Duvoisin B., Theumann N.
 Amount granted : 30'000.00 CHF

Utilité de l'imagerie par CT à haute résolution de la main dominante pour le suivi de l'atteinte structurelle (érosion et pincements articulaires) chez les patients souffrant de polyarthrite rhumatoïde

Cat : C
 Origin of Fund. : Intern.
 Yr : 2007, 2008
 Principal Investig. : Dudler, J, PI.,
 Co-Investigators : So, A, Duvoisin, B, Theumann, N, PI.

MR Arthrography of the hip : Utility of axial traction

Cat. : C
 Origin of Fund. : Internal
 Yr : 2007, 2008
 Principal Investig. : Guntern, D
 Co-Investigators : Palhais N, Theumann N

MR Arthrography of the knee : Utility of axial traction

Short title : MR Arthrography of the knee : Utility of axial traction
 Cat. : C
 Origin of Fund. : Internal
 Yr : 2007, 2008
 Principal Investig. : Palhais, N, Theumann, N, Guntern, D

MR Arthrography of the shoulder : Utility of axial traction

Short title : MR Arthrography of the shoulder : Utility of axial traction
 Cat. : **C**
 Origin of Fund. : Internal
 Yr : 2007, 2008
 Principal Investig. : Guntern, D, Palhais, N, Theumann, N

MR Arthrography of the wrist : Utility of axial traction

Cat. : **C**
 Origin of Fund. : Internal
 Yr : 2007, 2008
 Principal Investig. : Guntern, D, Palhais, N, Theumann, N

ICON medical Imaging.

Cat : **C**
 Origin of Fund. : Bristol-Meyers Squibb
 Protocol. No. : IM101-158 Abatacept BMS18867
 Yr/Année : 2007, 2008 terminé
 Principal investig. : Dudler J, Revaz S., Theumann N.
 Co-Investig : Chevrey N, Borchardt I

Tibial shaft fractures.

Cat : **B**
 Origin of Fund. : SYNARC
 Protocol Nb. : Kuros CS I-040202/040201
 Yr : 2007, 2008, 2009
 Project duration. : 6 months
 Investigators : Moushine E., Theumann N.
 Amount granted : CHF 300'000.00

Tibial plateau fractures

Cat : **B**
 Origin of Fund. : SYNARC
 Protocol. : Kuros CS I-040202/040202
 Yr : 2007, 2008, 2009
 Project duration. : 6 months
 Investig. : Moushine, E, Theumann, N
 Amount granted : CHF 300'000.00

Effets des glitazones sur la composition corporelle chez les patients traités par dialyse.

Cat : **B**
 Origin of Fund. : Fonds de recherche néphrologie
 Yr : 2007, 2008, 2009
 Project duration. : 3 ans
 Investig. : Zancchi A., Theumann N.
 Amount granted : CHF 100'000.00

European multicenter study Prodisc-C.

Categ. : C
 Origin of Fund. : SYNTHES
 Yr : 2008
 Project duration. : 6 mois
 Principal Applicant : Theumann, N.
 Amount granted : CHF 10'000.00

FN Reconstruction of patients'3D knee kinematics in daily life conditions Cat: A 1

Origin of Fund.: FNS
 Protocol. No.: 205321- 120136
 Yr/Année: 2008, 2009, 2010, 2011
 Project dur.: 01.09.2008 - 31.08.2011
 Principal investig: Aminian K. PI, Jolles-Haeberli B., Theumann N., Thiran JP., (collaboration)., Barré A.
 Co-Investig:
 Amount granted/Montant: CHF 259'569.00

Etude arthro-IRM/CT rapidocaïne-bupivacaïne.

Cat: C
 Origin of Fund.: Interne
 Protocol. No.:
 Yr/Année: 2010
 Project dur.:
 Principal investig: Mosimann P. PI, Theumann N., Richarme D., Meuli R., Knoepfli-Wilson AS., Marlois R., Mino V., Becce F.
 Co-Investig:
 Amount granted/Montant:

CE 19/11 Arthro-scanner et /ou arthro-IRM : étude sur l'efficacité potentielle d'une infection intra-articulaire d'anesthésique local./ Can the adjunction of intra-articular bupivacain significantly alleviate the pain following MR or CT-arthrography and if so, is it more effective than lidocain. A randomized prospective study.

Cat: C
 Origin of Fund.: Interne
 Protocol. No.: Demande à la CE décembre 2010.
 Yr/Année: 2010, 2011
 Project dur.:
 Principal investig: Theumann N., Richarme D., Mosimann P., Meuli R.

Extensor Carpis Ulnaris accessory tendinous slip: prevalence, 3-T MRI appearance and link with tenosynovitis and tendinopathy.

Cat/Class.: C
 Origin of Fund: Interne
 Yr/Années: 2010
 Project duration: Etude débutée en 2010, en cours de réalisation.
 Principal investig: Becce F., Theumann N.
 Co-Investigators: Fumeaux A., Richarme D., Drapé JL.

Fractures du triquetrum : lésions ligamentaires extrinsèques dorsales associées et leur évolution clinique.

Cat/Class.: C
 Origin of Fund: Intern.
 Yr/Années: 2010, 2011
 Project duration: Etude débutée en février 2010 et financée par le CIBM, CHUV, Lausanne continue en 2011
 Principal investig: Becce F., Theumann N.
 Co-Investigators: Bollmann C, Richarme D, Vostrel P, Drapé JL.

Etude de la diffusion en IRM 3T en pathologie tumorale ostéo-articulaire.

Cat/Class.: C
 Origin of Fund: Intern.
 Yr/Années: 2010
 Project duration: Etude débutée en 2010, en cours de réalisation
 Principal investig: Fetz G., Theumann N.
 Co-Investigators: Becce F, Richarme D, Meuli R

Is spinal stenosis assessment dependent on slice orientation? An MRI study**Henderson L, Kulik G, Richarme D, Theumann N, Schizas C**

Cat/Class.: C
 Origin of Fund: Intern
 Yr/Années: 2010
 Project duration: Etude réalisée en 2010. Article en cours d'écriture
 Principal investig: Henderson L., Schizas C
 Co-Investigators: Kullik G, Richarme D, Theumann N,

Arthro-IRM directe de l'épaule à 3Tesla : intérêt de la traction axiale.

Cat/Class.: C
 Origin of Fund: Intern.
 Yr/Années: 2006 reprise en 2010, 2011
 Project duration: Etude débutée en 2006 puis reprise en 2010. Article en cours d'écriture
 Principal investig: Richarme D., Theumann N.
 Co-Investigators: Becce F., Guntern D., Kamel E.

Etude SpineJack, Vexim

Class:
 Origin of funding:
 Protocol:
 Yr: 2011
 Project duration:
 Date decision:
 Principal Investig: Theumann N.
 Others Investig:
 FNS Collaboration:
 Amount granted:
 Short title: Etude SpineJack, Vexim

PUBLICATIONS

Publications in peer-review journals :

1999

1. Theumann N. H., Verdun F. R., Valley J. F., Capasso P., Schnyder P., Meuli R. A., Radiation doses delivered to radiologists during contrast-enhanced helical-CT examinations. *European Radiology* 9(9), pp. 1919-1922, 1999. [[Pubmed](#)]

2001

2. **Jolles B. M., Porchet F., Theumann N.**, Surgical treatment of lumbar spinal stenosis. Five-year follow-up. *J Bone Joint Surg Br* 83(7), pp. 949-53, 09-2001. [[Pubmed](#)]
3. **Pfirmsmann C. W., Chung C. B., Theumann N. H., Trudell D. J., Resnick D.**, Greater trochanter of the hip: attachment of the abductor mechanism and a complex of three bursae--MR imaging and MR bursography in cadavers and MR imaging in asymptomatic volunteers. *Radiology* 221(2), pp. 469-77, 11-2001. [[Pubmed](#)]
4. **Pfirmsmann C. W., Theumann N. H., Chung C. B., Botte M. J., Trudell D. J., Resnick D.**, What happens to the triangular fibrocartilage complex during pronation and supination of the forearm? Analysis of its morphology and diagnostic assessment with MR arthrography. *Skeletal Radiol* 30(12), pp. 677-85, 12-2001. [[Pubmed](#)]
5. **Theumann N. H., Bittoun J., Goettmann S., Le Viet D., Chevrot A., Drape J. L.**, Hemangiomas of the fingers: MR imaging evaluation. *Radiology* 218(3), pp. 841-7, 03-2001. [[Pubmed](#)]
6. **Theumann N. H., Pfirmsmann C. W., Chung C. B., Mohana-Borges A. V., Haghghi P., Trudell D. J., Resnick D.**, Intermetatarsal spaces: analysis with MR bursography, anatomic correlation, and histopathology in cadavers. *Radiology* 221(2), pp. 478-84, 11-2001. [[Pubmed](#)]
7. **Theumann N., Favarger N., Schnyder P., Meuli R.**, Wrist ligament injuries: value of post-arthrography computed tomography. *Skeletal Radiol* 30(2), pp. 88-93, 02-2001. [[Pubmed](#)]

2002

8. **Pfirmsmann C. W., Theumann N. H., Botte M. J., Drape J. L., Trudell D. J., Resnick D.**, MR imaging of the metacarpophalangeal joints of the fingers: part II. Detection of simulated injuries in cadavers. *Radiology* 222(2), pp. 447-52, 02-2002. [[Pubmed](#)]
9. **Pfirmsmann C. W., Theumann N. H., Chung C. B., Trudell D. J., Resnick D.**, The hamatolunate facet: characterization and association with cartilage lesions--magnetic resonance arthrography and anatomic correlation in cadaveric wrists. *Skeletal Radiol* 31(8), pp. 451-6, 08-2002. [[Pubmed](#)]
10. **Theumann N. H., Goettmann S., Le Viet D., Resnick D., Chung C. B., Bittoun J., Chevrot A., Drape J. L.**, Recurrent glomus tumors of fingertips: MR imaging evaluation. *Radiology* 223(1), pp. 143-51, 04-2002. [[Pubmed](#)]

11. **Theumann N. H., Pfirrmann C. W., Chung C. B., Antonio G. E., Trudell D. J., Resnick D.**, Pisotriquetral joint: assessment with MR imaging and MR arthrography. *Radiology* 222(3), pp. 763-70, 03-2002. [[Pubmed](#)]
12. **Theumann N. H., Pfirrmann C. W., Chung C. B., Antonio G. E., Trudell D. J., Resnick D.**, Ligamentous and tendinous anatomy of the intermetacarpal and common carpometacarpal joints: evaluation with MR imaging and MR arthrography. *J Comput Assist Tomogr* 26(1), pp. 145-52, 02-2002. [[Pubmed](#)]
13. **Theumann N. H., Pfirrmann C. W., Drape J. L., Trudell D. J., Resnick D.**, MR imaging of the metacarpophalangeal joints of the fingers: part I. Conventional MR imaging and MR arthrographic findings in cadavers. *Radiology* 222(2), pp. 437-45, 02-2002. [[Pubmed](#)]
14. **Theumann N. H., Pfirrmann C. W., Mohana Borges A. V., Trudell D. J., Resnick D.**, Metatarsophalangeal joint of the great toe: normal MR, MR arthrographic, and MR bursographic findings in cadavers. *J Comput Assist Tomogr* 26(5), pp. 829-38, 10-2002. [[Pubmed](#)]
15. **Theumann N. H., Verdon J. P., Mouhsine E., Denys A., Schnyder P., Portier F.**, Traumatic injuries: imaging

2003

16. **Mohana-Borges A. V., Theumann N. H., Pfirrmann C. W., Chung C. B., Resnick D. L., Trudell D. J.**, Lesser metatarsophalangeal joints: standard MR imaging, MR arthrography, and MR bursography--initial results in 48 cadaveric joints. *Radiology* 227(1), pp. 175-82, 04-2003. [[Pubmed](#)]
17. **Theumann N. H., Pfirrmann C. W., Antonio G. E., Chung C. B., Gilula L. A., Trudell D. J., Resnick D.**, Extrinsic carpal ligaments: normal MR arthrographic appearance in cadavers. *Radiology* 226(1), pp. 171-9, 01-2003. [[Pubmed](#)]
18. **Wintermark M., Mouhsine E., Theumann N., Mordasini P., van Melle G., Leyvraz P. F., Schnyder P.**, Thoracolumbar spine fractures in patients who have sustained severe trauma: depiction with multi-detector row CT. *Radiology* 227(3), pp. 681-9, 06-2003. [[Pubmed](#)]

2004

19. **Cavassini R., Guyot E., Theumann N., Cavassini M.**, Etat confusionnel avec pneumencéphale: quel est votre diagnostic ? A Patient With Confusion and Pneumocephalus: Wat is Your diagnosis? *Praxis* 93, pp. 2105-2107, 12-2004.
20. **Mouhsine E., Garofalo R., Theumann N., Zouhair A., Leyvraz P. F.**, [Biopsy and surgical treatment of soft tissue tumors]. *Rev Med Suisse Romande* 124(9), pp. 583-7, 09-2004. [[Pubmed](#)]
21. **Theumann N., Leyvraz P. F., Garofalo R., Zouhair A., Mouhsine E.**, [The role of diagnostic imaging in sarcoma]. *Rev Med Suisse Romande* 124(9), pp. 589-92, 09-2004. [[Pubmed](#)]
22. **Zouhair A., Ozsahin M., Garofalo R., Leyvraz P. F., Theumann N., Mirimanoff R. O., Coucke P. A., Mouhsine E.**, [Prevention of heterotopic ossification following prosthetic total hip replacement]. *Rev Med Suisse Romande* 124(9), pp. 579-82, 09-2004. [[Pubmed](#)]

2005

23. **Berner I. C., Theumann N., Dudler J.**, [Rheumatoid arthritis and pregnancy]. *Rev Med Suisse* 1(10), pp. 694-8, 03-2005. [[Pubmed](#)]
24. **Binaghi S., Theumann N., Doenz F., Regli L., Reichart M., Michel P., Uske A.**, [Interventional neuroradiologic procedures]. *Rev Med Suisse* 1(27), pp. 1785-9, 07-2005. [[Pubmed](#)]
25. **Dudler J., Theumann N., Berner I. C.**, [Clinical evaluation of rheumatoid arthritis in practice]. *Rev Med Suisse* 1(10), pp. 664-6, 669, 03-2005. [[Pubmed](#)]
26. **Garofalo R., Mocci A., Moretti B., Callari E., Di Giacomo G., Theumann N., Cikes A., Mouhsine E.**, Arthroscopic treatment of anterior shoulder instability using knotless suture anchors. *Arthroscopy* 21(11), pp. 1283-9, 11-2005. [[Pubmed](#)]
27. **Meuwly JY, Lepori D, Theumann N, Schnyder P, Etehami G, Hohlfeld J, Gudinchet F**, Multimodality imaging evaluation of the pediatric neck: techniques and spectrum of findings. *Radiographics* 25(4), pp. 931-948, 2005. [[doi](#)] [[Pubmed](#)]
28. **Mouhsine E., Halkic N., Garofalo R., Taylor S., Theumann N., Guillou L., Leyvraz P. F.**, Soft-tissue textiloma: a potential diagnostic pitfall. *Can J Surg* 48(6), pp. 495-6, 12-2005. [[Pubmed](#)]
29. **Ramaniraka N. A., Terrier A., Theumann N., Siegrist O.**, Effects of the posterior cruciate ligament reconstruction on the biomechanics of the knee joint: a finite element analysis. *Clin Biomech (Bristol, Avon)* 20(4), pp. 434-42, 05-2005. [[Pubmed](#)]
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