

# **ZOE H. DAILIANA, MD, PhD**

**ORTHOPAEDIC SURGEON-HAND SURGEON**

**PROFESSOR**

**DEPARTMENT OF ORTHOPAEDIC SURGERY, FACULTY OF MEDICINE,  
SCHOOL OF HEALTH SCIENCES, UNIVERSITY OF THESSALY  
BIOPOLIS 41110 LARISSA, GREECE**

Private practice address: 12 Koumoundourou St, 41222 Larissa, Greece

Phone: +30-2413-501199 (University) & 30-2410-250271 (Private practice)

Fax: +30-2410-250272 (Private practice)

e-mail: [dailiana@med.uth.gr](mailto:dailiana@med.uth.gr) & [dailiana@otenet.gr](mailto:dailiana@otenet.gr) & [info@dailiana.gr](mailto:info@dailiana.gr) (private practice)

Born in Athens, Greece.

Married

## **Current Position**

- Certified Orthopaedic Surgeon
- Certified Hand and Upper Extremity Surgeon
- **Professor**, Department of Orthopaedic Surgery, Faculty of Medicine, School of Health Sciences, University of Thessalia, Larissa, Greece

## **Previous Academic Affiliations**

- **2001-2006**      **Lecturer**, Department of Orthopaedic Surgery, Faculty of Medicine, School of Health Sciences, University of Thessalia, Larissa, Greece
- **2006-2012**      **Assistant Professor**, Department of Orthopaedic Surgery, Faculty of Medicine, School of Health Sciences, University of Thessalia, Larissa, Greece
- **2012-2017**      **Associate Professor**, Department of Orthopaedic Surgery, Faculty of Medicine, School of Health Sciences, University of Thessalia, Larissa, Greece

- **May 2017-today Professor**, Department of Orthopaedic Surgery, Faculty of Medicine, School of Health Sciences, University of Thessalia, Larissa, Greece

### **Education**

- Medical School of University of Ioannina, Greece (*graduate 1990*)
- Medical School of University Pierre Marie Curie-Paris 6, France (*Diplome Universitaire de Chirurgie de la Main et du Membre Superieur 1998*)
- Medical School of University of Ioannina, Greece (*PhD Thesis 1997*)

### **Training**

Department of Orthopaedic Surgery, Medical School of University of Ioannina, Greece

### **Fellowships**

- “Institut de la Main”, Paris, FRANCE (1997-1998)
- Department of Orthopaedic Surgery, Duke University Medical Center, Durham, NC, USA (1998-2001)

### **Languages**

Greek, English, French

### **Scholarships: 5**

- National Foundation Scholarship for Medical School
- Onassis Foundation Scholarship for postdoctoral research in USA
- NATO Foundation Scholarship for postdoctoral research in USA
- “I. Agnantis” Scholarship for postdoctoral research in USA
- Travelling fellowship of Hellenic Association of Orthopaedic Surgery and Traumatology

**Scientific awards: 15**

**Grants awarded: 16**

**Member of Scientific Societies: 19** (7 national & 12 international)

**President of Scientific Societies**

- Hellenic Society for Surgery of the Hand (year 2007)
- Hellenic Society for Reconstructive Microsurgery (year 2017)

**FESSH Hand Trauma Committee Representative** since 2010**Member of Accreditation Committee of HTC/FESSH** since 2012**Reviewer:** in **11** Scientific Journals**Member of Editorial Board:** of **2** books**Meetings attended:** 375**Lectures/R. tables/debates:** 362**Oral presentations:** 381**Posters:** 125**Publications:** **121****International:** 109 (101 appear in pubmed)**Greek:** 12**Published abstracts:** 175**Book chapters:** 30**Book:** 1**Citations:** 2124 (Scopus) 3296 (Google Scholar)**H-index:** 24 (Scopus) 30 (Google Scholar)

**Scientific interests**

Hand and Upper Extremity Surgery; Reconstructive Microsurgery; Congenital anomalies; Osteonecrosis; Osteoporosis; Musculoskeletal Infections, Basic Science

*Principal investigator in studies* that lead to publication in peer-reviewed journals:

- ⇒ **Experimental model of osteonecrosis with the use of cryosurgery** (Surgical Forum, 2000);
- ⇒ **Surgical anatomy of spinal accessory nerve** (J Hand Surgery, 2001);
- ⇒ **Osteogenesis from vascularized periosteum and bone grafts** (J Trauma 2002);
- ⇒ **Heterotopic ossification in patients with osteonecrosis treated with FVFG** (J Arthroplasty, 2003);
- ⇒ **Vascularized periosteal flaps in upper extremity surgery** (J Trauma, 2005 and Injury, 2006 and Microsurgery 2009 and Journal of Hand Surg Am 2010);
- ⇒ **MRI for the evaluation of the scaphoid disorders** (Eur J Radiology, 2004 and Eur. Radiology, 2007);
- ⇒ **Heparin induced thrombosis** (J Trauma, 2007) (ongoing research);
- ⇒ **Core decompression following FVFG in osteonecrosis** (J Arthroplasty, 2007);
- ⇒ **Upper extremity infections** (Scand J Plast Surgery, 2008 and J Hand Surg, 2008 and Med Science Monitor, 2008 and Orthop Rev 2012 and 3 book chapters);
- ⇒ **Growth Factors/BMPs for the treatment of nonunions and skeletal defects and femoral head osteonecrosis** (Bone Joint J 2014 and Acta Orthopaedica et Traumatologica Hellenica 2014 and Bone Joint J 2015);
- ⇒ **Periosteum and fracture healing** (J Bone Joint Surg Br 2012);
- ⇒ **Gene expression in femoral heads of patients with osteonecrosis** (Dis Markers 2012 and Mol Biol Rep 2013 and Exp Mol Pathol 2013);
- ⇒ **Hand tumors** (J Hand Surg Am 2011 and Arch Orthop Trauma Surg 2014);
- ⇒ **Quality of life after major joint arthroplasties** (BMC Musculoskelet Disord 2012 and BMC Musculoskelet Disord 2015 and 1 book chapter);
- ⇒ **Association of specific polymorphisms and biochemical factors with osteoporosis/osteoporotic fractures** (Nature Genetics 2012 and Calcif Tissue Int 2012 and J Bone Miner Res 2012 and Hum Genomics 2013 and Nature 2015);

- ⇒ **E-xtremity: a telemedicine system for mangling extremity injuries** (ITAB 2010);
- ⇒ **Online performance support environment for minimally invasive orthopaedic Surgery (OnLineOrtho)** (abstract in JBJS-Orthop Proceedings 2011);
- ⇒ **Tackling Arthritis using a Biomechanical and Systems Biology approach** (Conf Proc IEEE Eng Med Biol Soc 2011 **and** Osteoarthritis Cartilage 2014);
- ⇒ **OrthoBioMed: e-learning project: Osteosynthesis for surgical management of fractures for orthopedic surgeons and biomedical engineers** (ongoing research)

*Co-investigator in 5 studies:*

- ⇒ **Potential aetiological factors in osteonecrosis** (Eur J Clin Investigation, 2000);
- ⇒ **MRI findings in transient osteoporosis** (Eur J Radiology, 2004);
- ⇒ **Intermittent Pneumatic Compression in fracture healing** (J Orthop Trauma, 2005);
- ⇒ **Treatment of scaphoid nonunions** (J Hand Surgery, 2001 **and** J Hand Surgery, 2006 **and** J Hand Surgery, 2006 **and** Plast Recon Surgery, 2007 **and** J Hand Microsurg, 2009 **and** J Hand Surgery, 2014 **and** 2 book chapters);
- ⇒ **Synovial fluid metabolites in osteonecrosis** (Rheumatology, 2007).

**BOOK CHAPTERS**

1. A.E. Beris, K.N. Malizos, A. Korobilias, **Z. Dailiana**, E. Bontioti, P.N. Soucacos.  
*«Multicenter experience with free vascularized fibular grafts for osteonecrosis of the femoral head. The Greek experience»*  
**In Urbaniak JR, Jones JP (eds) “Osteonecrosis: Etiology, Diagnosis and Treatment”**  
**published by the American Academy of Orthopaedic Surgeons, USA 1997. Chapter 45, p. 338-339.**
2. **Z.H. Dailiana**, G. Pajardi, D. Le Viet, G. Foucher.  
*«Les tumeurs glomiques de la main. A propos d’une serie de 80 patients»*  
**In Monographie du G.E.M. n° 27, “L’ ongle”, published by Editions scientifiques et medicales Elsevier SAS (Paris), France 2000. p. 201-205.**
3. D. Le Viet, **Z. Dailiana**.  
*«Le golf, le swing et la fracture de l’apophyse unciforme de l’os crochu»*  
**In Rodineau J, Saillant G (eds) “Un sport, un geste, une pathologie”, published by Masson in Paris, France November 2000. p. 76-87.**
4. Dominique Le Viet and **Zoe Dailiana**.  
*«Tenolysis of flexor tendons»*  
**In Duparc J (eds) “Surgical Techniques in Orthopaedics and Traumatology”, published by Editions Scientifiques et Medicales Elsevier SAS (Paris), France 2002. 55-340-C-10.**
5. **Zoe Dailiana** and Dominique Le Viet.  
*«Finger joint arthroplasties»*  
**In Tubiana R, Gilbert A (eds) “Surgery of Disorders of the Hand and Upper Extremity: Bone and Skin Disorders”, published by Martin Dunitz in London, UK, 2002. p. 107-120.**
6. **Zoe Dailiana**, Dominique Le Viet, R. Tubiana.

*«Proximal and middle finger mutilations»*

**In Tubiana R, Gilbert A (eds) “Bone and Skin Disorders”, published by Martin Dunitz in London, UK 2002. p. 469-476.**

**7. Dominique Le Viet and Zoe Dailiana.**

*“Transposition of ulnar rays by intracarpal osteotomy»*

**In Tubiana R, Gilbert A (eds) “Surgery of Disorders of the Hand and Upper Extremity: Bone and Skin Disorders”, published by Martin Dunitz in London, 2002. p. 477-484.**

**8. D. Le Viet, G. Foucher, Z. H. Dailiana, J. L. Drape.**

*«Les tumeurs glomiques de la main»*

**In “La main rhumatologique”, published by Editions MED-LINE in Paris, France, 2003. p. 36-45.**

**9. K.N. Malizos, C. Zalavras, Z.H. Dailiana.**

*«Reconstruction of large skeletal defects of the extremities with the free vascularized fibula graft»*

**In Malizos KN (ed) “Reconstructive Microsurgery”, published by Landes Bioscience in Georgetown, Texas, USA, 2003. p. 154-169.**

**10. K.N. Malizos, C. Zalavras, Z.H. Dailiana.**

*«The iliac crest bone graft for the reconstruction of large skeletal defects»*

**In Malizos KN (ed) “Reconstructive Microsurgery”, published by Landes Bioscience in Georgetown, Texas, USA, 2003. p. 170-174.**

**11. Ph. Valenti, Zoe Dailiana, A. Gilbert.**

*«Traumatic brachial plexus injuries in adults and in newborns»*

**In Malizos KN (ed) “Reconstructive Microsurgery”, published by Landes Bioscience, in Georgetown, Texas, USA, 2003. p. 204-221.**

12. Dominique Le Viet, **Zoe Dailiana**.  
«*Tendinitis and epicondylitis*»  
**In Tubiana R, Gilbert A (eds) “Surgery of Disorders of the Hand and Upper Extremity: Tendon, Nerve and other Disorders”, published by Taylor & Francis in London, UK, 2005. p. 585-601.**
13. **Z. H. Dailiana**, N. Rigopoulos, S. Varitimidis, K. N. Malizos  
«*Deep space infections of the hand and wrist*»  
**In Malizos KN, Soucacos PN (eds) “Infections of the Hand and Upper Limb”, published by Paschalides Medical Publications in Athens, Greece, 2007. p. 143-152.**
14. S. Varitimidis, **Z. H. Dailiana**, N. Rigopoulos, A. Maniatis, K. N. Malizos  
«*Staphylococcal infections of the soft tissues in the upper extremity*»  
**In Malizos KN, Soucacos PN (eds) “Infections of the Hand and Upper Limb”, published by Paschalides Medical Publications in Athens, Greece, 2007. p. 161-166.**
15. **Z. H. Dailiana**, L. Papatheodorou  
«*Local flaps in complex hand injuries*»  
**In Dubert T (ed) “Primary Care of Complex Hand Injuries”, FESSH Instructional Course Book published by Konstantaras Medical Publications in Athens, Greece, 2010. p. 167-172.**
16. K.N. Malizos, **Z. H. Dailiana**, S.E. Varitimidis  
«*Scaphoid Reconstruction with Pedicled Bone Grafts and Periosteal Flaps*»  
**In Urbaniak JR, Levin LS, Beak GH, Soucacos PN (eds) “Hand Surgery Worldwide: International Reconstruction of a Beautiful and Ready Instrument of Mind”, published by Konstantaras Medical Publications in Athens, Greece, 2011. p. 271-274.**
17. Konstantinos N. Malizos, **Zoe H. Dailiana**, Sokratis E. Varitimidis  
«*Scaphoid Proximal Pole Fractures*»



**In Garcia-Elias M, Mathoulin C (eds) “Articular Injury of the Wrist”, published by Thieme Publishers in Stuttgart, Germany, 2014. p. 46-51.**

**18. Zoe H. Dailiana, Nikolaos Rigopoulos**

*«Infections of the Hand»*

**In G. Bentley (ed) “European Surgical Orthopaedics and Traumatology, The EFORT TEXTBOOK”, published by Springer Berlin Heidelberg, Germany, 2014. p. 2009-2031.**

**19. Polykarpos I. Kiorpelidis, Zoe H. Dailiana, Sokratis E. Varitimidis**

*«Long Term Outcome of Primary Total Knee Arthroplasty. The Effect of Body Weight and Level of Activity»*

**Th. Karachalios (ed) “Total Knee Arthroplasty: Long Term Outcomes”, published by Springer-Verlag London, UK, 2015. p. 55-68.**

**20. Zoe H. Dailiana, Ippolyti Papakostidou, Theofilos S. Karachalios**

*«Quality of Life and Patient’s Satisfaction with Contemporary Designs»*

**In Th. Karachalios (ed) “Total Knee Arthroplasty: Long Term Outcomes”, published by Springer-Verlag London, UK, 2015. p. 255-266.**

**21. Konstantinos N. Malizos, Zoe H. Dailiana, Sokratis E. Varitimidis**

*«Present and future of osteo-articular reconstructions and the role of microsurgery»*

**In Battiston B, Georgescu AV, Soucacos PN (eds) “Frontiers in Microsurgery”, published by Konstantaras Medical Publications in Athens, Greece, 2016. p. 63-68.**

**22. Dailiana Z, Papatheodorou L.**

*«Congenital anomalies of the hand and foot»*

**In Dailiana Z (ed) E-book “MICROSURGERY” with ISBN “978-960-603-151-9” Published by the Greek Academic Electronic Books (www.kallipos.gr), GREECE, 2015. Chapter 6. (GREEK)**

- 23. Dailiana Z, Alexiou K.**  
*«Neonatal brachial plexus palsy»*  
**In Dailiana Z (ed) E-book “MICROSURGERY” with ISBN “978-960-603-151-9**  
**Published by the Greek Academic Electronic Books (www.kallipos.gr), GREECE, 2015.**  
*Chapter 7b. (GREEK)*
- 24. Ignatiadis I, Dailiana Z.**  
*«Peripheral nerve injuries»*  
**In Dailiana Z (ed) E-book “MICROSURGERY” with ISBN “978-960-603-151-9” Published**  
**by the Greek Academic Electronic Books (www.kallipos.gr), GREECE, 2015. Chapter 7c.**  
*(GREEK)*
- 25. Dailiana Z, Papanagiotou M.**  
*«The microsurgery lab»*  
**In Dailiana Z (ed) E-book “MICROSURGERY” with ISBN “978-960-603-151-9” Published**  
**by the Greek Academic Electronic Books (www.kallipos.gr), GREECE, 2015. Chapter 8.**  
*(GREEK)*
- 26. Varitimidis S, Antoniou I, Dailiana Z.**  
*«Microsurgical techniques of nerve reconstruction»*  
**In Dailiana Z (ed) E-book “MICROSURGERY” with ISBN “978-960-603-151-9” Published**  
**by the Greek Academic Electronic Books (www.kallipos.gr), GREECE, 2015. Chapter 12.**  
*(GREEK)*
- 27. Zoe Dailiana, Loukia Papatheodorou**  
*«Triger finger»*  
**In Kontogeorgakos V (ed) “Surgery of Tendons of Upper and Lower Extremity”,**  
**published by Konstantaras Medical Publications in Athens, Greece, 2016 (in press). Chapter**  
**10, p. 81-88. (GREEK)**
- 28. Zoe Dailiana, Nikolaos Karamanis**

«*Posterior Tibialis Tendon Transfer for the treatment of Paralytic Footdrop*»

**In Kontogeorgakos V (ed) “Surgery of Tendons of Upper and Lower Extremity”, published by Konstantaras Medical Publications in Athens, Greece, 2016 (in press). Chapter 36, p. 271-76. (GREEK)**

**29. Zoe Dailiana, Ioannis Antoniou**

«*Peripheral Nerve Injuries*»

**In Fountas K. (ed) “General Principles of Neurosurgery”, ISBN “978-960-6802-76-8” Konstantaras Medical Publications in Athens, Greece, 2016 (in press). (GREEK)**

**30. Zoe Dailiana, Ioannis Antoniou**

«*Peripheral Nerve Entrapment Syndromes: Surgical treatment*»

**In Fountas K. (ed) “General Principles of Neurosurgery”, ISBN “978-960-6802-76-8” Konstantaras Medical Publications in Athens, Greece, 2016 (in press). (GREEK)**

## BOOK

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Zoe Dailiana, MD PhD, is member of FESSH Hand Trauma Committee. She is a specialist trained Hand Surgeon, and Professor of Orthopaedic Surgery at the University of Thessalia, in Larissa, Greece. Dr Dailiana is the past President of the Hellenic Society for Reconstructive Microsurgery. Her main fields of interest are peripheral nerve surgery, upper extremity nonunions/skeletal defects reconstruction and basic science on bone/periosteal flaps, GFs and BMPs. Igor Golubev, MD, PhD. He is a head of Microsurgery and Hand Trauma Department in National Medical Research Centre of Traumatology and Ortho (UPMC) Passavant, Pittsburgh, PA, USA Zoe H. Dailiana, MD Department of Orthopaedic Surgery, Faculty of Medicine, University of Thessaly, Larissa, Greece Nickolaos A. Darlis, MD Metropolitan Hospital, Athens, Greece Margaret Woon Man Fok, MBChB (Otago) Department of Orthopaedics and Traumatology, Queen Mary Hospital, The University of Hong Kong, Hong Kong, China John R. Fowler, MD Department of Orthopaedics, University of Pittsburgh Medical Center Vasileios A. Kontogeorgakos, MD, PhD Department of Orthopaedic Surgery, Attikon University Hospital, National and Kapodistrian University of Athens, Athens, Greece. Konstantinos Kourkoutas, MD Hand, Upper Limb and Microsurgery Center, Athens Medical Center, Athens, Greece. Dailiana Zoe MD, PhD. Professor of Orthopaedic Surgery, Medical School, University of Thessaly, Panepistimiou st. 3, Biopolis 41110, Larissa, Greece. Demiri Efterpi C. Zoe H. Dailiana Md PhD, Vasileios A. Kontogeorgakos Md, Sokratis E. Varitimidis Md PhD. Medical School, University of Thessaly, Larissa, Greece. Introduction.