

MEDICAL BOARD STAFF REPORT

DATE REPORT ISSUED: June 16, 2016
ATTENTION: Application Review and Special Programs Committee
SUBJECT: Review of an Application for a Spine Surgery Fellowship
Program Pursuant to Business and Professions Code
Section 2112
STAFF CONTACT: Curtis J. Worden, Chief of Licensing

REQUESTED ACTION:

After review and consideration, the Application Review and Special Programs Committee (ARSPC) should make a recommendation to the Chief of Licensing on whether to approve Kaiser Permanente Hospital – Oakland’s (Kaiser Oakland) request for an Orthopedic Spine Surgery Fellowship Program pursuant to California Business and Professions Code (BPC) section 2112 (Attachment 7) and Title 16, Division 13, California Code of Regulations (CCR) section 1325.5 (Attachment 8).

STAFF RECOMMENDATION:

Staff has determined Kaiser Oakland meets the minimum requirements for a Spine Surgery Fellowship and recommends the ARSPC make a recommendation to the Chief of Licensing to approve Kaiser Oakland’s request for an Orthopedic Spine Surgery Fellowship pursuant to BPC section 2112 and CCR section 1325.5 without a site visit.

BACKGROUND:

The Licensing Program is responsible for administering special programs pursuant to BPC sections 2072, 2073, 2111, 2112, 2113, 2168 and CCR sections 1325.5 and 1327.

Pursuant to BPC 2112 the sponsoring hospital must submit an application on behalf of the proposed postgraduate trainee. The hospital must be accredited by the Joint Committee on Accreditation of Healthcare Organizations. In addition, the supervising physician must be licensed in California, board certified, and recognized as clearly outstanding in the field of medicine in which the fellow is to be trained. The proposed postgraduate trainee must be under the direction and supervision at all times by this physician.

The BPC section 2112 registration for the physician participant is for a one-year period and may be renewed annually upon request by the sponsoring hospital, but may not be renewed more than four times. In addition, CCR section 1325.5 further identifies specific requirements that the sponsor hospital must meet to qualify for approval pursuant to BPC section 2112.

Kaiser Oakland is the founding hospital of the Kaiser Permanente health care system and has limited affiliations with the University of California, San Francisco and University of California, Davis for medical school training. Kaiser Oakland has the following Accreditation Council for Graduate Medical Education (ACGME) accredited postgraduate training programs: general surgery, internal medicine, obstetrics and gynecology, otolaryngology and pediatrics. In addition, Kaiser Oakland has an affiliation with St. Mary's Hospital and Medical Center Program Orthopaedic Surgery Program, ACGME Accreditation (No. 2600522108) as a participating institution.

The Orthopedic Spine Surgery Fellowship Program at Kaiser Oakland, under Dr. Ravinder S. Baines, Chief of the Regional Center for Orthopedic Spine Surgery, states the fellowship will provide training in the surgical management of spinal disorders. The emphasis will be on clinical consultation, operative management, preoperative and postoperative care. The educational goals of the fellowship will allow the Board-approved fellowship registrant to evaluate and diagnose non-operative and operative treatment of spinal disorders in children and adults, and manage and follow patients in an outpatient setting.

The fellow will be learning how to make surgical decisions regarding spine surgery along with understanding the complications of spine surgery and the type of rehabilitation that will be needed after spine surgery. Kaiser Oakland's Orthopedic Spine Surgery Fellowship Program will allow the fellow to be trained in several areas, such as reading and interpreting spinal imaging studies, performing spines examinations, clinical measurement and assessment of spinal deformity, grafting techniques in spinal surgery, and spinal instrumentation, along with recognizing the risks and potential benefits of each treatment intervention.

The fellow will be participating in educational case conferences and mortality/morbidity reviews. The fellow's duties will include rounding with supervising staff providing information on patients he/she has provided care to and be the primary assistant in the operating room to the lead surgeon. The fellow will be responsible in the follow-up management of the patient during the post-op period with the physician assistants and hospitalist/internist. The fellow will see patients with the attending physicians approximately one and a half days a week and present research projects at meetings.

The fellow will only perform clinical duties within Kaiser Oakland and under the direct supervision of Dr. Bains and the other designated supervisors. The fellow will be subject to institutional standard disciplinary guidelines including surveillance and actions by Kaiser Oakland's Quality Assurance Committee.

The Orthopedic Spine Surgery Fellowship at Kaiser Oakland is requesting the Board's approval of the proposed program pursuant to BPC section 2112.

Note: Kaiser Oakland has recruited and selected an applicant physician for the fellowship pending approval of the BPC section 2112 Orthopedic Spine Surgery Fellowship.

Site Visit Background Information

The Board conducted a site visit at Kaiser Oakland for the currently approved Pediatric Neurosurgery Fellowship Program on August 22, 2011. The recommendation was made by the Special Programs Committee (SPC) Members at the April 2011 SPC meeting after review of the submitted documentation by Kaiser Oakland. The site team consisted of the Board's legal counsel, Board's medical consultant, chief of licensing and licensing manager. Kaiser Oakland's BPC 2112 request was approved.

Staff is recommending approval of Kaiser Oakland's request for the BPC section 2112 Orthopedic Spine Surgery Fellowship Program without a site visit.

Attachments:

1. Kaiser Oakland - Dr. Baines's request to the Board for approval and Fellowship description, date 16 October 2015
2. Ravi S. Bains, M.D., Curriculum Vitae, P&S License, ABMS
3. Dachling Pang, M.D., Curriculum Vitae, Faculty Appointment, P&S License, ABMS
4. Josef E. Gorek, M.D., Curriculum Vitae, P&S License, ABMS
5. Krammie M. Chan, M.D., Curriculum Vitae, P&S License, ABMS
6. Balaram Puligandla, M.D., FCAP, Curriculum Vitae, P&S License, ABMS
7. Business and Professions Code Section 2112
8. California Code of Regulation Section 1325.5

ATTACHMENT 1

The Permanente Medical Group, Inc.
East Bay Area

Judith Park, M.D.
Physician-in-Chief

John R. Loftus, M.D.
Physician-in-Chief

Shirley Steinback, R.N.
Medical Group Administrator

Alameda Campus
2417 Central Ave.
Alameda, CA 94501
(510) 752-9200

Oakland Campus
280 W. MacArthur Blvd.
Oakland, CA 94611
(510) 752-1000

Richmond Campus
901 Nevin Ave.
Richmond, CA 94801
(510) 307-1500

16 October 2015

Medical Board of California
Special Programs Coordinator
2005 Evergreen Street, Suite 1200
Sacramento, CA 95815-3831

Dear Mr. Egeston;

I am writing to request the Medical Board of California consider and approve the application of Dr. Mayur Kardile (D.O.B. 5 September 1986) as the inaugural international trainee in our Spine Surgery Fellowship Program at Kaiser Permanente Oakland Medical Center for the 2016-2017 year. We have been training Orthopedic Spine Surgery Fellows in our institution since 2007 and Dr. Kardile will be our first International Fellow. Details of the Fellowship program, the training environment, and our respective professional qualifications are provided in accompanying documentation including the curriculum vitae of Dr. Pang, Dr. Kardile, and myself.

Currently Dr. Mayur Kardile holds appointment as a licensed medical doctor and lecturer at the Sancheti Institute of Orthopedics and Rehabilitation in Pune, India. Dr. Kardile's medical training includes degrees from Krishna Institute of Medical Sciences (Maharashtra University of Health Sciences) Bachelor of Medicine and Bachelor of Surgery (2009) and Master of Surgery in Orthopedics (2013). His post graduate medical training consisted of an internship in Medicine (2010), and Residency in Orthopedics (2014). Dr. Kardile also completed a fellowship in Spine Surgery (2015) in India. His examinations and certifications include Steps 1, 2CK, and 2 CS of the USMLE (2012-2015). Based on his past training, performance, and qualifications, Dr. Kardile is clearly well-prepared and able to assume the clinical responsibilities as the Orthopedic Spine Surgery Fellow.

If approved by the Board as the Orthopedic Spine Surgery Fellow, Dr. Kardile will perform his clinical duties at all times within Kaiser Permanente Oakland Medical Center under the direct supervision of myself or one of my six partners, Dr. Andrew Slucky, Dr. Timothy Huang, Dr. Josef Gorek, Dr. Kamran Majid, and Dr. Todd Lincoln. All partners within our department are full time, California- licensed, and Board- certified Orthopedic Spine Surgeons. All of Dr. Kardile's professional activities as an Orthopedic Spine Surgery Fellow will be within the scope and limitations of Section 2112 of the California Business and Professions Code. As a trainee, Dr. Kardile will also be subject to our institutional standard disciplinary guidelines including surveillance and actions by the hospital's Quality Assurance Committee.



KAISER PERMANENTE.

**The Permanente Medical Group, Inc.
East Bay Area**

Judith Park, M.D.
Physician-in-Chief

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2417 Central Ave.
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Richmond, CA 94801
(510) 307-1500

I hope this letter and Dr. Kardile's application meets with your approval. I welcome your inquiries and look forward to hearing from you. I can be reached directly at (510) 752-6575, via email at Ravi.S.Bains@kp.org, or thru Jane Prather, (510) 752-7040.

Sincerely;



Ravinder S. Bains, MD
Chief, Regional Center for Orthopedic Spine Surgery
Kaiser Permanente, Oakland Medical Center



KAISER PERMANENTE

KAISER PERMANENTE ORTHOPEDIC SPINE SURGERY FELLOWSHIP PROGRAM

Goals and Objectives

The Orthopaedic Spine Surgery fellowship provides training in the surgical management of spinal disorders. Our emphasis will be on: clinic consultation, operative management, pre-operative and postoperative care, and some non-operative management.

The educational goals of the spinal surgery fellowship program are to:

1. Provide the education in the evaluation, diagnosis, non-operative and operative treatment of spinal disorders in children and adults.
2. Allow the spine fellow to evaluate, manage, and follow patients in an outpatient setting.
3. Educate the fellows in surgical decision-making to obtain the most optimal outcome.
4. Educate the fellow in the complications of spine surgery and the management of these complications and rehabilitation required to obtain an optimal outcome.
5. Educate the fellow in how to use outcome assessments, such as the Oswestry disability index, the Neck disability index, the visual analogue scale (VAS) and SRS-22 and SF-36 and others in clinical practice and in performing outcomes research.

Requirements

1. Board eligible/certified in orthopedic surgery or neurosurgery
2. Obtain and maintain California State Licensure (4-6 month process)
3. Have hospital privileges at the institutions listed above (3+ month process)
4. For International Fellows - license to practice orthopedic surgery or neurosurgery in country of residence

Curriculum

The Curriculum will involve the following:

1. Learn the key decision points in the patient's subjective complaints and medical history.
2. Understand the interpretive value of diagnostic tests and procedures.
3. Read and interpret spinal imaging studies.
4. Perform a thorough and efficient spine examination.
5. Understand the natural history of common spinal disorders and injuries.

6. Understand the surgical treatment options of common spinal disorders and injuries.
7. Recognize the risks and potential benefits of each treatment intervention.
8. Become familiar with the surgical anatomy of the spine.
9. Understand the principles involved in specific surgical procedures.
10. Learn the post-operative care and rehabilitation of spinal injuries and operations.
11. Recognize the potential late consequences of spinal procedures and injuries
12. Learn the emergent management of spinal cord injuries.
13. Learn the preoperative and perioperative techniques or principles involved in the management of patients with unstable spine lesions.
14. Become proficient in surgical approaches to the spine from the occiput to the sacrum, anterior and posterior.
15. Become proficient in decompression and resection techniques in anterior and posterior spinal surgery.
16. Become proficient in spinal instrumentation, including anterior and posterior instrumentation from the occipital cervical junction to the sacrum.
17. Become proficient in grafting techniques used in spinal surgery.
18. Understand biologic processes involved in spinal fusion.
19. Understand biomechanical characteristics of spinal implants.
20. Understand host-tissue - implant interactions of biomaterials used in spinal surgery.
21. Understand principles observed in spinal surgery for traumatic injuries.
22. Understand principles observed in spinal surgery for degenerative conditions.
23. Understand principles observed in spinal surgery for deformity.
24. Become proficient in clinical measurement and assessment of spinal deformity.
25. Become proficient in radiographic measurement and assessment of spinal deformity.
26. Be able to become proficient in structure sparing surgery/minimally invasive surgery with percutaneous screws.

Duties and Responsibilities:

The fellow will work with 6 very experienced spine surgeons. During the clinical year, the fellow will round on patients he/she participated in their care, and then go to the operating room. In the operating room the fellow will function as a primary assistant: position patient, follow the primary surgeon's lead in the operating room and then follow up in the management of the patient in the immediate post op period with the physician assistants and the hospitalist/internist.

In clinic: see patients and present to attendings and follow post-op patients with the attending. Clinic time approx. 1.5 days per week.

Research: Present 1-2 research project at a national meeting.

Supervision:

The spine fellow will be supervised by the 6 full-time spine attendings at the hospital.

The fellow will be expected to also work with the Hospitalist who will be managing the medical problems of the spine patients.

ATTACHMENT 2

Ravi S. Bains, MD

3600 Broadway, Suite 15
Oakland, CA 94611
510-752-6565



Personal information

Education

1989 – 1993	U.S.C. School of Medicine, Los Angeles CA Deg: MD 1993
1985 – 1988	U.C.Davis, Davis CA Deg: BSc Genetics 1988
1984 – 1985	San Jose State University, CA
1980 – 1984	Silver Creek High School, San Jose, CA

Professional Experience

2006 - Present	Kaiser Permanente, Oakland, CA	- Chief of Regional Spinal Surgery Dept.
2001 - 2006	Kaiser Permanente, Oakland, CA	- Staff Spine Surgeon
2000 - 2001	U.C.Davis Med. Ctr, Sacramento, CA	- Spine Surgery Fellow
1994 - 2000	LAC+USC Med. Ctr, Los Angeles, CA	- Orthopaedic Surgery Resident
1993 – 1994	LAC+USC Med. Ctr, Los Angeles, CA	- General Surgery Internship

Humanitarian Service/Volunteer

- March 2015 Jalandhar, Punjab India *with* Standing Straight (*Surgeon Lead*)
- September 2014 Nairobi, Kenya *with* Nuvasive Spine Foundation (*Surgeon Lead*)
- July 2013 Trinidad, Trinidad *with* Operation Rainbow (*Surgeon Lead*)
- July 2012 Guatemala City, Guatemala *with* Operation Rainbow (*Surgeon Lead*)
- July 2011 Lima, Peru *with* Operation Rainbow (*Surgeon Lead*)
- June 2010 Esteli, Nicaragua *with* Operation Rainbow
- June 2009 Guatemala City, Guatemala *with* Operation Rainbow

Research

- Clinical Study Protocol for the Clinical Investigation of the Kineflex – Lumbar Spinal System
Sponsor: Spinal Motion, Inc.
Role: Principal Investigator

- Clinical Study Protocol for the Clinical Investigation of the Kineflex – Cervical Spinal System
Sponsor: Spinal Motion, Inc.
Role: Principal Investigator

Publications

- Barami K, Lincoln T, **Bains R**. Experience with Transforaminal Interbody Fusion in Corrective Surgery for Adolescent Idiopathic Scoliosis. J Clin Neurosci. 2013 Sep;20(9):1256-8. doi:10.1016/j.jocn.2012.12.007. Epub 2013 May 20. Review.
- Musante DB, **Bains RS**, Herkowitz HN et al. Comparison of Radiographic Findings of Total Disc Replacement vs. Anterior Cervical Fusion: 24-Month Follow-up from a Prospective, Randomized, Controlled, Multicenter Trial with 269 Patients. The Spine Journal - September 2010 (Vol. 10, Issue 9, Supplement, Pages S32-S33, DOI: 10.1016/j.spinee.2010.07.093).
- Guyer RD, **Bains RS** et al. Radiographic Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Controlled Multicenter FDA-Regulated Trial. The Spine Journal - September 2010 (Vol. 10, Issue 9, Supplement, Pages S12-S13, DOI: 10.1016/j.spinee.2010.07.039).
- Guyer RD, **Bains RS** et al. Direct Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Multicenter FDA-Regulated Trial. The Spine Journal - September 2010 (Vol. 10, Issue 9, Supplement, Page S11, DOI: 10.1016/j.spinee.2010.07.036).
- Guyer RD, Coric D, **Bains RS**, Herkowitz HN et al. Prospective, Randomized, Multicenter Trial Comparing Cervical Total Disc Replacement to Anterior Cervical Fusion in 269 Patients: 24-month Follow-up. The Spine Journal - September 2010 (Vol. 10, Issue 9, Supplement, Pages S41-S42, DOI: 10.1016/j.spinee.2010.07.117).
- **Bains RS**, Althausen P, Gitlin G et al. The Role of Acute Decompression and Restoration of Spinal Alignment in Prevention of Post-Traumatic Syringomyelia: A Case Report and Review of Recent Literature. Spine, 26: E399-E402, 2001
- Thordarson DB, **Bains RS**, Shepherd LE. The Role of Arthroscopy on the Surgical Management of Ankle Fractures. Foot & Ankle International, 22: 123-125, 2001
- Patzakis MJ, **Bains RS**, Lee J et al. Prospective, Randomized Double Blind Study Comparing Single-Agent Antibiotic Therapy, Ciprofloxacin, to Combination Antibiotic Therapy in Open Fracture Wounds. J. Orthop Trauma; 14(8): 529-33, 2000
- **Bains RS**, Seidman D, Choi S, Engler G. Fracture-Dislocation of the Thoracolumbar Spine with Complete Paraplegia. Spinal Frontiers, 4:1-3, 1997
- Rao R, **Bains RS**, Lum, G. Acute Traumatic Vertical Axis Dislocation of the Patella. Orthopaedics, 20:713-715, 1997
- Patzakis MJ, **Bains RS**, Lee J et al. A Prospective Randomized Double Blind Study Comparing Single Agent Antibiotic Therapy, Ciprofloxacin, to Combination Antibiotic Therapy in Open Fracture Wounds. Ortho. Trans. 20:25, 1996

Scientific Podium Presentations

- Bone Morphogenetic Protein (BMP-2) Usage and Cancer Correlation: An Analysis of 10,416 Spine Fusion Patients from a Multi-Center Spine Registry., **RS Bains MD**, LK Mitsunaga MD, Y Chen, K Majid, MD, KH Guppy, MD, PhD, J Harris, MS, RD, JL Alvarez, MPH, LW Paxton. ISASS15 International Society for Advancement of Spine Surgery. San Diego, California. April 15-17, 2015
- Postoperative Spine Dressing Changes are Unnecessary: Our 15-Year Experience with an Institutional Dressing Change Protocol. LK Mitsunaga, MD, S Bains, N Singh, K Majid, MD, **RS Bains, MD**. ISASS15 International Society for Advancement of Spine Surgery. San Diego, California. April 15-17, 2015
- Postoperative Spine Dressing Changes are Unnecessary: Our 15-Year Experience with an Institutional Dressing Change Protocol. LK Mitsunaga, MD, S Bains, N Singh, K Majid, MD, **RS Bains, MD**. North American Spine Society 29th Annual Meeting, San Francisco, California. November 12-15, 2014
- Bone Morphogenetic Protein (BMP-2) Usage and Cancer Correlation: An Analysis of 10,416 Spine Fusion Patients from a Multi-Center Spine Registry. LK Mitsunaga, MD, **RS Bains, MD**, Y Chen, K Majid, MD, KH Guppy, MD, PhD, J Harris, MS, RD, JL Alvarez, MPH, LW Paxton. 49th Annual Meeting and Course Scoliosis Research Society. Anchorage, Alaska. September 10-13 2014
- Postoperative Spine Dressing Changes are Unnecessary: Our 15-Year Experience with an Institutional Dressing Change Protocol. LK Mitsunaga, MD, S Bains, N Singh, K Majid, MD, **RS Bains, MD**. IMAST 21st International Meeting on Advanced Spine Techniques. Valencia, Spain. July 16-19, 2014
- Does Chronic Kidney Disease Affect the Mortality Rate in Patients Undergoing Instrumented Spine Fusion? Long Term Follow-up of a Multi-Center Spinal Registry. LK Mitsunaga, MD, K Majid, MD, J Alvarez, Y Chen, J Harris, L Paxton, **RS Bains, MD**. IMAST 21st International Meeting on Advanced Spine Techniques. Valencia, Spain. July 16-19, 2014
- Bone Morphogenetic Protein (BMP-2) Usage and Cancer Correlation: An Analysis of 10,416 Spine Fusion Patients from a Multi-Center Spine Registry. LK Mitsunaga, MD, **RS Bains, MD**, Y Chen, K Majid, MD, KH Guppy, MD, PhD, J Harris, MS, RD, JL Alvarez, MPH, LW Paxton. Fourth World Congress of Minimally Invasive Spine Surgery and Techniques. Paris, France. June 11-24, 2014
- Analysis of Risk Factors Associated with Post-Operative Acute Myocardial Infarction in Spine Surgery. Andrew V. Slucky, MD; **Ravi S. Bains, MD**; Timothy Huang, MD. SRS 44th Annual Meeting San Antonio, Texas September 23-26, 2009
- Are Postoperative Dressing Changes Necessary? **Ravi S. Bains, MD**; Cary Idler, MD; Andrew V. Slucky, MD; Timothy Huang, MD; Kurt Van Peteghem; Josef Gorek, MD. SRS 44th Annual Meeting San Antonio, Texas September 23-26, 2009
- Accuracy of Percutaneous Lumbar Pedicle Screw Placement using the Oblique or Owl's Eye View: Society for Minimally Invasive Spine Surgery Annual Meeting, 2008.
- Delayed Dressing Change Does Not Lead to Increased Infection Rate: SRS – International, New Delhi, India, 2008

- The Role of Ankle Arthroscopy in the Surgical Management of Ankle Fractures: Annual American Foot and Ankle Society, 1999.
- A Prospective Randomized Double Blind Study Comparing Single Agent Antibiotic therapy, Ciprofloxacin, to Combination Therapy in Open Fracture Wounds : 63rd Annual AAOS, Atlanta Georgia, 1996
- Use of a Hyaluronic Acid coated Sheath in the Prevention of Flexor Tendon Adhesions: An Experimental Study in the Rat: ASSH, Marco Island FL, 1995

Scientific Posters

- Postoperative Spine Dressing Changes are Unnecessary: Our 15-Year Experience with an Institutional Dressing Change Protocol. LK Mitsunaga, MD, S Bains, N Singh, K Majid, MD, **RS Bains, MD**. Fourth World Congress of Minimally Invasive Spine Surgery and Techniques. Paris, France. June 11-24, 2014
- Does Chronic Kidney Disease Affect the Mortality Rate in Patients Undergoing Instrumented Spine Fusion? Long Term Follow-up of a Multi-Center Spinal Registry. LK Mitsunaga, MD, K Majid, MD, J Alvarez, Y Chen, J Harris, L Paxton, **RS Bains, MD** Fourth World Congress of Minimally Invasive Spine Surgery and Techniques. Paris, France. June 11-24, 2014
- The Long-Term Outcome of Pediatric Vertebral Column Resection (VCR). **RS Bains, MD**; Nicholas Pirnia, MD. 18th International Meeting on Advanced Spine Techniques IMAST Copenhagen, Denmark July 13-16, 2011
- Analysis of Risk Factors for Surgical Site Infection in Spinal Surgery. Cary Idler, MD; Gregory J. DeBlasi, MD; Josef Gorek; Timothy Huang, MD; Peter K. Van Peteghem, MD; **RS Bains, MD**. 17th International Meeting on Advanced Spine Techniques • Toronto, Canada. July 21-24, 2010
- Accuracy of Percutaneous Lumbar Pedicle Screw Placement Using the "Owl's Eye" View and Novel Guidance Technology. Cary Idler, MD; Kevin W. Rolfe, MD, MPH; **RS Bains, MD**; Josef Gorek. 17th International Meeting on Advanced Spine Techniques • Toronto, Canada. July 21-24, 2010
- Analysis of Risk Factors Associated with Post-Operative Acute Myocardial Infarction in Spinal Surgery: CSRS; Austin, Texas, December 2008
- Use of BMP- 2 in Posterior Cervical Spine: IMAST; Hong Kong, 2008
- Delayed Dressing Change Does Not Lead to Increased Infection Rate: IMAST; Hong Kong, 2008
- Use of BMP- 2 in Posterior Cervical Spine is Safe and Effective: Annual Spineweek; Geneva, 2008

Invitational Lectures

- Posterior Vertebral Column Resection (PVCR) in Medical Missions: 2015 PVCR Summit Forum; Kunming, China June 12-14, 2015
- Lumbar Total Disc Replacement: TPMG Advanced Spine Medicine Conference; Berkeley, CA – September 26, 2008

- Upcoming Arthroplasty Products: TPMG Spine Medicine meeting; Oakland, CA - June 2, 2006
- Thoracolumbar Fractures: AO ASIF Nursing Continuing Education; Reno, NV - September 17, 2005
- Lumbar Total Disc Replacement: TPMG Advanced Spinal Medicine meeting; Oakland, CA - September 16, 2005
- The Surgical Management of Neuromuscular Deformity: Spinal Skeletal Solutions: A Global Perspective; Maui, Hawaii - January 29, 2004
- Acute Back Problems: 26th Annual Fingers and Toes Conference; Stanford Sierra camp, Fallen Leaf Lake, CA - June 11, 2002
- Decompression and Transvertebral fixation of Treatment of High Grade Spondylolisthesis: Graduate Research Symposium; UC Davis Medical Center, CA - June 21, 2001
- Cervical Spondylosis: Grand Rounds; UC Davis Medical Center, CA - June 11, 2001

Awards

- Edwin R. Guise Memorial Junior Paper Award, June 17-18, 1999 @ University of Southern California, Graduate Orthopaedic Society.

Professional Memberships

- American Academy of Orthopaedic Surgery, member since 2000
- California Medical Association, member since 1993
- Alameda County Medical Association, member since 2002
- California Orthopaedic Society, member since 1998

Boards/Licensure

- Emmi Solutions Medical Advisory Board since April 2013
- American Board of Orthopaedic Surgery since July 2003
- License No.: G079821, issued by Medical Board of California on Aug., 94
- DEA No.: BB4317447, issued by U.S. Dept. of Justice on Jan., 95

Teaching

- 2001-2008: Clinical Instructor at U.C.Davis Medical Center, Dept of Orthopaedics.



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License Number: 79821**Current Date: 06/17/2016 11:09 AM**

Name:	BAINS, RAVINDER-RAJ SINGH
License Type:	Physician and Surgeon G
License Status:	License Renewed & Current
Expiration Date:	04/30/2018
School Name:	CA006 - UNIVERSITY OF SOUTHERN CALIFORNIA KECK S
Date of Graduation:	01/01/1993
Original Issuance Date:	09/14/1994

Addresses

Address of Record (Required)	Address
	Regional Spine Surgery Dept 275 W MacArthur Blvd, Suite 15 OAKLAND, CA ALAMEDA 94611-5641 United States View on a map

Survey Information

The following information is self-reported by the licensee and has not been verified by the Board.

Are you retired?	No
Activities in Medicine	Administration - 1-9 Hours Patient Care - 40+ Hours Research - 1-9 Hours Teaching - 1-9 Hours Telemedicine - 10-19 Hours
Patient Care Practice Location	Zip: 94611 County: ALAMEDA
Patient Care Secondary Practice Location	Not identified
Telemedicine Practice Location	Zip: 94611 County: ALAMEDA
Telemedicine Secondary Practice Location	Not identified
Current Training Status	Not in Training
Areas of Practice	Spine Surgery - Secondary
Board Certifications	American Board of Orthopaedic Surgery - Orthopaedic Surgery
AOA Board Certifications	No AOA board certifications identified
Postgraduate Training Years	7 Years

Survey Information

The following information is self-reported by the licensee and has not been verified by the Board.

Cultural Background	Declined to Disclose
Foreign Language Proficiency	Declined to Disclose
Gender	Male

Public Record Actions

Administrative Disciplinary Actions	None found
Court Order	None found
Misdemeanor Conviction	None found
Probationary License	None found
Felony Conviction	None found
Malpractice Judgment	None found
Hospital Disciplinary Action	None found
License Issued with Public Letter of Reprimand (Non-Disciplinary)	None found
Administrative Citation Issued	None found
Administrative Action Taken by Other State or Federal Government	None found
Arbitration Award	None found
Malpractice Settlements	None found

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Ravinder-Raj Singh Bains (ABMSUID - 753856)

Viewed:6/17/2016 2:21:22 PM CST

DOB: Private
Education: 1993 MD (Doctor of Medicine)
Address: The Permanente Medical Group
 280 W Macarthur Blvd
 Oakland, CA 94611-5642 (United States)

Individual NPI ¹ :

Show Active Medical License(s) ² :

Certification:



American Board of Orthopaedic Surgery

Orthopaedic Surgery - General

Status: Certified

Status	Duration	Occurrence	Start Date - End Date	Participating in MOC
Active	Time-Limited	Recertification	01/01/2014 - 12/31/2023	Yes
Expired	Time-Limited	Initial Certification	07/11/2003 - 12/31/2013	

Learn more about Orthopaedic Surgery MOC program

¹ NPI: Not for Primary Source Verification (PSV).

² State of Licensure provided by Federation of State Medical Boards (FSMB): Not for Primary Source Verification (PSV).



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ATTACHMENT 3

CURRICULUM VITAE

25th June, 2015

NAME: Dachling Pang, M.D., FRCS(C), FRCS(Eng), FACS,

BUSINESS ADDRESS: Department of Paediatric Neurosurgery
Kaiser Permanente Hospital
280 West Mac Arthur Blvd
Oakland, CA 94611

BUSINESS PHONE:

HOME ADDRESS:

E-MAIL:

EDUCATION AND TRAINING

UNDERGRADUATE

1965 - 1968	Dalhousie University Halifax, Nova Scotia Canada	B.S. Physiology and Biophysics
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GRADUATE

1968 - 1972	University of Toronto Toronto, Canada	M.D.
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POSTGRADUATE

June 1972-June 1973	Toronto General Hospital Toronto, Canada	Intern Surgery
July 1973-December 1973	Toronto Western Hospital Toronto, Canada	Resident, Orthopedic Surgery
January 1974-June 1974	Sunny Brook Hospital Toronto, Canada	Resident, Neurosurgery

POSTGRADUATE (continued):

July 1974-December 1974	St. Michael's Hospital Toronto, Canada	Resident, General Surgery
January 1975-June 1975	Toronto Western Hospital Toronto, Canada	Resident, Cardiovascular Surgery
July 1975-December 1975	Toronto General Hospital Toronto, Canada	Resident, Neurosurgery
January 1976-June 1976	Toronto Western Hospital Toronto, Canada	Resident, Neuropathology
July 1976-December 1976	Mt. Sinai Hospital Toronto, Canada	Resident, Neurology
January 1977-June 1977	St. Michael's Hospital Toronto, Canada	Chief Resident, Neurosurgery
July 1977-December 1977	Toronto General Hospital Toronto, Canada	Chief Resident, Neurosurgery
January 1978-June 1978	Hospital for Sick Children Toronto, Canada	Chief Resident, Pediatric Neurosurgery
July 1978-December 1978	Hospital for Sick Children Toronto, Canada	Clinical Fellow, Pediatric Neurosurgery

AWARDS AND HONORS

- 1966 University Scholarship, Dalhousie University, Halifax, Nova Scotia
- 1967 Ross Stewart Smith Scholarship for Aggregate, Dalhousie University
- 1967 MacDonald Physics Prize, First in Theoretical Physics, Dalhousie University
- 1968 Avery Prize, Highest Honors Graduate of 1968, Dalhousie University

AWARDS AND HONORS, continued:

- 1969 Walter F. Watkins Scholarship, University of Toronto
- 1971 Medical Alumni Scholarship, University of Toronto
- 1972 Elected Member, Alpha Omega Alpha Honors Medical Society
- 1989 Award for best paper on hydrocephalus and related matters, by the Hydrocephalus Foundation of America

CERTIFICATION AND LICENSURE

- 1973 Licensure of the Medical Council of Canada (LMCC)
- 1978 Fellow of the Royal College of Surgeons of Canada, F.R.C.S.(C)
- 1978 Specialist Certification in Neurosurgery, Royal College of Surgeons of Canada
- 1979 Medical Practice License, Commonwealth of Pennsylvania
- 1981 Fellow of the American College of Surgeons (FACS)
- 1984 Diplomate of the American Board of Neurological Surgery
- 1992 Diplomate of the American Board of Paediatric Neurological Surgery
- 1993 Medical Practice License, State of California
- 2003 Medical Practice License, General Medicine Council, United Kingdom
- 2003 Specialist Certification in Paediatric Neurosurgery, Royal College of Surgeons of England.

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

- 1971 Elected Member, Alpha Omega Alpha Honors Medical Society
- 1972 Member, Ontario Medical Society, Toronto, Canada
- 1972 Fellow, Royal College of Physicians and Surgeons, Ottawa, Canada

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES, continued:

- 1979 Member, Pittsburgh Neuroscience Society
- 1979 Member, International Society of Pediatric Neurosurgeons
- 1980 Member, American Association of Neurological Surgeons
- 1981 Member, Research Society of Neurosurgeons
- 1982 Member, Congress of Neurological Surgeons
- 1982 Elected Fellow, American College of Surgeons (F.A.C.S.)
- 1985 Member, Joint Section on Trauma, AANS/CNS
- 1985 Member, Pediatric Section, American Association of Neurological Surgeons
- 1985 Member, Lumbar Spine Association, AANS/CNS
- 1986 Member, Professional Advisory Board, National Head Injury Foundation, Pennsylvania Association
- 1986 Member, American Society of Paediatric Neurosurgeons
- 1999 Honorary Member, Neurosurgical Society of Hong Kong

ACADEMIC APPOINTMENTS

July 1993-Present	University of California, Davis School of Medicine 4860 Y Street #3740 Sacramento, CA 95817	Professor and Chief of Paediatric Neurosurgery
April, 2012 – Present	Nanjing Medical University Nanjing, China	Adjunct Professor Neurosurgery
2009 till present	Sun Yat-Sen University Guangzhou, China.	Honorary Professor Neurosurgery
2009 till present	University of Cape Town Cape Town, South Africa	Visiting Professor Neurosurgery

ACADEMIC APPOINTMENTS continued:

March 1999- Present	Regional Centre for Paediatric Neurosurgery 280 West MacArthur Blvd. Oakland, CA 95611	Chief of Paediatric Neurosurgery,
June 1991-June 1993	University of Pittsburgh School of Medicine Pittsburgh, Pennsylvania	Professor and Chief of Paediatric Neurosurgery
July 1985-June 1991	University of Pittsburgh School of Medicine Pittsburgh, Pennsylvania	Associate Professor and Chief of Paediatric Neurosurgery
January 1979-June 1985	University of Pittsburgh School of Medicine Pittsburgh, Pennsylvania	Assistant Professor Neurosurgery

STAFF POSITIONS

June 2014 – Present	Great Ormond Street Hospital for Children, NHS. London. United Kingdom	Honorary Consultant Paediatric Neurosurgery
March 1999 – Present	Regional Center for Paediatric Neurosurgery Kaiser Permanente Foundation Hospitals Northern California	Chief of Paediatric Neurosurgery
July 1993-March 1999	University of California, Davis School of Medicine Sacramento, California	Chief of Paediatric Neurosurgery
January 1987-1992	Children's Hospital of Pittsburgh Pittsburgh, Pennsylvania	Chief of Paediatric Neurosurgery
January 1979-1986	Children's Hospital of Pittsburgh	Attending Neurosurgeon
January 1979-June 1993	Presbyterian-University Hospital Pittsburgh, Pennsylvania	Attending Neurosurgeon
January 1979-June 1993	Veterans Administration Hospital Pittsburgh, Pennsylvania	Attending Neurosurgeon

STAFF POSITIONS continued:

January 1980-June 1993	Rehabilitation Institute Pittsburgh, Pennsylvania	Consulting Staff Neurosurgeon
May 1982-June 1993	Montefiore Hospital Pittsburgh, Pennsylvania	Attending Neurosurgeon

ADMINISTRATIVE POSITIONS

CURRENT:

Chief, Regional Center of Paediatric Neurosurgery,
Kaiser Permanente Foundation Hospitals of Northern California

PREVIOUS:

Director, Pediatric NeuroOncology Board, University of California, Davis

Member, University Children's Hospital, University of California, Davis Medical Center

Member, Pediatric ICU Committee, University of California, Davis Medical Center

Director, Neurofibromatosis Clinic, University of Pittsburgh - 1991 - 1993

Member, Executive Board of Directors, The National Neurofibromatosis Foundation, Pennsylvania Chapter

Chief, Division of Pediatric Neurosurgery, University of Pittsburgh - 1987 - January, 1992

Chief of Neurosurgery, Children's Hospital of Pittsburgh - 1987 - January, 1992

Director, Neurosurgical Research Laboratories, Department of Neurosurgery, University of Pittsburgh - 1985 - April, 1991

Associate Director, Trauma Team, Pediatric Section of University of Pittsburgh Health Center - 1984 - 1989

Chairman, Disaster Committee, Children's Hospital of Pittsburgh - 1983 - 1989

Member, Reye's Syndrome Committee, Children's Hospital of Pittsburgh

Member, ICU Committee, Children's Hospital of Pittsburgh

ADMINISTRATIVE POSITIONS PREVIOUS continued:

Member, ICU Executive Planning Committee, Children's Hospital of Pittsburgh

Member, Operating Room Committee, Children's Hospital of Pittsburgh

Member, Subcommittee for Emergency Medicine, Children's Hospital of Pittsburgh

Member, Education and Treatment Task Forces of the Trauma Committee of the Emergency Medical Service Institute of Western Pennsylvania

Member, Transfusion Committee, University Health Center Tristate Representative, Keystone Regional Spinal Cord Injury Referring System

Neurosurgical Representative, Pediatric Transport, Children's Hospital of Pittsburgh

Member, Ambulatory Care Committee, Children's Hospital of Pittsburgh

PROFESSIONAL ACTIVITIES

TEACHING

CURRENT:

Teaching Pediatric Neuroscience at Kaiser Permanente Hospitals in Northern California

Training Neurosurgery residents at Kaiser Permanente Hospital, Oakland, California
University of California, Davis

PREVIOUS:

Course Director, Pediatric Neurosurgery Clinical Conference, University of California, Davis

Course Co-Director, Basic & Clinical Neuroscience Conference, University of California, Davis

Director, Pediatric NeuroOncology Conference

Course Director, Basic Neuroscience Course, Department of Neurosurgery, University of Pittsburgh
Organizer, Conferences for Trauma Management, Pediatric Section, University of Pittsburgh Health Center

Course Director, Multiple Trauma Module, Critical Care Course for Nurses, University of Pittsburgh

Course Director, Multiple Trauma Lecture Series for Residents, University of Pittsburgh

PREVIOUS TEACHING, continued:

Chief Organizer, Trauma Center Activities, Pediatric Section, University of Pittsburgh

Course Director in Collaboration with the Department of Continuing Education, University of Pittsburgh, Symposium of The First Joint Conference on Rehabilitation of the Brain Injured Child.

Course Director in Collaboration with The Rehabilitation Institute of Pittsburgh, Head Injury Perspectives 1983 Symposium

Course Director in Collaboration with The Rehabilitation Institute of Pittsburgh, Pediatric Head Injury Conference 1985

Participant, Neurosurgical Section of Third Year Medical Student Teaching

Participant, Neurosurgical Resident Mortality Complication Rounds

Participant, Joint Neuroscience Conferences, University Health Center

Participant in Collaboration with the Department of Pediatrics, Magee Women's Hospital, Seventh Annual Regional Perinatal Symposium

Participant, Neurosurgical Section of the Graduate School of Nursing, University of Pittsburgh

Participant, Neurosurgical Resident Pre-board Exam Cram Course

EDITORIAL POSITIONS

- | | |
|--------------------------|--|
| Member | Advisory Board for Spine and Dysraphism, Child's Nervous System - Official Journal of the International Society for Pediatric Neurosurgery. Springer-Verlag |
| Associate Editor: | Child's Nervous System - Official Journal of the International Society for Pediatric Neurosurgery. Springer-Verlag |
| Member | Review Board, Pediatric Neurosurgery - Official Journal of the American Society of Neurosurgery |
| Member | Review Board, Neurosurgery - Official Journal of the Congress of Neurological Surgeons. |

PUBLICATIONS

Refereed Articles

1. Scholten, T, Pang D, Lau TS: Cysticercosis of the central nervous system. CMAJ 115:October 9, 1976.
2. Pang D, Hoffman HJ: Sacral agenesis with progressive neurologic deficit. Neurosurg 7:118-126, 1980.
3. Pang D, Wilberger JE, Jr: Upward migration of the peritoneal tubing. Surg Neurol 14:363, 1980.
4. Pang D, Wilberger JE, Jr: Traumatic atlanto-occipital dislocation with survival. Case report and review. Neurosurg 7(5):503-508, 1980.
5. Wald ER, Pang DP, Milmoie GJ, Schramm Jr., VL: Sinusitis and its complications in the pediatric patient. Pediatric Clinics of North America 28(4): 777-796, 1981.
6. Pang D, Kerber C, Biglan AW, Ahn HS: External carotid cavernous fistula in an infant: Case report and review of the literature. Neurosurg 8(2):212-218, 1981.
7. Biglan AW, Pang D, Shuckett EP, Kerber C: External carotid cavernous fistula in an infant. Am J Ophthal 91:351-356, 1981.
8. Pang D, Rosenbaum AE, Gutai JP, Wilberger JE: Metrizamide CT cisternography for diagnosing occult hypothalamic-hypophyseal axis lesions in children. Neurosurg 8(5):531-541, 1981.
9. Guthkelch NA, Pang D, Vries JK: The influence of closure technique on results in myelomeningocele. Child's Brain 8:350-355, 1981.
10. Wilberger JE, Pang D: Craniocerebral injuries in an infant from dog bite. Neurosurg 9(4):426-428, 1981.
11. Pang D, Ashmead JW: Extraneural metastasis of cerebellar glioblastoma multiforme. Neurosurg 10(2):252-257, 1982.
12. Pang D, Wilberger JE: Tethered cord syndrome in adults. J Neurosurg 57:32-47, 1982.
13. Pang D, Wilberger JE: Spinal cord injury without radiographic abnormality. J Neurosurg 57(1):114-129, 1982.
14. Pang D, Lin A: Symptomatic large parietal foramina. Neurosurg 11(1):33-37, 1982.

PUBLICATIONS (continued):

15. Pang D: Air embolism associated with wounds from a pin-type head-holder. *J Neurosurg* 57:710-713, 1982.
16. Horton JA, Latchaw RE, Pang D, Gold LHA: Embolization of intramedullary spinal cord arteriovenous malformations. *Radiology* 114(4):960, 1982.
17. Wilberger JE, Pang D: Syndrome of the incidental herniated lumbar disc. *Surg Forum* 33:510-512, 1982.
18. Wilberger JE, Pang D: Syndrome of the incidental herniated lumbar disc. *J Neurosurg* 59:137-141, 1983.
19. Wilberger JE, Pang D: Craniocerebral injuries from dog bites. *JAMA* 249(19):2685-2688, 1983.
20. Pang D, Parrish RG: Regrowth of diastematomyelic bone spur after extradural resection. *J Neurosurg* 59:887, 1983.
21. Pang D, Horton JA, Herron JM, Wilberger JE, Jr., Vries JK: Nonsurgical management of extradural hematomas in children. *J Neurosurg* 59:958-971, 1983.
22. Pang D, Casey K: Use of anal sphincter pressure monitor during operations on the sacral spinal cord and nerve roots. *Neurosurg* 13:562, 1983.
23. Painter MD, Pang D: Connatal brain tumors in patients with tuberous sclerosis. *Neurosurg* 14(5):570-573, 1984.
24. Horton JA, Latchaw RE, Gold LHA, Pang D: Embolization of intramedullary arteriovenous malformation of the spinal cord. *Amer J Neuroradiol* 7:113-118, 1986.
25. Pang D, Scwabassi RJ, Horton JA: Lysis of intraventricular blood clot with urokinase in a canine model. Part I: The canine intraventricular blood cast model. *Neurosurg* 19:540-546, 1986.
26. Pang D, Scwabassi RJ, Horton JA: Lysis of intraventricular blood clot with urokinase in a canine model. Part II: In-vivo safety study of intraventricular urokinase. *Neurosurg* 19:547-552, 1986.
27. Pang D, Scwabassi RJ, Horton JA: Lysis of intraventricular blood clot with urokinase in a canine model. Part III: Effects of intraventricular urokinase on clot lysis and post-hemorrhagic hydrocephalus. *Neurosurg* 19:553-572, 1986.
28. Ramirez OM, Ramasastry S, Granik MS, Pang D, Futrell WF: A new surgical approach to closure of large lumbosacral meningocele defects. *Plast Reconstr Surg* 80:799-807, 1987.

PUBLICATIONS (continued):

29. Pollack I, Pang D, Schuit K: Chronic granulomatous disease with cranial fungal osteomyelitis and epidural abscess. *J Neurosurg* 67:132-136, 1987.
30. Derkey CS, Kenna MA, Pang D: Refractory torticollis: An uncommon complication of adenotonsillectomy. *Int J Pediatr Otorhinolaryngol* 14:87-93, 1987.
31. Pang D, Wessel H: Thoracic outlet syndrome. *Neurosurg* 22:105-121, 1988.
32. Pollack I, Pang D, Sclabassi, R: Recurrent spinal cord injury without radiographic abnormalities in children. *J Neurosurg* 69:177-182, 1988.
33. Goodman ML, Pang D: Spinal cord injury in I-cell disease. *Pediatr Neurosci* 14:315-318, 1988.
34. Pang D, Pollack IF: Spinal cord injury without radiographic abnormality in children - The SCIWORA syndrome. *J Trauma* 29(5):654-664, 1989.
35. Pollack IF, Pang D, Hall WA: Subarachnoid-pleural and subarachnoid-mediastinal fistulae. *Neurosurg* 26(3):519-525, 1990.
36. Furman JMR, Wall C, Pang D: Vestibular function in periodic alternating nystagmus. *Brain* 113, 1425-1439, 1990.
37. Dias M, Pang D: Juvenile intervertebral disc calcification: Recognition, management, and pathogenesis. *Neurosurg* 28:130-135, 1991.
38. Grabb P, Albright AL, Pang D: Cerebrospinal fluid dissemination of supratentorial malignant gliomas in children. *Neurosurg* 30:64-71, 1992.
39. Putnam PE, Orenstein, SR, Pang D, Pollack IF, Proujansky R, Kocoshis S. Cricopharyngeal dysfunction associated with Chiari malformations. *Pediatrics* 89:871-876 (#5, part I), 1992.
40. Pollack IF, Pang D, Kocoshis S, Putnam P: Neurogenic dysphagia resulting from Chiari malformations. *Neurosurg* 30:709-719, 1992
41. Horowitz M, Pang D, Hirsch W: Acute cerebellitis: Case Report and Review. *Pediatr Neurosurg* 17:142-145, 1991-1992.
42. Pang D, Dias M, Ahdab-Barmada M: Split cord malformation Part I: A unified theory of embryogenesis for double spinal cord malformation. *Neurosurg* 31:451-480, 1992.
43. Pang D: Split cord malformation Part II: The clinical syndrome. *Neurosurg* 31:481-500, 1992.

PUBLICATIONS (continued):

44. Pollack I, Pang D, Albright LA, Krieger D: Outcome following hind brain decompression of symptomatic Chiari malformations in children previously shunted with myelomeningoceles. *J Neurosurg* 77:881-888, 1992.
45. Kalia K, Swift D, Pang D: Multiple epidural hematomas following ventriculo-peritoneal shunt. *Pediatr Neurosurg* 19:78-80, 1993.
46. Pang D: Sacral agenesis and caudal spinal cord malformations. *Neurosurg* 32(5):755-779, 1993.
47. Pang D, Dias MS: Cervical myelomeningoceles. *Neurosurg* 33(3):363-373, 1993.
48. Flint EW, Claassen D, Pang D, Hirsch W: Intrasellar and suprasellar paraganglioma: CT and MRI Findings. *Amer J Neuroradiol* 14(5):1191-1193, 1993.
49. Ramasastry SS, Ramirez OM, Pang D, Loskin W: Followup on the bilateral latissimus dorsi gluteus maximus myocutaneous flap closure of meningocele defects. *Plast Surg Forum* 16:59-61, 1993.
50. Pang D, Grabb P. Accurate placement of coronal ventricular catheter using stereotactic coordinate-guided free-hand passage. *J Neurosurg* 80:750-755, 1994.
51. Pollack IF, Pang D, Albright AL: The long-term outcome in children with late-onset aqueductal stenosis resulting from benign intrinsic tectal tumors. *J Neurosurg* 80:681-688, 1994.
52. Grabb PA, Pang D: Magnetic resonance imaging in the evaluation of spinal cord injury without radiographic abnormality (SCIWORA) in children. *Neurosurg* 35:406-414, 1994.
53. Pollack IF, Hurtt M, Pang D, Albright AL: Dissemination of low-grade intracranial astrocytomas in children. *Cancer* 73(11):2869-2878, 1994.
54. Rutigliano MJ, Pollack IF, Ahdab-Barmada M, Pang D, Albright AL: Intracranial infantile neurofibromatosis. *J Neurosurg* 81(4):539-543, 1994.
55. Pang D, Altshuler E: Low pressure hydrocephalic state and viscoelastic alterations in the brain. *Neurosurg* 35(4):643-656, 1994.
56. Clark RSB, Orr RA, Atkinson CS, Towbin RB, Pang D: Retinal hemorrhages associated with spinal cord arteriovenous malformation. *Clinical Pediatrics* 34(5):281-300, 1995.
57. Pang D: Surgical complications of open spinal dysraphism. *Neurosurgery Clinics of North America* 6(2):243-257, 1995.

PUBLICATIONS (continued):

58. Dias MS, Pang D: Split cord malformations. *Neurosurgery Clinics of North America* 6(2):339-358, 1995.
59. Pang D: Occult filum terminale. Editorial comment. *Pediatr Neurosurg* 1995;23:228-235
60. Miller PD, Pollack IF, Pang D, Albright AL: Comparison of simultaneous versus delayed ventriculoperitoneal shunt insertion in children undergoing myelomeningocele repair. *J of Child Neurology* 11(5): 370-372, 1996.
61. Li V, Albright AL, Sciabassi R, Pang, D: The role of somatosensory evoked potentials in the evaluation of spinal cord retethering. *Pediatr Neurosurg* 24(3):126-133, 1996.
62. Chong BW, Babcock CJ, Pang D, Ellis WG: A magnetic resonance template for normal cerebellar development in the human fetus. *Neurosurg* 41(4): 924-928, 1997.
63. Cheng M L, Chang S D, Pang D, Adler JR: Intracranial Nasal Dermoid Sinus Cyst Associated with Colloid Cyst of the Third Ventricle. *Pediatr Neurosurg* 31(No 4):201-206, 1999.
64. Pang D, Tadanori T, Byrd S, Conway JJ, Chou P, deLeon GA: Clinical Pathological Correlation. A 14 year old young woman with a five week history of back pain. *Paediatric Neurosurg* 2000; 32:100-108
65. Pang D: Ventral Tethering in Split Cord Malformation. *Neurosurgical Focus* 10 (1): Article 6, 2001
66. Picetti G, Pang D, Bueff H: Thoracoscopic techniques for the treatment of scoliosis: early results in procedure development. *Neurosurgery* 51: 987-994, 2002.
67. Tse HH, Lee M, Pang D: The Combined use of hydroxyapatite and bioabsorbable plates in repairing cranial defects in children. *Journal of Investigative Medicine* 51 (S): 181, 2003
68. Pang D, Li V. Atlanto-Axial Rotatory Fixation, part I: Biomechanics of normal rotation at the atlantoaxial joint in children. *Neurosurgery* 55(No 3): 614-626, 2004.
69. Picetti G, D Pang D: Thoracoscopic techniques for the treatment of scoliosis. *Child's Nervous System* 20 (11-12): 802-810, 2004
70. Pang D, Spinal cord injury without radiographic abnormality (SCIWORA) in children, two decades later, *Neurosurgery* 55: 1325 -1343, 2004.

PUBLICATIONS (continued):

71. Pang D, Tse H, Smith M, Lee M, Zovickian J: The combined use of hydroxyapatite and bioabsorbable plates in repairing cranial defects in children. *J Neurosurg (Pediatrics I)* 102: 36-43, 2005.
72. Pang D, Lee M, Smith M, Zovickian J G: Progressive cranial neuropathies following isolated fourth ventricular shunting. *J Neurosurg (Pediatrics 3)* 102: 326-331, 2005.
73. Oviedo A, Pang D, Zovickian J G, Smith M: Clear Cell Meningioma: Case Report and Review of the Literature. *Ped Develop Path.* 8 (3): 386 – 90, May – June 2005
74. Pang D, Li V: Atlanto-Axial Rotatory Fixation Part II: New Diagnostic Paradigm and a New Classification Based on Motion Analysis Using Computed Tomographic Imaging. *Neurosurgery* 57: 941-953, 2005
75. Pang D, Li V: Atlanto-Axial Rotatory Fixation Part III: A Prospective Study of the Clinical Manifestation, Diagnosis, Management and Outcome of Children with Atlanto-Axial Rotatory Fixation. *Neurosurgery* 57: 954 – 972, 2005.
76. Picetti GD III, Pang D: Thoracoscopy for correction of adult thoracic scoliosis. *Neurosurgery clinics of North America.* 17 (4) : 447-458, 2006.
77. Pang D, Nemzek WR, Zovickian J: Atlanto-Occipital Dislocation Part 1: Normal Occipital Condyle –C1 Interval in 89 Children. *Neurosurgery* 61:514–521, 2007.
78. Pang D, Nemzek WR, Zovickian J: Atlanto-Occipital Dislocation Part 2: The Clinical Usage of (Occipital) Condyle –C1 Interval; Comparison with Other Diagnostic Methods, and the Manifestation, Management and Outcome of Atlanto-Occipital Dislocation in Children. *Neurosurgery* 61:995–1015, 2007.
79. Pang D, Zovickian J G, Oviedo A: Long Term Outcome of Total and Near Total Resection of Spinal Cord Lipomas and Radical Reconstruction of the Neural Placode Part I: Surgical Technique. *Neurosurgery* 65: 511-529, 2009.
80. Pang D: Atlanto-Axial Rotatory Fixation, in Special Supplement on Surgery of the Craniovertebral Junction. Ed. By Menezes, AH Sonntag VKH, and Wang MY. *Neurosurgery* 66: No.3, A161-A183, 2010.
81. Pang D: Comments on Intraoperative Neurophysiology of the Conus Medullaris and Cauda Equina. *Childs Nervous System.* 26 (4) : 411, 2010.

PUBLICATIONS (continued):

82. Pang D, Zovickian JG, Oviedo A. Long Term Outcome of Total and Near Total Resection of Spinal Cord Lipomas and Radical Reconstruction of the Neural Placode Part II: Outcome Analysis and Preoperative Profiling. *Neurosurgery* 66: 253-273, 2010.
83. Pang D, Commentary to the Paper Double Neural Tube Defect: A case report and discussions on neural tube development by V. Ravindran . *Child Nervous System*, 26(5):703, 2010
84. Pang D, Zovickian JG, Oviedo A, Moes GS. Limited Dorsal Myeloschisis: A Distinctive Clinicopathological Entity. *Neurosurgery* 67(6):1555-1580, 2010.
85. Pang,D, Thompson, DNP. Embryology and bony malformations of the craniovertebral junction. *Child's Nervous System*, 2011;27:523-564.
86. Pang D, Zovickian JG, Moes GS. Retained medullary cord in humans - late arrest of secondary neurulation. *Neurosurgery* 68(6):1500-1519, 2011
87. Pang D. Controversy in Neurosurgery: Commentary on: The value of post-operative MR in tethered cord; a review of 140 cases; by Halevi PD, Udayakumaran S, Ben-Sira L, and Constantini S. *Child's Nervous System*, 2011 Dec;27(12):2173. Epub 2011 Sep 29.
88. Lee JY, Zovickian JG, Wang KC, Pang D. Subcutaneous cervical emphysema associated with mastoid fracture. *Child's Nervous System*, 2012 Mar;28(3):489-91. E.pub 2012 Jan 12.
89. Pang D, Zovickian JG, Lee JY, Moes GS, Wang KC. Terminal myelocystocoele: surgical observations and theory of embryogenesis. *Neurosurgery*, 70(6), 1383-1405,2012
90. Pang D. Perspective : Treating atlanto-occipital dislocation in very young children and infants: solving the Archimedean spiral. *World Neurosurgery*, 78, (6):614-616. 2012.
91. Pang, D : Commentary to the article: Asymptomatic lumbosacral lipomas- a natural history study; by Wykes V, Desai D, and Thompson DNP. *Child's Nervous System*, 28(10), 1741-1742,2012
92. Pang D, Thompson DNP, Embryology, classification, and surgical management of congenital bony malformations of the craniovertebral junction. In *Advances and Technical Standards of Neurosurgery*. 40, 15-109, 2013
93. Pang D, Wang KC. A Rebuttal to a Letter to the Editor Entitled "Chick Development Does Not Help to Determine the Genesis of Terminal Myelocystocoele. *Neurosurgery*. 72(4) : pE698-E700, April, 2013
94. Pang D, Zovickian J, Wong ST, Hou YJ, Moes GS: Surgical treatment of complex spinal cord lipomas: *Child's Nervous System*. Oct., 29(9) : 1485-1513, 2013.

PUBLICATIONS (continued):

95. Pang D, Zovickian J, Wong ST, Hou YJ: Limited dorsal myeloschisis: A not-so-rare form of primary neurulation defect. *Child's Nervous System*. Oct., 29(9) : 1459-1484, 2013
96. Pang D, Commentary to the article: Angular Craniometry in Craniocervical Junction Malformation by Botelho, R and Ferreira, ED. *Neurosurg Rev* 36(4):610-611, 2013
97. Pang D, Zovickian J, Wong ST, Hou YJ, Le H: Parallel angulated frontal bone slat-cuts for treatment of metopic synostosis and other frontal skull deformities. The "Cathedral Dome Procedure". *Child Nerv Sys* (2013) 29:2171–2182
98. Lee JY, Kim SP, Park SH, Choi JW, Phi JH, Kim SK, Pang D, Wang KC : Pathoembryogenesis of terminal myelocystocele: Terminal balloon in secondary neurulation of the chick embryo. *Child Nerv Sys.*, Oct., 29(9) : 1683-1688, 2013
99. Wong S.T, Zovickian J, Hou YJ, Sonne C, Pang D: Traumatic rupture of the neurocentral synchondrosis of the axis in a child. *Journal of Neurosurgery (Pediatrics)*; May 2014, Vol13. No.5: 548-552
100. Wong S.T, Ernest K, Fan G, Zovickian J, Pang D: Isolated unilateral rupture of the alar ligament: Case report and review of the literature. *Journal of Neurosurgery (Pediatrics)*; May 2014, Vol13. No.5: 541-547
101. Wong S.T, Moes Gregory, Ernest K, Zovickian J, Kim John Y.H., Pang D: Innervation of the brain, intracerebral Schwann cells and intracerebral and intraventricular schwannomas. *Child Nerv Sys* (2014) 30:815–824
102. Pang D : Total resection of complex spinal cord lipomas : How, why, and when to operate. *Neurologia Medico-Chirurgica*, Tokyo, Japan. (In press).

Book Chapters

1. Pang D: Intracranial complications of acute sinusitis in children. Chapter 3, *Pediatric Clinics of North America*, IN Stool, SE (ed), WB Saunders Co. 1981, pp. 790-794.
2. Pang D: Sacral agenesis. Chapter 263, Part XI, *Neurosurgery*. IN Wilkins RH, Rengachary SS (eds), McGraw-Hill, Inc., New York, NY, 1985.
3. Pang D: Pathophysiological correlation of neurobehavioral syndromes following closed head injury. Chapter 1, *Head Injury Rehabilitation: Children and Adolescents*. IN Ylvisaker M (ed), College Hill Press, San Diego, CA, 1985.

Book Chapters, (cont.):

4. Pang D: Tethered cord syndrome in adults. Chapter 9, The Tethered Spine. IN Holtzman R, Stein B (eds), Thieme-Stratton Co., New York, NY, 1985, pp. 99-115.
5. Pang D: Use of an anal sphincter pressure monitor for identification of sacral nerve roots and conus. Chapter 6, The Tethered Spine. IN Holtzman R, Stein B (eds), Thieme-Stratton Co., New York, NY, 1985, pp. 74-84.
6. Pang D, Wald E: Rhinitis and sinusitis. Current Pediatric Therapy 12, IN Gellis SS, Kagan BM (eds), W.B. Saunders Co., Philadelphia, PA, 1986, pp. 105-108.
7. Pang D: Tethered cord syndrome. Advances in Pediatric Neurosurgery. IN Hoffman HJ (ed), Hanley and Belfus, Inc., Philadelphia, PA, 1986, pp. 45-79.
8. Wald E, Pang D: Diagnosis and treatment of sinusitis and its complications. Antibiotic Therapy in Head and Neck Surgery. IN Johnson, JT (ed), Marcel Dekker, Inc., New York, 1987, pp. 125-150.
9. Pang D: Physics and pathophysiology of head injury syndromes. Assessment of Behavioral Consequences of Head Injury. IN Ed. M. Lezak, Alan R. Liss, Inc., New York, NY, 1989, pp.117.
10. Pang D: Special problems of spinal stabilization in children. Management of Post-Traumatic Spinal Instability. IN Cooper PR (ed). American Association of Neurological Surgeons, New York, NY, 1990, pp. 181-206.
11. Pang D: Craniopharyngioma in children. Chapter 10, The Management of Childhood Brain Tumors, IN Deutsch M (ed)., Kluwer Academic Publishers, Norwell, MA, 1990, pp. 285-307.
12. Pang D: Pituitary adenoma in children and adolescents. Chapter 11, The Management of Childhood Brain Tumors. IN Deutsch M (ed)., Kluwer Academic Publishers, Norwell, MA, 1990, pp. 309-323.
13. Pang D: Tethered cord syndrome - Newer concepts. Neurosurgery Update. IN Wilkins RH, Rengachary SS (eds), McGraw-Hill Co., New York, NY, 1991, pp. 336-344
14. Pang D: Surgical management of craniopharyngiomas. Chapter 50, Surgery of Cranial Base Tumors: A Color Atlas. IN Sekhar L, Janecka I (eds), Raven Press, New York, NY, 1993, pp 787-807.
15. Hurwitz D, Pang D, Albright AL, Krieger D: Craniofacial surgery - creation of a dome in the surgery of craniosynostosis - six cases of plagiocephaly. Chapter IV, Craniosynostosis. IN Ernesto Caronni (ed). 1993, pp 316-320.

Book Chapters, (cont.):

16. Pang D: Epidural hematoma and subdural hematoma. Gellis and Kagan's Current Pediatric Therapy 14. IN Burg F, Ingelfinger J, Wald F (eds), W.B. Saunders Company, 1993, pp 55-56.
17. Pang D: Brain abscess and spinal epidural abscess. Gellis and Kagan's Current Pediatric Therapy 14. IN Burg F, Ingelfinger J, Wald F (eds), W.B. Saunders Company, 1993, pp. 63-65.
18. Pang D: Surgical management of split cord malformations. AANS Neurosurgical Operative Atlas, IN Wilkins, R and Rengachary, S. (eds) Williams and Wilkins. Baltimore, MA, 1993, Vol. 3, pp 135-149.
19. Pang D: Craniopharyngiomas. Chapter 35, Principles of Neurosurgery. IN Rengachary SS, Wilkins RH (eds). Wolfe Publishing, Mosby-Year Book Europe Ltd., London, England, 1994, pp. 35.1-35.26.
20. Pang D: Agenesis of the sacrum and the caudal spinal cord. Chapter 10, Surgical Disorders of the Sacrum. IN Doty JR and Rengachary SS (eds). Thieme Medical Publishers Inc., New York, NY, 1994, pp 74-89.
21. Dias M, Pang D: Human neural embryogenesis: A description of neural morphogenesis and a review of embryonic mechanisms. Chapter 1, Disorders of the Pediatric Spine. IN Pang D (ed) Raven Press, New York, NY, 1995, pp. 1-26.
22. Pang D: Spinal cord lipomas. Chapter 11, Disorders of the Pediatric Spine. IN Pang D (ed). Raven Press, New York, NY, 1995, pp. 175-201.
23. Pang D: Split cord malformation. Chapter 12, Disorders of the Pediatric Spine. IN Pang D (ed). Raven Press, New York, NY, 1995, pp. 203-251.
24. Dias M, Pang D: Cervical myelomeningocele. Chapter 13, Disorders of the Pediatric Spine. IN Pang D (ed). Raven Press, New York, NY, 1995, pp. 253-264
25. Pang D: Caudal agenesis and dysembryogenesis of the caudal spinal cord. Chapter 15, Disorders of the Pediatric Spine. IN Pang D (ed). Raven Press, New York, NY, 1995, pp 277-308.
26. Pollack IF, Pang D: Spinal cord injury without radiographic abnormality (SCIWORA). Chapter 27, Disorders of the Pediatric Spine. IN Pang D (ed). Raven Press, New York, NY, 1995, pp 509-516.
27. Li V, Pang D: Atlantoaxial rotational fixation. Chapter 29, Disorders of the Pediatric Spine. IN Pang D (ed). Raven Press, New York, NY, 1995, pp 531-553.

Book Chapters, (cont.):

28. Pang D: Principles and pitfalls of spinal stabilization in children. Chapter 32, Disorders of the Pediatric Spine, IN Pang D (ed). Raven Press, New York, NY, 1995, pp 575-604.
29. Pang D, Sahraakar K, Sun PP: Pediatric spinal cord and vertebral column injuries. Neurological Surgery, Fourth Edition, IN Youmans, JR (ed). W.B. Saunders Company, Philadelphia, PA, 1995, pp. 1991-2035.
30. Pang D: Medulloblastoma. Chapter 9, Surgical Disorders of the Fourth Ventricle. IN Cohen, AR (ed). Blackwell Scientific Publications, Inc., Cambridge, MA, 1995, pp 168-188.
31. Pang D: Intraoperative neurophysiological monitoring of the lower sacral nerve roots and spinal cord. Chapter 13, Tethered Cord Syndrome, IN Yamada, S (ed). The American Association of Neurological Surgeons Publications Committee, Park Ridge, IL, 1996, pp 135-147.
32. Pang D: Tethered cord syndrome: Applied embryology and unusual dysraphic and paradysraphic lesions. Chapter 351, Neurosurgery, 2nd ed: IN Wilkins RH, Rengachary SS (eds). McGraw-Hill Inc., New York, NY, 1996, pp 3465-3496.
33. Pang D: Caudal agenesis and associated caudal spinal cord malformations. Chapter 356, Neurosurgery - Second Edition. IN Wilkins RH, Rengachary SS (eds), McGraw-Hill, Inc., New York, NY, 1996, pp 3527-3553.
34. Pang D: Spinal cord injury without radiographic abnormality (SCIWORA) in children. Chapter 13, The Child with a Spinal Cord Injury. IN Betz R (ed). AAOS and Shriners Hospital, Rosemont, IL, 1996, pp. 139-160.
35. Pang D: Thoracic Outlet Syndrome: Surgical Management and Outcome. IN Zager, El (ed.); Techniques in Neursurgery. Vol 6; No 1, March 2000, pp 27-49. Lippincott-Raven Publishers, Philadelphia, PA
36. Pang D: Surgery for Spinal Dysraphism. Atlas of Neurosurgical Techniques. IN Fessler, RG; and Sekhar, LN (eds), Thieme Medical Publishers, Inc, New York, NY (in Press).
37. Pang D: Paediatric Spinal Cord Injuries. In Paediatric Neurosurgery: Surgery of the Developing Nervous System. McLone DG (ed)., pp 660-694. W.B. Saunders, Philadelphia, PA. 2001.
38. Pang D: Split Cord Malformation, Theories and Practice. In Textbook of Neurological Surgery, ed. Batjer H. and Loftus C., pp 916-945. Lipincott, Williams and Wilkins, NJ. 2002.
39. Pang D: Spinal Cord Lipoma. In Textbook of Neurological Surgery, ed. Batjer H. and Loftus C., pp 896-915. Lipincott, Williams and Wilkins, NJ. 2002.

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40. Pang D, Sarahkar K: Nerve Entrapment Syndromes. E-medicine 2002
41. Sahrakar K, Pang D: Surgical management of Hydrocephalus. E-Medicine 2002.
42. Pang D, Sun PP: Paediatric Spine and Spinal Cord Injuries. Neurological Surgery, 5th edition. In Youmans, JR (ed)., pp 3515-3557. W. B. Saunders Company, Philadelphia, PA. 2003
43. Pang D: Spinal cord injury without radiographic abnormality (SCIWORA) in children. Neurosurgery - Third Edition. IN Wilkins RH, Rengachary SS (eds), McGraw-Hill, Inc., New York, NY, (In press.)
44. Pang D: Craniopharynginomas. In Principles of Neurosurgery, Principles of Neurosurgery, 2nd Edition Rengachary S, Ellenbogen R (eds.), pp 621-646. Elsevier Publishers Ltd, London. 2005
45. Pang D: Surgical management of spinal dysraphism. In Atlas of Neurosurgical Techniques. Fessler R, Sekhar L, Editor, (ED), pp 729-758. Thieme Medical and Scientific Publishers, New York. 2006
46. Pang D: Surgical Treatment of Lipomas and Lipomyelomeningoceles and Results. In Tethered Cord Syndrome, 2nd Edition. Ed. Yamada S. Thieme Medical and Scientific Publishers, New York. 2010
47. Pang D: Intraoperative Neurophysiological Monitoring of the Lower Sacral Nerve Roots and Spinal Cord. In Tethered Cord Syndrome, 2nd Edition. Ed. Yamada S. Thieme Medical and Scientific Publishers, New York. (In press).
48. Pang D: Surgical Management of Split Cord Malformations. In Goodrich J (ed): Neurosurgical Operative Atlas. New York, Thieme Medical Publishers, 2008,
49. Pang D, Zovickian JG: Vertebral Column and Spinal Cord Injuries in Children, Chap 224; . in Winn HR (ed): Neurological Surgery, 6th edition, pp 2293-2332;. W. B. Saunders, Philadelphia, PA. 2011
50. Pang D: Electrophysiological monitoring for tethered cord surgery. In Tethered cord syndrome, 2nd Edition; edited by Yamada, S; Thieme Medical Publishers, New York, Stuttgart;; American Association of Neurosurgeon publication. 2010.
51. Pang D, Thompson DNP, Embryology of the craniovertebral junction and congenital malformations of the region. In The Cervical Spine, from The Cervical Spine Research Society, 5th Edition, Bazel EC (ed), pp351-385. Lippencott Williams and Wilkins. 2012.

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52. Pang, D. Surgical Management of Spinal Dysraphism. In Quiñones-Hinojosa, A Ed. Schmidek and Sweet's Operative Neurosurgical Techniques: Indications, Method, and Results. Sixth Edition. Pp 707-734. Elsevier Publishing . Philadelphia,PA, 2012
53. Pang, D Embryology of the craniovertebral junction and congenital malformations in the region. Progress in Clinical Neurosciences, Volume 25, Byword Books, Delhi, India. 2012
54. Pang D. Surgical management of complex spinal cord lipomas. In Albright AL, Pollack IF, and Edelson PD Eds. The Principles and Practice of Pediatric Neurosurgery . Thieme Publishing, New York NY, (In press).
55. Pang D, Zovickian JG, Hou YJ, Wong ST. Split Cord Malformation: From Gastrulation to Operation Cohen A (ed). Pediatric Neurosurgery: Tricks of the Trade. , Thieme, New York NY, 2013
56. Pang D, Wong ST; Paediatric Vertebral Column and Spinal Cord Injuries. Cohen A (ed). Pediatric Neurosurgery: Tricks of the Trade. , Thieme Publishers, New York NY, (In Press)
57. Pang D, Video demonstration of Total Resection of Complex Spinal Cord Lipomas. In Samandouras G (ed.). The Masters of Neurosurgery Series. National Neurology and Neurosurgery Hosiptal, Queen Square, London. (In press).
58. Pang D, Surgical Manual for Total Resection of Large Complex Dorsal Lipoma. In Samandouras G (ed.). The Masters of Neurosurgery Series. National Neurology and Neurosurgery Hosiptal, Queen Square, London. (In press).
59. Pang D: Embryology, classification, and surgical management of bony malformations of the craniovertebral junction. In Progress in Clinical Neurosciences,. Singh VP, Nair M (eds). Thieme Delhi, Stuttgart, New York, Rio. 2014.

Books Edited or Written

1. Disorders of the Pediatric Spine. Editor: Pang, D. Raven Press, New York, NY. 1995.
2. Spinal Dysraphism. Editor: Pang, D. Neurosurgical Clinics of North America. W.B. Saunders, Philadelphia, PA. 1995.

Printed Abstracts

1. Pang D, Rosenbaum AE, Gutai JP, Wilberger JE: Current necessity for metrizamide computed tomographic cisternography in the diagnosis of occult hypothalamic axis lesions in children. *Neurosurgery* 7 (3):292, 1980.
2. Pang D, Gutai J, Rosenbaum A, Wilberger JE: Metrizamide CT cisternography for diagnosing occult hypothalamic axis lesions in children. Pediatric Section of the Scientific Program at the Meeting of the American Association of Neurological Surgeons, New York, NY December 5, 1980.
3. Pang D, Wilberger JE: Traumatic atlanto-occipital dislocation in children with survival. Scientific manuscripts of the 7th International Congress of Neurological Surgery, Munich, Germany, Meeting July 12-18, 1981.
4. Pang D, Wilberger JE: Spinal cord injuries without radiographic abnormalities in children. *Neurosurgery* 9(4):478, 1981.
5. Wilberger JE, Pang D: Syndrome of the incidental herniated lumbar disc. Scientific manuscripts for the 51st annual meeting of the American Association of Neurological Surgeons, Honolulu, Hawaii, April 25-29, 1982, pp. 51-52.
6. Pang D, Wilberger JE: Spinal cord injuries without radiographic abnormalities in children. *Emergency Medicine Survey* 1(6):297, 1983.
7. Pang D, Germak AJ, Horton AJ: Precocious puberty model in rhesus monkey with microsurgical implantation of third ventricular microballoon. Scientific manuscripts, the annual meeting of the American Association of Neurological Surgeons, San Francisco, CA, April 10, 1984.
8. Pang D, Wilberger JE: Tethered cord syndrome in adults. *Yearbook of Neurology and Neurosurgery*, De Jong RN, Currier ED, Sugar O (eds), Year Book Medical Publishers, Chicago, IL, p. 378, 1984.
9. Pang D, Wilberger JE: Spinal cord injury without radiographic abnormalities in children. *Year Book of Pediatrics*, Oski FA, Stockman JA, III (eds), Year Book Medical Publishers, Chicago, IL, p. 378, 1984.
10. Pang D, Horton JA, Herron JM, Wilberger JE, Vries JK: Nonsurgical management of extradural hematomas in children. *Current Surgery*, 1984.
11. Pang D, Germak JA, Horton JA: Precocious puberty model in rhesus monkey with microsurgical implantation of third ventricular microballoon. Scientific manuscripts for the annual meeting of the American Association of Neurological Surgeons, San Francisco, CA, April 8-12, 1984, pp. 48-49.

Printed Abstracts, continued:

12. Germak JA, Pang D, Horton J: Precocious puberty model in rhesus monkey with microsurgical implantation of third ventricular microballoon. Seventh International Congress of Endocrinology, Quebec City, Quebec, Canada, July 1-7, 1984.
13. Ramasastry SS, Ramirez OM, Granik MS, Pang D, Futrell JW: A New approach to closure of large lumbosacral meningocele defects. ASPRS/PSEF/ASMS Annual Scientific Meeting, October 27-November 1, 1985, Kansas City, MO.
14. Pang D, Sclabassi R, Horton J: Intraventricular blood clot lysis with urokinase in canine intraventricular hemorrhage. Scientific Manuscripts of the Annual Meeting of the American Association of Neurological Surgeons. April 23, 1985. Atlanta, GA.
15. Pollack I, Pang D, Sclabassi R: Recurrent Spinal Cord Injury without Radiographic Abnormalities in Children. Proceedings from the Congress of Neurological Surgeons Annual Meeting. October 25, 1987. Baltimore, MD

INVITED LECTURES

1. Adult tethered cord syndrome. The Stonwin Medical Conference on The Tethered Cord. New York, New York, July 14-15, 1983.
2. Use of anal sphincter pressure monitor during operations on the sacral spinal cord and nerve roots. The Stonwin Medical Conference of the Tethered Spinal Cord. New York, New York, July 14-15, 1983.
3. Pathophysiological correlation of neuropsychological syndromes in trauma. Head Injury Perspectives 1983. Pittsburgh, Pennsylvania, November 3-4, 1983.
4. Current modalities in surgical intervention. Head Injury Perspectives 1983, Pittsburgh, Pennsylvania, November 3-4, 1983.
5. Management of head trauma. Trauma Day Meeting of the American College of Surgeons and the American College of Emergency Physicians. Pittsburgh, Pennsylvania, September 26, 1984.
6. Craniopharyngioma and tumors of the anterior third ventricle. Pediatrics Brain Tumor Program. Minneapolis, Minnesota, August 21-23, 1985.

Invited Lectures, continued:

7. Thoracic outlet syndrome, visiting professor, Department of Neurosurgery, Columbia University. New York, New York, June 27, 1985.
8. Precocious puberty model in rhesus monkey with microsurgical implantation of third ventricular microballoon, visiting professor, Institute for Human Reproduction, Columbia University. New York, New York, June 27, 1985.
9. Visiting Professor, University of Toronto, Department of Neurosurgery. Toronto, Canada. March 14, 1986.
10. Intraventricular haemorrhage: Treatment with intraventricular urokinase. Breakfast seminar, American Association of Neurosurgeons Annual Meeting. Atlanta, Georgia, April, 1985.
11. Brain trauma. Annual Brain Trauma Seminar, Southfield Rehabilitation Center. Troy, Michigan, May 24, 1986.
12. The Physics of closed head injury and pathophysiologic correlates of head injury syndromes. Pediatric Head Injury Symposium. Pittsburgh, Pennsylvania, November 14, 1985
13. Unanswered medical questions, facilitator of discussion group, Pediatric Head Injury Symposium. Pittsburgh, Pennsylvania, November 14, 1985.
14. Neurobehavioral syndromes following translamina terminalis resection of large craniopharyngioma in children. Visiting Professor, Massachusetts General Hospital, Harvard University, Boston, Massachusetts, March 17, 1987.
15. Pediatric neck injury. Trauma Symposium. East Liverpool, Ohio, April 15, 1987.
16. Tethered cord syndrome. Scientific Seminar, American Association of Neurological Surgery Annual Meeting. Dallas, Texas, May 5, 1987.
17. Expert panelist, Breakfast Seminar on Tethered Cord Syndrome, American Association of Neurological Surgery. Dallas, Texas, May 1987.
18. Pathophysiology of traumatic neurobehavioral syndromes. Community Re-entry following Head Injury, Vista Symposium Lecture. Pittsburgh, Pennsylvania, September 28, 1987.
19. Pathophysiology and treatment of memory disorders following closed head injury. Community Re-entry following Head Injury, Vista Symposium Workshop. Pittsburgh, Pennsylvania, September 30, 1987.
20. Spinal cord malformations. Expert Panelist, Pediatric Section of AANS Annual Meeting. Chicago, Illinois, December 8-11, 1987.

Invited Lectures, continued:

21. Closed head injuries in children. Eastern Trauma Forum 1988. Pittsburgh, Pennsylvania, April 7-9, 1988.
22. Craniopharyngioma and invasive pituitary adenoma: Panel Discussion. International Symposium on Cranial Base Surgery. Pittsburgh, Pennsylvania, September 13-17, 1988.
23. Thoracic Outlet Syndrome. Luncheon Seminar, Annual Meeting of Congress of Neurological Surgeons. Seattle, Washington, September 24-29, 1988.
24. The split cord syndrome. American Society for Pediatric Neurosurgery. St. Croix, Virgin Islands, January 8-15, 1989.
25. The SCIWORA syndrome. Symposium on the Pediatric Spine, Joint Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons and Congress of Neurological Surgeons. Cancun, Mexico, February 11-15, 1989.
26. A unified theory of embryogenesis for double cord malformation. Visiting Professor, University of West Virginia, Morgantown, West Virginia, February 24, 1989.
27. Neurobehavioral syndromes following translamina terminalis resection of large craniopharyngiomas in children. Visiting Professor, University of West Virginia, Morgantown, West Virginia, February 25, 1989.
28. Surgery on the pediatric spine. Breakfast Seminar, American Association of Neurological Surgeons. Washington, District of Columbia, April 2-6, 1989.
29. Split cord syndrome: A unifying theory of embryogenesis. Pennsylvania Child Neurology Society Annual Meeting, Pennsylvania State College. University Park, PA. June 8-9, 1989.
30. Problems of the pediatric spine: Moderator and Presenter. Breakfast Seminar, American Association of Neurological Surgeons. Nashville, Tennessee, April 29-May 3, 1990.
31. Chiari malformation: Pathology and Surgical Treatment. Craniobase Symposium: The Craniocervical Junction: Pathology and Surgical Treatment. Pittsburgh, Pennsylvania, October 10-11, 1990.
32. Closed head injury in children: Presenter. International Congress on Emergency and Trauma Medicine. Pittsburgh, Pennsylvania, October 18-20, 1990.
33. Surgery within the Fourth Ventricle: Presenter. Video Luncheon Seminar. Congress of Neurological Surgeons. Los Angeles, California, October 20-25, 1990.

Invited Lectures, continued:

34. Spinal cord injury without radiographic abnormality: Panelist. Joint Spine Section Symposium, Congress of Neurological Surgeons. Los Angeles, California, October 20-25, 1990.
35. Syringomyelia and chiari malformation. Luncheon Seminar Panelist. Congress of Neurological Surgeons. Los Angeles, California, October 20-25, 1990.
36. Tethered cord syndrome in adults: Lecture. Congress of Neurological Surgeons/American Association of Neurological Surgeons Joint Section on Disorders of the Spine. Palm Springs, California, February 13-17, 1991.
37. Neurogenic Dysphagia and Chiari Malformations. Breakfast Seminar Panelist. American Association of Neurological Surgeons. New Orleans, Louisiana, April 22-25, 1991.
38. The Spectrum of Open and Closed Neural Tube Defects. Breakfast Seminar Panelist. American Association of Neurological Surgeons. New Orleans, Louisiana, April 22-25, 1991.
39. Tethered Cord: Pediatric and Adult. Breakfast Seminar Panelist. American Association of Neurological Surgeons. Los Angeles, California, April 13-16, 1992.
40. Split Cord Malformation: A Unified Theory of Embryogenesis for Double Spinal Cord Malformations - Visiting Professor; University of California, Davis, California, April, 1992.
41. Intracranial Arachnoid Cysts. Luncheon Seminar Panelist. Congress of Neurological Surgeons Annual Meeting, Washington, District of Columbia, October 31-November 5, 1992.
42. Spinal Injuries in Children. Breakfast Seminar Panelist. American Association of Neurological Surgeons, Boston, Massachusetts, April 24-29, 1993.
43. Spinal Stabilization in Children. Breakfast Seminar Panelist. American Association of Neurological Surgeons, Boston, Massachusetts. April 24-29, 1993
44. Neurosurgical Management of Craniopharyngioma. Paediatric Neurosurgery Symposium, Toronto, Canada. May 20-23, 1993.
45. Spinal dysraphism. Luncheon Seminar Moderator. Congress of Neurological Surgeons Annual Meeting, Vancouver, Canada. October 2-7, 1993.
46. Tethered Spinal Cord. Panel Moderator: American Association of Neurological Surgeons, Pediatric Section. Annual Meeting. San Antonio, Texas, December 7-10, 1993.

Invited Lectures, continued:

47. Spinal Cord Tumors. Scientific Session Moderator. 1993 Annual Meeting of American Association of Neurological Surgeons Section on Pediatric Neurological Surgery. San Antonio, Texas, December 7 - 10, 1993.
48. Treatment of Pediatric Spinal Injuries. Breakfast Seminar 008 Moderator. 1994 Annual Meeting of American Association of Neurological Surgeons. San Diego, California, April 9 - 14, 1994.
49. Split Cord Malformations. The Pediatric Spine & Spinal Cord Conference. Sponsored by American Society of Pediatric Neurosurgeons and Northwestern University Medical School. Chicago, Illinois, June 9, 1994.
50. Craniovertebral Junctions. Session Moderator. The Pediatric Spine & Spinal Cord Conference. Sponsored by American Society of Pediatric Neurosurgeons and Northwestern University Medical School. Chicago, Illinois, June 9, 1994.
51. Pediatric Brain & Spinal Cord Injuries: Case Studies. Lecturer. 5th Annual Current Issues in Critical Care Conference. Mercy Medical Center Redding. Redding, California, September 16, 1994.
52. Atlantoaxial rotatory fixation in children; new diagnostic criteria and management. 44th Annual Meeting of the Congress of Neurological Surgeons. Chicago, Illinois, October 1-6, 1994.
53. Giant Craniopharyngiomas. Breakfast Seminar Panelist. 44th Annual Meeting of the Congress of Neurological Surgeons. Chicago, Illinois, October 1-6, 1994.
54. How to Perfect Intraoperative Photography & Videos. Breakfast Seminar Panelist. 44th Annual Meeting of the Congress of Neurological Surgeons. Chicago, Illinois, October 1-6, 1994.
55. Approaches to the Lateral and 3rd Ventricles. Breakfast Seminar Panelist. 44th Annual Meeting of the Congress of Neurological Surgeons. Chicago, Illinois, October 1-6, 1994.
56. Spinal Cord Injury Without Radiographic Abnormality (SCIWORA): Etiology, Diagnosis, Treatment and Outcome. Shriners - AAOS Symposium, The Child with a Spinal Cord Injury. Phoenix, Arizona, December 8-11, 1994.
57. Incomplete Spinal Cord Injury. Panelist. Shriners - AAOS Symposium, The Child with a Spinal Cord Injury. Phoenix, Arizona, December 8-11, 1994.
58. Management of Spine Injury II. Panelist. Shriners - AAOS Symposium, The Child with a Spinal Cord Injury. Phoenix, Arizona, December 8-11, 1994.
59. High Tetraplegia. Panelist. Shriners - AAOS Symposium, The Child with a Spinal Cord Injury. Phoenix, Arizona, December 8-11, 1994.

Invited Lectures, continued:

60. Spasticity. Panelist. Shriners - AAOS Symposium, The Child with a Spinal Cord Injury. Phoenix, Arizona, December 8-11, 1994.
61. Visiting Professor, University of Miami, FL, April 11 - 13, 1995
62. Pediatric spinal cord and vertebral column injuries. Breakfast Seminar Panelist. 1995 Annual Meeting American Association of Neurological Surgeons. Orlando, Florida, April 22-27, 1995.
63. Craniopharyngiomas. Luncheon Seminar Panelist. 1995 Annual Meeting of the Congress of the Neurological Surgeons. San Francisco, California, October 14-19, 1995.
64. Thoracic outlet syndrome. Luncheon Seminar Panelist. 1995 Annual Meeting of the Congress of the Neurological Surgeons. San Francisco, California, October 14-19, 1995.
65. Pediatric spinal cord injuries. Luncheon Seminar Panelist. 1995 Annual Meeting of the Congress of the Neurological Surgeons. San Francisco, California, October 14-19, 1995.
66. Visiting Professor, University of California, San Francisco, San Francisco, CA, February 16 - 18, 1996.
67. Paediatric spinal cord injuries. Breakfast Seminar Moderator. 1996 Annual Meeting of the American Association of Neurological Surgeons. Minneapolis, Minnesota, April 27-May 2, 1996.
68. Spinal dysraphisms. Breakfast Seminar Moderator. 1996 Annual Meeting of the American Association of Neurological Surgeons. Minneapolis, Minnesota, April 27-May 2, 1996.
69. Congenital tethered cord syndrome in adults. Discussant. 1997 Annual Meeting of the American Association of Neurological Surgeons. Denver, Colorado, April 14-17, 1997.
70. Thoracic Outlet Syndrome. Breakfast Seminar Panelist. 1997 Annual Meeting of the American Association of Neurological Surgeons. New Orleans, Louisiana, September 27 - October 2, 1997.
71. Tethered Cord Syndrome. Breakfast Seminar Moderator. 1997 Annual Meeting of the American Association of Neurological Surgeons. Denver, Colorado, April 14-17, 1997.
72. Split Cord Malformations. Neurosurgery/Neuroradiology/Neurological Sciences Grand Rounds Speaker, Visiting Professor. Stanford University Medical Center, Stanford, California, June 12, 1997.
73. Issues in complex pediatric spine surgery. Luncheon Seminar Speaker, 1997 Annual Meeting of the Congress of Neurological Surgeons. New Orleans, Louisiana, September 27 - October 2, 1997.

Invited Lectures, continued:

74. Visiting Professor and Visiting Paediatric Neurosurgery Consultant, Ministry of Health and the Neurosciences Institute, Singapore, February 28 – March 20, 1998.
75. The Tethered Cord. Breakfast Seminar Panelist. 1998 Annual Meeting of the American Association of Neurological Surgeons. Philadelphia, PA , April 25-30, 1998.
76. Leica Visiting Professor for Neurological Surgery. Medical College of New Jersey. June 1998.
77. Split Cord Malformation; and Thoracic Outlet Syndrome. Visiting Professor, University of Arkansas, Arkansas, July 6 – 9, 1998.
78. Visiting Professor of Neurosurgery, State University of New York at Buffalo, August 1998.
79. Pediatric Spine: Consultant's Corner. Luncheon Seminar Speaker. 1998 Annual Meeting of the Congress of Neurological Surgeons. Seattle, Washington, October 3-8, 1998.
80. Spinal Stabilization in Children. Breakfast Seminar Moderator. 1999 Annual Meeting of the American Association of Neurological Surgeons. New Orleans, LA, April, 1999.
81. Tethered Cord Syndrome. Breakfast Seminar. 1999 Annual Meeting of the American Association of Neurological Surgeons. New Orleans, LA, April, 1999.
82. Unusual Dysraphic Malformations in Children. Breakfast Seminar. 1999 Annual Meeting of the American Association of Neurological Surgeons. New Orleans, LA, April, 1999.
83. Visiting Professor of Paediatric Neurosurgery, Wayne State University, Detroit, Michigan, June 1999.
84. Surgery of the Paediatric Spine. Luncheon Seminar. 1999 Annual Meeting of the Congress of Neurological Surgeons. Boston, MA, October 1999.
85. Surgical Management of Craniopharyngioma. Luncheon Seminar. 1999 Annual Meeting of the Congress of Neurological Surgeons. Boston, MA, October 1999.
86. Visiting Professor of Neurosurgery, Henry Ford Hospital, Department of Neurological Surgery, Detroit, Michigan, December 3 – 4, 1999.
87. Visiting Professor and Visiting Neurosurgeon, Hong Kong Neurological Society, The University of Hong Kong, and the Hospital Authority of Hong Kong, February 20 – 27, 2000.
88. Management of Closed Dysraphic Lesions. Breakfast seminar panelist. 2000 Annual meeting of the American Association of Neurological Surgeons. San Francisco, California April 8 – 13, 2000.

Invited Lectures, continued:

89. Evaluation and Management of Congenital Craniovertebral Anomalies. Breakfast Seminar panelist. 2000 Annual meeting of the American Association of Neurological Surgeons. San Francisco, California April 8 - 13, 2000.
90. Paediatric Glioma. Guest lecturer: Scientific Symposium at the official opening of the National Neuroscience Institute of Singapore. 25-26 July 2000.
91. Shunt Types and Brain Compliance. Guest Lecturer: Scientific Symposium at the official opening of the National Neuroscience Institute of Singapore. 25-26 July 2000.
92. Total Resection of Craniopharyngioma; Surgical techniques and outcome. Luncheon seminar, Annual Meeting of the Congress of Neurological Surgeons, San Antonio, Texas. 24-27 September 2000.
93. Split Cord Malformation. Luncheon seminar, Annual Meeting of the Congress of Neurological Surgeons, San Antonio, Texas. 24-27 September 2000.
94. Neuroembryology and Genetics of Double Spinal cord malformations. Elizabeth Crosby Lecturer. University of Michigan, Ann Arbor. Department of Neuroanatomy and Neurosurgery. June 26 -28, 2001.
95. Visiting Professor, University of Michigan, Ann Arbor. Department of Neurosurgery. June 26-28, 2001.
96. Paediatric Spine and Spinal Cord Injuries, New Advances. Symposium on the Paediatric Spine. Annual meeting of the Congress of Neurological Surgeons, San Diego, CA Sept 29-Oct 4, 2001.
97. Split Cord Malformation and other Occult Dysraphisms. Luncheon Seminar, Annual Meeting of the Congress of Neurological Surgeons, San Diego, CA Sept 29-Oct 4, 2001.
98. Cervical Spine Instability and Stabilization in Children. Special course in Cervical Spine Instability. Annual meeting of the American Association of Neurological Surgeons, Chicago, Illinois April 6-11 2002.
99. SCIWORA in Children. Discussant, plenary session. Annual meeting of the American Association of Neurological Surgeons, Chicago, Illinois. April 6-11 2002.

Invited Lectures, continued:

100. Genetics of Split Cord Malformation. Visiting Professor, Great Ormond Street Hospital for Children, University of London. June 9-12 2002.
101. Management of Craniovertebral Junction Anomalies. Visiting Professor, Great Ormond Street Hospital for Children, University of London. June 9-12 2002.
102. Mechanically elongated dorsal root ganglion axons sustains high growth rate. Discussant, plenary session. Annual meeting of the American Association of Neurological Surgeons, San Diego, California 26 April - 1 May 2003.
103. Correlation between Ossification patterns and strength of the cervical spine in children, using a caprine model. Discussant, plenary session. Annual meeting of the American Association of Neurological Surgeons, San Diego, California 26 April -1 May 2003.
104. Split cord malformation: embryogenesis, associated anomalies, and surgical management. Visiting Professor, University of California, San Francisco; 20 May 2003.
105. Thoroscopic correction of thoracic scoliosis in children. Second World Congress of the International Study Group of Neuroendoscopy. 11 - 13 September 2003, Naples, Italy
106. Atlantoaxial rotatory fixation Part I: Biomechanics of normal C1 C2 axial rotation in children, a normative study, and a new diagnostic paradigm. Annual meeting, Asian Australasian Congress for Neurological Surgeons. Singapore 22-26 November 2003.
107. Moderator: Session on Congenital spinal disorders in Children. Annual meeting, AANS/ CNS Paediatric Section. Salt Lake City, Utah 2-5 December 2003.
108. Total and near total resection of spinal cord lipomas, techniques and outcome. First Academic Congress of International Chinese Neurosurgical Sciences. Hainan Island, China March 25-28 2004.
109. Radical resection of craniopharyngiomas in children. First Academic Congress of International Chinese Neurosurgical Sciences. Hainan Island, China March 25-28 2004.
110. Atlanto-axial rotatory fixation in children, motion analysis of normal and abnormal biomechanics and a new diagnostic paradigm. First Academic Congress of International Chinese Neurosurgical Sciences. Hainan Island, China March 25-28 2004.
111. Atlanto-axial rotatory fixation in children, motion analysis of normal and abnormal biomechanics and a new diagnostic paradigm. Honoured guest, Hong Kong Neurosurgical Society meeting, Hong Kong, 29 April 2004.

Invited Lectures, continued:

112. Senior examiner, Neurosurgical trainees exit examination; Hong Kong Neurosurgical training program. Hong Kong 30th April 2004.
113. Quantification and Ossification patterns of paediatric cervical spine development. Discussant, Plenary Session, Annual Meeting American Association of Neurological Surgeons; Orlando, Florida 1-6 May 2004.
114. Total and Near Total Resection of Spinal Cord Lipomas, Techniques and Results, In Lucheon Seminar T 28, "Management of spinal dysrism including tethered spinal cord". 54th Annual Meeting of Congress of Neurological Surgeons, October 16th – 21st, 2004 San Francisco California.
115. Course Director Adult and Pediatric Spinal Trauma, 54th Annual Meeting of Congress of Neurological Surgeons, October 16th – 21st, 2004 San Francisco California.
116. Biomechanics of the juvenile spine in relation to spinal trauma. Practical Course PC 18 "Adult and Pediatric Trauma". 54th Annual Meeting of Congress of Neurological Surgeons, October 16th – 21st, 2004 San Francisco California.
117. General overview of pediatric spinal cord injury. Practical Course PC 18 "Adult and Pediatric Trauma". 54th Annual Meeting of Congress of Neurological Surgeons, October 16th – 21st, 2004 San Francisco California.
118. Spinal Cord Injury Without Radiographic Abnormality in Children, SCIWORA Syndrome, Current Status, Practical Course PC 18 "Adult and Pediatric Trauma". 54th Annual Meeting of Congress of Neurological Surgeons, October 16th – 21st, 2004 San Francisco California.
119. Atlanto-occipital dislocation: Occipital - C₁ Interval measurment and new dignostic paradigm. Practical Course PC 18 "Adult and Pediatric Trauma". 54th Annual Meeting of Congress of Neurological Surgeons, October 16th – 21st, 2004 San Francisco California.
120. Pure ligamentous injury in adolescents. Practical Course PC 18 "Adult and Pediatric Trauma". 54th Annual Meeting of Congress of Neurological Surgeons, October 16th – 21st, 2004 San Francisco California.
121. Techniques of occipital-C₁-C₂ instrumentation fusion in young children, The Inside-Outside Screw Fixation Technique. Practical Course PC 18 "Adult and Pediatric Trauma". 54th Annual Meeting of Congress of Neurological Surgeons, October 16th – 21st, 2004 San Francisco California.
122. Tenchique of C₁- C₂ fusion in very young children. Practical Course PC 18 "Adult and Pediatric Trauma". 54th Annual Meeting of Congress of Neurological Surgeons, October 16th – 21st, 2004 San Francisco California.

Invited Lectures, continued:

123. Atlanto-axial rotatory fixation (AARF): New Diagnostic Paradigm and New Classification. Practical Course PC 18 "Adult and Pediatric Trauma". 54th Annual Meeting of Congress of Neurological Surgeons, October 16th – 21st, 2004 San Francisco California.
124. Odontoid dysgenesis and spinal cord trauma. Practical Course PC 18 "Adult and Pediatric Trauma". 54th Annual Meeting of Congress of Neurological Surgeons, October 16th – 21st, 2004 San Francisco California.
125. Moderator: Congenital Malformations. Annual Meeting of the Pediatric Section of AANS, December 9th–12th, 2004 San Francisco California.
126. The surgical techniques of ventriculoperitoneal shunt, diagnosis and treatment. International Society of Pediatric Neurosurgeons (ISPN), Course on Pediatric Neurosurgery, August 19th – 24th, 2005 Hong Kong.
127. Split cord Malformation, embryogenesis and surgical management, radical resection of complex spinal cord lipomas, clinical and surgical durations. International Society of Pediatric Neurosurgeons (ISPN), Course on Pediatric Neurosurgery, August 19th – 24th, 2005 Hong Kong.
128. Cerebral Arterio venous malformation, general considerations and surgical treatment. International Society of Pediatric Neurosurgeons (ISPN), Course on Pediatric Neurosurgery, August 19th – 24th, 2005 Hong Kong.
129. Craniopharyngioma Part I general consideration. International Society of Pediatric Neurosurgeons (ISPN), Course on Pediatric Neurosurgery, August 19th – 24th, 2005 Hong Kong.
130. Craniopharyngioma Part II, surgical considerations. International Society of Pediatric Neurosurgeons (ISPN), Course on Pediatric Neurosurgery, August 19th – 24th, 2005 Hong Kong.
131. Surgical Techniques of Arteriovenous malformation & surgical techniques of resection of cerebral AVMs. Video Seminar. International Society of Pediatric Neurosurgeons (ISPN), Course on Pediatric Neurosurgery, August 19th – 24th, 2005 Hong Kong.
132. Moderator. Epilepsy. International Society of Pediatric Neurosurgeons (ISPN), Course on Pediatric Neurosurgery, August 19th – 24th, 2005 Hong Kong.
133. Craniovertebral Junction Malformation. Diagnosis and Treatment. International Society of Pediatric Neurosurgeons (ISPN), Course on Pediatric Neurosurgery, August 19th – 24th, 2005 Hong Kong.
134. Spinal Cord Lipoma: Clinical and Surgical considerations. International Society of Pediatric Neurosurgeons (ISPN), Course on Pediatric Neurosurgery, August 19th – 24th, 2005 Hong Kong.

Invited Lectures, continued:

135. Caudal Regression Syndrome. International Society of Pediatric Neurosurgeons (ISPN), Course on Pediatric Neurosurgery, August 19th – 24th, 2005 Hong Kong.
136. Course Director: Practical Course on Adult and Paediatric Spinal Surgery. Annual Meetings of the Congress of Neurological Surgeons. October 8th - 13th, 2005 Boston Massachusetts.
137. Craniovertebral junction anomalies, embryogenesis and surgical treatment. Annual Meetings of the Congress of Neurological Surgeons. October 8th - 13th, 2005 Boston Massachusetts.
138. Atlanto - Axial Rotatory Fixation, Biomechanics, New Diagnostic Paradigm based on CT analysis, and management outcome. Annual Meetings of the Congress of Neurological Surgeons. October 8th - 13th, 2005 Boston Massachusetts.
139. Atlanto - Occipital dislocation, New diagnostic method, clinical presentation and surgical management. Annual Meetings of the Congress of Neurological Surgeons. October 8th - 13th, 2005 Boston Massachusetts.
140. Biomechanics of Pediatric Cervical Spine Injury. Annual Meetings of the Congress of Neurological Surgeons. October 8th - 13th, 2005 Boston Massachusetts.
141. Inside – Outside Screw technique for occipital - cervical instrumentation in children. Annual Meetings of the Congress of Neurological Surgeons. October 8th - 13th, 2005 Boston Massachusetts.
142. Course Director: Adult and Paediatric Spinal Cord Surgery Practical Course. Annual Meeting of Neurological Congress October 8th - 13th, 2005 Boston Massachusetts.
143. The mathematical prediction of hemorrhage rate and morbidity and mortality of cerebral arteriovenous malformation in children. Surgical risk and management. Visiting Professor, University of Hong Kong and Hong Kong Neurosurgical society. October 15th – 17th, 2005 Hong Kong.
144. Video Seminar: Surgical resection of deep cerebral arteriovenous malformation. Visiting Professor, University of Hong Kong and Hong Kong Neurosurgical society. October 15th – 17th, 2005 Hong Kong.
145. Some disorders of the pediatric spine. Breakfast seminar. Annual meeting of the American Association of neurologists. April 20th – 27th, 2006. San Francisco, California.
146. Tumor of the Fourth Ventricle – Brainstem motor mapping and surgery of the brainstem. National University of Singapore and the National Neurological Institute: Pediatric Neurosurgery Symposium. May 2nd – 6th, 2006 Singapore.

Invited Lectures, continued:

147. Tumor of the Fourth Ventricle – Video presentation of microsurgical techniques. University of Singapore and the National Neurological Institute: Pediatric Neurosurgery Symposium. May 2nd – 6th, 2006 Singapore.
148. Craniovertebral Junction: Embryology, Anatomy, and Congenital Anomalies and their management. University of Singapore and the National Neurological Institute: Pediatric Neurosurgery Symposium. May 2nd – 6th, 2006 Singapore.
149. Physics of hydrocephalic states: Brain compliance and physics of shunt systems. University of Singapore and the National Neurological Institute: Pediatric Neurosurgery Symposium. May 2nd – 6th, 2006 Singapore.
150. Management of complex hydrocephalus. University of Singapore and the National Neurological Institute: Pediatric Neurosurgery Symposium. May 2nd – 6th, 2006 Singapore.
151. Techniques of Ventriculoperitoneal shunting. University of Singapore and the National Neurological Institute: Pediatric Neurosurgery Symposium. May 2nd – 6th, 2006 Singapore.
152. Craniopharyngioma in children – Therapeutic options. Visiting Professor. Sun Yat San University. May 2006, Guangzhou, China.
153. Craniopharyngioma in children – Techniques of radical excision and post- operative complications. Visiting Professor. Sun Yat San University. May 2006, Guangzhou, China.
154. Complex Spinal Cord Lipomas – Complete and Near – Complete resection: Techniques, results and outcome. Visiting Professor. Sun Yat San University. May 2006, Guangzhou, China.
155. Atlanto – Axial Rotatory Fixation: Biomechanics, new diagnostic paradigm using computer tomographic motion analysis, and prospective study of management outcome. Second International Chinese Neuroscience Symposium. May 17th – 21st, 2006, Chongqing, China.
156. Split cord malformation: Embryogenesis, Morphology and surgical management. Second International Chinese Neuroscience Symposium. May 17th – 21st, 2006, Chongqing, China.
157. Senior Examiner for the Graduating class of neurosurgical registrars. Visiting Professor and Surgeon. University of Hong Kong and Hong Kong Hospital Authority. May 2006, Hong Kong.
158. Craniopharyngioma in children – Therapeutic options. Visiting Professor and Surgeon. University of Hong Kong and Hong Kong Hospital Authority. May 2006, Hong Kong.
159. Craniopharyngioma in children – Techniques of radical excision and post- operative complications. Visiting Professor and Surgeon. University of Hong Kong and Hong Kong Hospital Authority. May-2006, Hong Kong.

Invited Lectures, continued:

160. Tumor of the Fourth Ventricle – Brainstem motor mapping and surgery of the brainstem. Visiting Professor and Surgeon. University of Hong Kong and Hong Kong Hospital Authority. May 2006, Hong Kong.
161. Tumor of the Fourth Ventricle – Video presentation of microsurgical techniques. Visiting Professor and Surgeon. University of Hong Kong and Hong Kong Hospital Authority. May 2006, Hong Kong.
162. Physics of hydrocephalic states. Visiting Professor and Surgeon. University of Hong Kong and Hong Kong Hospital Authority. May 2006, Hong Kong.
163. Biomechanics of the Juvenile Spine and Spinal Injuries Peculiar to Children. Satellite Symposium. 34th Annual Meeting of the International Society for Pediatric Neurosurgery. September 9-10, 2006 Taiwan.
164. Moduator. Session on Spinal Dysraphism. 34th Annual Meeting of the International Society for Pediatric Neurosurgery. September 9-10, 2006 Taiwan.
165. Course Director. Practical course on Adult and Pediatric Spinal Trauma Surgery. 56th Annual Meeting. Congress of Neurological Surgeons. October 7-12, 2006. Chicago. Illinois.
166. Biomechanics of the Juvenile Spine and SCIWORA. Practical Course. 56th Annual Meeting. Congress of Neurological Surgeons. October 7-12, 2006. Chicago. Illinois.
167. Atlanto-Occipital Dislocation and Odontoid Dysgenesis. Practical Course. 56th Annual Meeting. Congress of Neurological Surgeons. October 7-12, 2006. Chicago. Illinois.
168. Subaxial Pure Ligamentous Injuries in Children. Practical Course. 56th Annual Meeting. Congress of Neurological Surgeons. October 7-12, 2006. Chicago. Illinois.
169. Embryology of Spinal Dysraphism and it's Neurosurgical Relevance. Annual Meeting of the American Society of Pediatric Neurosurgery. January 29 – February 2, 2007. Lanai. Hawaii.
170. Atlanto-Occipital Dislocation in Children. A new Diagnostic Criterion And Paradigm. Annual Meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves. March 7-10, 2007. Phoenix, Arizona.
171. Biomechanics of the Juvenile Spine, Atlanto-Occipital Dislocation and other Spinal Injuries Peculiar to Children. Breakfast Seminar on Pediatric Spine Surgery. Annual Meeting of the American Association of Neurological Surgeons. April 15 -20, 2007. Washington, D.C.

Invited Lectures, continued:

172. Embryogenesis of Spinal Dysraphic malformations. Visiting Professor. Great Ormond Street Hospital for sick children, University of London, June 18th 2007. London, United Kingdom.
173. Embryogenesis of Spinal Dysraphic malformations. The Annual Meeting of the International Society for Paediatric Neurosurgeons (ISPN), September 9th – 13th, 2007. Liverpool, UK.
174. Total Resection of Complex Spinal Cord Lipomas and Complete Reconstruction of the Neural Placode. Pride or Prejudice? The Annual Meeting of the International Society for Paediatric Neurosurgeons (ISPN), September 9th – 13th, 2007. Liverpool, UK.
175. Clash of the Titans: Pang versus Zerah. Session on Spinal Cord Lipomas. The Annual Meeting of the International Society for Paediatric Neurosurgeons (ISPN), September 9th – 13th, 2007. Liverpool, UK.
176. Moderator-Chairman: Craniovertebral Junction Anomalies in Childhood. The Annual Meeting of the International Society for Paediatric Neurosurgeons (ISPN), September 9th – 13th, 2007. Liverpool, UK.
177. Total resection of spinal cord lipomas and complete reconstruction of the neural placode. Video seminar. The Annual Meeting of the International Society for Paediatric Neurosurgeons (ISPN), September 9th – 13th, 2007. Liverpool, UK.
178. Atlanto-Occipital Dislocation. Condyle-C1 Interval (CCI), A New Diagnostic Criterion. In Practical Course on Paediatric and Adult spinal trauma. Annual meeting, Congress of Neurological surgeons. September 15th – 20th, 2007. San Diego, California
179. Total resection of complex spinal cord lipoma. Practical Course: Debates on spinal dysraphism. Annual meeting, Congress of Neurological surgeons. September 15th – 20th, 2007. San Diego, California
180. Consult with the Experts. Interactive session for Paediatric Neurosurgery. Annual meeting, Congress of Neurological surgeons. September 15th – 20th, 2007. San Diego, California
181. Surgically applicable embryology of some spinal cord malformations. Paediatric Neurosurgery grand rounds: Great Ormond Street Hospital for Sick Children, London, England. 6th Sept., 2007.
182. Embryology of spinal dysraphic malformations. The Annual Meeting of the International Society for Paediatric Neurosurgery, 35th Annual meeting. September 9th – 13th, 2007; Liverpool, UK.

Invited Lectures, continued:

183. Total/near-total resection of complex spinal cord lipomas and complete reconstruction of the neural placode: surgical technique and long term outcome. The Annual Meeting of the International Society for Paediatric Neurosurgery, 35th Annual meeting. September 9th – 13th, 2007; Liverpool, UK.
184. Clash of the titans: Pang versus Zerah: “Radical resection of spinal lipoma and reconstruction of the placode, pride or prejudice?” OR “Surgery of asymptomatic lipoma of conus; much ado about nothing or as you like it?” The Annual Meeting of the International Society for Paediatric Neurosurgery, 35th Annual meeting. September 9th – 13th, 2007; Liverpool, UK.
185. Total/near-total resection of complex spinal cord lipomas and complete reconstruction of the neural placode: surgical technique. Video session. The Annual Meeting of the International Society for Paediatric Neurosurgery, 35th Annual meeting. September 9th – 13th, 2007; Liverpool, UK.
186. Moderator and panel discussant: session on spinal cord diseases. The Annual Meeting of the International Society for Paediatric Neurosurgery, 35th Annual meeting. September 9th – 13th, 2007; Liverpool, UK.
187. World Federation of Neurosurgical Societies, 13th Interim Meeting/ The 12th Asian-Australasian Congress of Neurological Surgeons. November 18th-22nd, 2007. Nagoya, Japan.
188. Total/near-total resection of complex spinal cord lipomas and complete reconstruction of the neural placode: surgical technique and long term outcome. World Federation of Neurosurgical Societies, 13th Interim Meeting/ The 12th Asian-Australasian Congress of Neurological Surgeons. November 18th-22nd, 2007. Nagoya, Japan.
189. Total/near-total resection of complex spinal cord lipomas and complete reconstruction of the neural placode: surgical technique ; Evening Video seminar. World Federation of Neurosurgical Societies, 13th Interim Meeting/ The 12th Asian-Australasian Congress of Neurological Surgeons. November 18th-22nd, 2007. Nagoya, Japan.
190. Honoured as the Legend in Paediatric Spine Disorders, by the Joint section in Spine and Peripheral Nerves of the American Association of Neurological Surgery and the Congress of Neurological Neurosurgeons. Annual Meeting of the Joint Section on Spine and Peripheral Nerves of AANS and CNS. Feb 26th to March 1st, 2008. Orlando, FL
191. Management of Paediatric Cervical spine injuries: Cervical injuries peculiar to (but not exclusive in) Children. Annual Meeting of the Joint Section on Spine and Peripheral Nerves of AANS and CNS. Feb 26th to March 1st, 2008. Orlando, FL
192. Dysraphic spinal cord malformations. Embryogenesis and surgical treatments. Visiting professor: Sun Y Sen University, March 19th to 25th 2008. Guang Zhou, China.

Invited Lectures, continued:

193. Total resection of complex spinal cord lipomas and radical reconstruction of the neural placode. Technique and long term outcome. Visiting professor: Sun Yat Sen University, March 19th to 25th 2008. Guang Zhou, China.
194. Congenital anomalies involving the odontoid process ; embryology and treatment. Visiting professor: Sun Yat Sen University, March 19th to 25th 2008. Guang Zhou, China.
195. Physics of hydrocephalus and technique of accurate placement of ventricular catheter during ventriculoperitoneal shunt insertion. Visiting professor: Sun Yat Sen University, March 19th to 25th 2008. Guang Zhou, China.
196. Live surgery demonstration : resection of a dorsal spinal cord lipoma. Visiting professor: Sun Yat Sen University, March 19th to 25th 2008. Guang Zhou, China.
197. Surgery of the Fourth ventricle ; brain stem mapping. Visiting professor : Hong Kong Hospital Authority and Tuen Mun Hospital, March 26th to 29th, 2008. Hong Kong.
198. Craniopharyngioma resection and results. Visiting professor : Hong Kong Hospital Authority and Tuen Mun Hospital, March 26th to 29th, 2008. Hong Kong.
199. Spectrum of paediatric spinal cord injuries. Panel speaker ; Breakfast seminar; Paediatric spinal injuries. Annual meeting of the Americal Association of neurological surgeons. April 26th to May 1st 2008. Chicago, Illinois.
200. Embryogenesis in Spinal Dysraphism. Teaching rounds, Paediatric neurosurgery and neurooncology. Great Ormond Street Hospital for Sick Children, NHS Trust. 10th June, 2008. London, England.
201. Panel speaker: Course on Adult and paediatric spinal injuries: Atlanto-occipital dislocation in children. A new diagnostic criterion and paradigm Annual meeting of the Congress of Neurological surgeons. Sept 20th to 25th 2008. Orlando, Florida.
202. Embryogenesis of dysraphic spinal cord malformations. Annual meeting of the International Society of Paediatric Neurosurgeons; October 12th to 16th 2008. Cape Town, South Africa.
203. Spectrum of paediatric spinal and spinal cord injuries. Annual meeting of the International Society of Paediatric Neurosurgeons; October 12th to 16th 2008. Cape Town, South Africa.
204. Craniovertebral junction anomalies : embryological approach and surgical considerations. Annual meeting of the International Society of Paediatric Neurosurgeons; October 12th to 16th 2008. Cape Town, South Africa.

Invited Lectures, continued:

205. Clash of the Titans II : part 2 of a debate: Prophylactic surgical resection of asymptomatic spinal cord lipomas versus non-surgical management. Pang versus Zerah and Debate to follow. Annual meeting of the International Society of Paediatric Neurosurgeons; October 12th to 16th 2008. Cape Town, South Africa.
206. Limited dorsal myeloschisis : A distinct clinicopathological entity. Annual meeting of the Indian Society for Paediatric Neurosurgeons. Nov 1st to 6th, 2008. India.
207. Total resection of complex spinal cord lipomas : surgical technique and outcome. Annual meeting of the Indian Society for Paediatric Neurosurgeons. Nov 1st to 6th, 2008. India.
208. Brain stem motor mapping. Annual meeting of the Indian Society for Paediatric Neurosurgeons. Nov 1st to 6th, 2008. India.
209. Electrophysiological monitoring for spinal cord surgery ; a practical approach. Annual meeting of the Indian Society for Paediatric Neurosurgeons. Nov 1st to 6th, 2008. India.
210. Video demonstration : Total resection of lipoma and radical reconstruction of the neural placode. Annual meeting of the Indian Society for Paediatric Neurosurgeons. Nov 1st to 6th, 2008. India.
211. Video seminar: Surgical handling of a complex chaotic lipoma , an unedited video journey including monitoring techniques. Annual meeting of the Indian Society for Paediatric Neurosurgeons. Nov 1st to 6th, 2008. India.
212. Embryology, anatomy and surgical management of craniovertebral junction anomalies. International Society of Paediatric Neurosurgery course. Nho Chi Minh City, Vietnam, 8th, 9th and 10th, January, 2009.
213. Chiari II malformation: the relevance of neurogenic dysphagia and surgical treatment. International Society of Paediatric Neurosurgery course. January 8th to 10th, 2009. Nho Chi Minh City, Vietnam.
214. Embryogenesis of dysraphic malformations of the spinal cord. . International Society of Paediatric Neurosurgery course. January 8th to 10th, 2009. Nho Chi Minh City, Vietnam.
215. Radical resection of large craniopharyngiomas, techniques and results of surgery. International Society of Paediatric Neurosurgery course. January 8th to 10th, 2009. Nho Chi Minh City, Vietnam.
216. Complications of radical resection of craniopharyngiomas in children. . International Society of Paediatric Neurosurgery course. January 8th to 10th, 2009. Nho Chi Minh City, Vietnam.
217. The spectrum of paediatric spinal cord and spinal column injuries. . International Society of Paediatric Neurosurgery course. January 8th to 10th, 2009. Nho Chi Minh City, Vietnam.

Invited Lectures, continued:

218. Limited dorsal myeloschisis: a distinctive clinicopathological entity. Visiting scholar, presented at the Hong Kong Neurosurgical Society Scientific Meeting. January 12th to 13th, 2009. Hong Kong
219. Embryology, anatomy, and surgical management of craniovertebral junction anomalies. Visiting scholar, presented at the Hong Kong Neurosurgical Society Scientific Meeting. January 12th to 13th, 2009. Hong Kong
220. Neurosurgical Rounds and case presentations : Tuen Mun Hospital, Hong Kong Hospital Authority. January 12th, 2009. Hong Kong
221. Pediatric Spinal Cord and Spinal Column Injuries. Breakfast Seminar. Annual Meeting of the American Association of Neurological Surgeons. May 2-6 2009. San Diego, CA
222. Radical resection of large craniopharyngiomas in children. Surgical technique, therapeutic options and complication. Visiting professor, University of Calgary, Alberta, Canada. 9th May to 12th May, 2009
223. Total and near-total resection of complex spinal cord lipoma and complete reconstruction of the neural placode: surgical technique and long term outcome. Visiting professor, University of Calgary, Alberta, Canada. 9th May to 12th May, 2009.
224. Neurosurgical Rounds and Case presentations. Visiting Professor, University of Calgary, Alberta, Canada. 9th May to 12th May, 2009.
225. Brain stem mapping during posterior fossa operations. Visiting Professor University of Hong Kong : Symposium for Techniques and Principles of Intraoperative Neurophysiology Monitoring: 5-6th, August, 2009
226. Intraoperative electrophysiology monitoring during operations for spinal dysraphic malformations. Visiting Professor University of Hong Kong : Symposium for Techniques and Principles of Intraoperative Neurophysiology Monitoring : 5-6th, August, 2009
227. Surgery of the posterior fossa, medulloblastoma and exophytic brain stem glioma : video presentation. Visiting professor, University of Cape Town : Symposium for Paediatric Neurosurgery: 8-9th August, 2009
228. Surgical techniques, results, and post-operative complications : Radical resection of craniopharyngiomas in children. Visiting professor, University of Cape Town : Symposium for Paediatric Neurosurgery: 8-9th August, 2009

Invited Lectures, continued:

229. Embryology of spinal dysraphic malformations. Visiting professor, University of Cape Town: Symposium for Paediatric Neurosurgery: 8-9th August, 2009
230. Total/near total resection of complex spinal cord lipomas and radical reconstruction of the spinal cord: surgical technique and long term outcomes. Visiting professor, University of Cape Town: Symposium for Paediatric Neurosurgery: 8-9th August, 2009
231. Total resection of spinal cord lipomas : Video presentation. Visiting professor, University of Cape Town :Symposium for Paediatric Neurosurgery: 8-9th August, 2009
232. Embryology of the cerebellum and brainstem relevant to surgery of the posterior fossa Visiting professor, University of Cape Town :Symposium for Paediatric Neurosurgery: 8-9th August, 2009
233. Intraoperative electrophysiology monitoring during surgery of the conus. Visiting professor, University of Cape Town :Symposium for Paediatric Neurosurgery: 8-9th August, 2009
234. The use of intraoperative neurophysiology monitoring during surgery for spinal dysraphic malformations. The Fred Epstein Memorial Lecturer. Second Congress of the International Society for Intraoperative Neurophysiologists. 9th to 12th November, 2009, Dubrovnik, Croatia.
235. Shunts and the physics of hydrocephalus : the matching of shunt types and pressures with hydrocephalic patients profiles. Visiting professor, Yonsei University, South Korea, 4th April, 2010.
236. Atlanto-occipital dislocation and spinal stabilization in young children . Visiting professor, Seoul National University, South Korea, 5th April, 2010.
237. Retained medullary cord, a new dysraphic entity. Visiting professor, Seoul National University, South Korea, 5th April, 2010.
238. Complete resection of complex spinal cord lipoma and reconstruction of neural placode. Video session. Visiting professor, Seoul National University, South Korea, 5th April, 2010.
239. Embryology of spinal dysraphic malformations. Visiting professor, Asan University, South Korea, 6th April, 2010.
240. Total resection of complex spinal cord lipomas, surgical technique and long term outcome. Honoured visiting professor's lecture, The 28th Annual Spring Meeting of the Korean Neurosurgical Society. 8-10th April, 2010 Bexco Convention Center, Busan, Korea
241. Brain stem mapping and resection of intrinsic brain stem tumours in children. Symposium for intraoperative technologies for neurosurgery. 2nd to 7th June, 2010. Beijing, China.

Invited Lectures, continued:

242. Intraoperative neurophysiology monitoring for spinal dysraphic malformation surgery. Symposium for intraoperative technologies for neurosurgery. 2nd to 7th June, 2010, Beijing, China
243. Radical resection of large craniopharyngiomas in children and immediate surgical complications. Visiting professor's lecture, Symposium for neurosurgery, Sun Yat-Sen University, 7th to 9th June, 2010. Guangzhou, China
244. Embryology and bony malformations of the craniovertebral junction. Visitor professor, Department of Paediatric neurosurgery, Great Ormond Street Hospital for Sick Children, 20th September, 2010. London, UK.
245. Menu for surgery in asymptomatic spinal dysraphism : the indisputable, nearly indisputable, perhaps indisputable, and definitely disputable lesions. in Annual meeting of the International Society for Paediatric Neurosurgeons. 30 Oct 2010 to 4th Nov 2010, Jeju Island, Korea.
246. Embryogenesis of spinal dysraphic malformations. in Annual meeting of the Dutch Spine society, 5th Nov 2010, Nijmegen, The Netherlands.
247. Intraoperative electrophysiology for spinal dysraphic malformations Annual meeting of the International Society for Intraoperative neurophysiologists. 6th to 7th Nov., 2010, Groningen, The Netherlands.
248. Total and near-total resection of complex spinal cord lipomas, with radical reconstruction of neural placode : surgical technique and long term outcome. Annual meeting of the Neurosurgical Society of India, 16th-19th Dec., 2010, Jaipur, India.
249. Craniovertebral Junction : embryology, genetic control, morbid anatomy, bony malformations and their surgical management. Annual meeting of the Neurosurgical Society of India, 16th-19th Dec., 2010, Jaipur, India.
250. Overview, embryology, and classification of spinal dysraphism. The NSI Symposium on spinal dysraphism, 19th Dec., 2010, Jaipur, India.
251. Retained medullary cord in human; late arrest of secondary neurulation. The NSI Symposium on spinal dysraphism, 19th Dec., 2010., Jaipur, India.
252. Instrumentation Fusion of the Craniovertebral junction in very young children; surgical indications and techniques. Special grand rounds, Department of Neurosurgery, Tuen Mun Hospital, Hospital Authority, 20th-24th Dec., 2010, Hong Kong
253. Total and near-total resection of complex spinal cord lipomas, with radical reconstruction of neural placode: surgical technique and long term outcome. XI Congreso Nacional de la Sociedad Espanola de Neurocirujanos. 9th to 11th March, 2011. Albacete, Spain.

Invited Lectures, continued:

254. Embryology and Congenital Malformations of the Craniovertebral Junction. XI Congreso Nacional de la Sociedad Espanola de Neurorquis. 9th to 11th March, 2011. Albacete, Spain.
255. Biomechanics of the Paediatric Spine and Cervical Spine Injuries Peculiar to Children : Clinico-Therapeutic Considerations. XI Congreso Nacional de la Sociedad Espanola de Neurorquis. 9th to 11th March, 2011. Albacete, Spain.
256. Craniovertebral Junction Part 1: Embryology and genetic control of development. Visiting professor for commissioned training on paediatric craniovertebral junction disorders. The Hospital Authority of Hong Kong, The Neurosurgical Society of Hong Kong, and Tuen Mun Hospital, 1st to 13th August, 2011, Hong Kong.
257. Craniovertebral junction: Part 2: Bony malformations and their surgical management. Visiting professor for commissioned training on paediatric craniovertebral junction disorders. The Hospital Authority of Hong Kong, The Neurosurgical Society of Hong Kong, and Tuen Mun Hospital, 1st to 13th August, 2011, Hong Kong.
258. Craniovertebral junction: Part 3 : Occipito-cervical instrumentation fusion techniques. Visiting professor for commissioned training on paediatric craniovertebral junction disorders. The Hospital Authority of Hong Kong, The Neurosurgical Society of Hong Kong, and Tuen Mun Hospital, 1st to 13th August, 2011, Hong Kong.
259. Atlanto-occipital dislocation: new diagnostic paradigm and surgical treatment. Visiting professor for commissioned training on paediatric craniovertebral junction disorders. The Hospital Authority of Hong Kong, The Neurosurgical Society of Hong Kong, and Tuen Mun Hospital, 1st to 13th August, 2011, Hong Kong.
260. Intraoperative neurophysiological monitoring for spinal dysraphic malformations : clinical and technical aspects. Visiting professor and guest neurosurgeon : Yang Ming University of Taiwan, Taipei, and the Veneral Hospital of Taipei, 7-10th August, 2011. Taipei, Taiwan.
261. Craniovertebral Junction Part 1 :: Embryology and genetic control of development. Visiting professor and guest neurosurgeon : Yang Ming University of Taiwan, Taipei, and the Veneral Hospital of Taipei, 7-10th August, 2011. Taipei, Taiwan.
262. Craniovertebral junction: Part 2 : Bony malformations and their surgical management. Visiting professor and guest neurosurgeon : Yang Ming University of Taiwan, Taipei, and the Veneral Hospital of Taipei, 7-10th August, 2011. Taipei, Taiwan.
263. Total and near-total resection of complex spinal cord lipoma and radical reconstruction of the neural placode: Surgical technique and long term outcome. Visiting professor and guest neurosurgeon : Yang Ming University of Taiwan, Taipei, and the Veneral Hospital of Taipei 7-10th August, 2011. Taipei, Taiwan.

Invited Lectures, continued:

264. Total and near-total resection of complex spinal cord lipomas and radical reconstruction of the neural placode: surgical techniques and long term outcome. Visiting professor, University of Utah, Department of Neurosurgery, Salt Lake city, Utah: 6th to 7th Sept., 2011.
265. Embryogenesis of Spinal dysraphic malformations and its surgical relevance. Visiting professor, University of Utah, Department of Neurosurgery, Salt Lake city, Utah: 6th to 7th Sept., 2011.
266. Surgical treatment of paediatric cervical spine injuries; what happens to the growing child? Paediatric neurosurgery symposium; World Federation of Neurological Surgery Interim Meeting; Recife, Brazil: 12th to 16th Sept., 2011.
267. Total and near-total resection of complex spinal cord lipomas and radical reconstruction of the neural placode: surgical techniques and long term outcome Luncheon seminar, Annual meeting of the Congress of Neurological Surgery, Washington, DC: 3rd to 7th Oct., 2011:
268. Craniovertebral Malformations : Developmental Pathology and its influence on management decisions. Annual meeting of the International Society of Paediatric Neurosurgeons. Goa, India; 14th to 20th Oct., 2011.
269. Anatomy and Embryology of craniocervical junction: How they influence treatment. Advance course in paediatric neurosurgery; Calcutta, India; 22nd to 24th Oct., 2011.
270. New paradigm in the management of complex spinal cord lipomas. Advance course in paediatric neurosurgery; Calcutta, India; 22nd to 24th Oct., 2011.
271. Split cord malformations: theory of embryogenesis and surgical treatment. Advance course in paediatric neurosurgery; Calcutta, India; 22nd to 24th Oct., 2011.
272. Embryology and Bony Malformations of the Craniovertebral Junction: Science and Surgery. The Cruzamora Visiting Professorship; University of Miami, Miami, Florida; 9th to 11th Nov., 2011.
273. Total and Near-total Resection of Complex Spinal Cord Lipomas and Complete Reconstruction of the Neural Placode: Surgical Technique and Long-Term Outcome. The Cruzamora Visiting Professorship; University of Miami, Miami, Florida; 9th to 11th Nov., 2011.
274. Tethered cord syndrome, culpable lesions and the risk and benefit ratios of their surgical management. First Sino-American Paediatric Neurosurgery Summit Forum; and the 2012 Chinese Paediatric Neurosurgery seminar. Nanjing, China, 19th to 23rd April, 2012.

Invited Lectures, continued:

275. Radical surgery for complex spinal cord lipomas: technical high lights and long term outcome. First Sino-American Paediatric Neurosurgery Summit Forum; and the 2012 Chinese Paediatric Neurosurgery seminar. Nanjing, China, 19th to 23rd April, 2012.
276. Comprehensive intraoperative neurophysiological monitoring in surgery for spinal dysraphism. First Sino-American Paediatric Neurosurgery Summit Forum; and the 2012 Chinese Paediatric Neurosurgery seminar. Nanjing, China, 19th to 23rd April, 2012.
277. Congenital bony malformations of the posterior skull base in children; in Round Table Discussion: Paediatric skull base surgery. The 6th International Congress of the World Federation of Skull Base Societies, and the 10th European Skull base society congress. Brighton, UK; 16th - 19th May, 2012.
278. Total resection of complex spinal cord lipomas: surgical technique and long term outcome. Visiting professor, University of Leeds; Department of Neurosurgery, Leeds, UK; 22nd -24th May, 2012
279. Congenital bony malformations of the craniovertebral junction: embryology and surgical management. Visiting professor, University of Leeds, Department of Neurosurgery, Leeds, UK; 22nd -24th May, 2012
280. Visiting paediatric neurosurgeon: Radical resection of transitional spinal cord lipoma. Great Ormond Street Hospital for Sick Children. London, UK; 26th May, 2012.
281. Surgical anatomy of the brachial plexus relevant to neurophysiological monitoring for peripheral nerve surgery of the upper extremity. Educational course: Neurophysiological monitoring of Spinal and Orthopaedic Surgery. Course sponsored by Neuromonitoring -United Kingdom (NM-UK). Edinburgh, UK; 21st - 22nd June, 2012
282. Live cadaver dissection demonstration course of the brachial plexus. Anatomy department, Edinburgh University Medical School. Educational course: Neurophysiological monitoring of Spinal and Orthopaedic Surgery. Course sponsored by Neuromonitoring -United Kingdom (NM-UK). Edinburgh, UK; 21st - 22nd June, 2012
283. Intraoperative neurophysiological monitoring for surgery of spinal dysraphic malformations. The Royal College of Surgeons, Edinburgh. Educational course: Neurophysiological monitoring of Spinal and Orthopaedic Surgery. Course sponsored by Neuromonitoring -United Kingdom (NM-UK). Edinburgh, UK; 21st - 22nd June, 2012
284. First do no harm in spinal dysraphism: the use of intraoperative electrophysiology in surgery for spinal dysraphism. Invited Lecture. The 40th Annual meeting of the International Society for Paediatric Neurosurgeons. Sydney, Australia; 9th 14th, September, 2012.

Invited Lectures, continued:

285. Moderator for Case Presentation Session: Pineal tumour and Intaspinal cyst. The 40th Annual meeting of the International Society for Paediatric Neurosurgeons. Sydney, Australia; 9th 14th, September, 2012.
286. Embryology and surgical treatment of spinal dysraphic malformations. International Society for Intraoperative Neurophysiologist Educational Course on Intraoperative Neurophysiology in Neurosurgery: Surgery of the spine and spinal cord. Lazise-Verona, Italy: 18 – 22 Oct., 2012.
287. Intraoperative neurophysiological monitoring in surgery for spinal dysraphism. International Society for Intraoperative Neurophysiologist Educational Course on Intraoperative Neurophysiology in Neurosurgery: Surgery of the spine and spinal cord. Lazise-Verona, Italy: 18 – 22 Oct., 2012.
288. Surgery of the craniovertebral junction: an embryological perspective. International Society for Intraoperative Neurophysiologist Educational Course on Intraoperative Neurophysiology in Neurosurgery: Surgery of the spine and spinal cord. Lazise-Verona, Italy: 18 – 22 Oct., 2012.
289. Total resection of complex spinal cord lipomas : surgical technique and long term outcome. Symposium on Occult Spinal Dysraphism and the Tethered Cord Syndrome. Milan, Italy: 22nd to 24th Oct., 2012.
290. Malformations of secondary neurulation: retained medullary cord and terminal myelocystocoele. Symposium on Occult Spinal Dysraphism and the Tethered Cord Syndrome. Milan, Italy: 22nd to 24th Oct., 2012.
291. Moderator : Craniovertebral junction fixations and Spinal deformity correction : Hands on workshop on Saw bones. Annual Conference of the Indian Society of Paediatric Neurosurgery (Neuropedicon 2012) ; and the Preconference International Society of Paediatric Neurosurgery (ISPN) Course and International CME. Delhi, India: 1st - 4th November 2012.
292. Tips and Pearls for instrumentation at the Craniovertebral Junction. Annual Conference of the Indian Society of Paediatric Neurosurgery (Neuropedicon 2012) ; and the Preconference International Society of Paediatric Neurosurgery (ISPN) Course and International CME. Delhi, India: 1st - 4th November 2012.
293. How to fix Pediatric Craniovertebral junction : Hands on Demo by Dachling Pang. Annual Conference of the Indian Society of Paediatric Neurosurgery (Neuropedicon 2012) ; and the Preconference International Society of Paediatric Neurosurgery (ISPN) Course and International CME. Delhi, India: 1st - 4th November 2012.

Invited Lectures, continued:

294. Interesting case discussions on complex pediatric CVJ and spinal deformities(Dachling Pang/Sandip Chatterjee/SS Kale/Martina Messing. Annual Conference of the Indian Society of Paediatric Neurosurgery (Neuropedicon 2012) ; and the Preconference International Society of Paediatric Neurosurgery (ISPN) Course and International CME. Delhi, India: 1st - 4th November 2012.
295. Chairman: **CME on Craniospinal dysraphism**. Annual Conference of the Indian Society of Paediatric Neurosurgery (Neuropedicon 2012) ; and the Preconference International Society of Paediatric Neurosurgery (ISPN) Course and International CME. Delhi, India: 1st - 4th November 2012.
296. Debate: Lipomyelomeningocele: the pros and cons of a conservative and an aggressive approach. Annual Conference of the Indian Society of Paediatric Neurosurgery (Neuropedicon 2012): and the Preconference International Society of Paediatric Neurosurgery (ISPN) Course and International CME. Delhi, India: 1st - 4th November 2012.
297. On craniopharyngiomas: Craniopharyngiomas: the reasons for an aggressive microsurgical tumor removal. Annual Conference of the Indian Society of Paediatric Neurosurgery (Neuropedicon 2012): and the Preconference International Society of Paediatric Neurosurgery (ISPN) Course and International CME. Delhi, India: 1st - 4th November 2012.
298. SCIWORA and current guidelines of management. Annual Conference of the Indian Society of Paediatric Neurosurgery (Neuropedicon 2012) ; and the Preconference International Society of Paediatric Neurosurgery (ISPN) Course and International CME. Delhi, India: 1st - 4th November 2012.
299. Bhagwati Oration : Prof Dachling Pang : The embryogenesis of spinal dysraphic malformations (This includes 3-5 min for your introduction by indian faculty prior to your presentation. Annual Conference of the Indian Society of Paediatric Neurosurgery (Neuropedicon 2012) ; and the Preconference International Society of Paediatric Neurosurgery (ISPN) Course and International CME. Delhi, India: 1st to 4th November 2012.
300. Total resection of complex spinal cord lipomas, surgical techniques and long term outcome: an analysis of 315 patients. Special invited lecture. 41st annual meeting of the Japanese Society of Paediatric Neurosurgeons. Osaka, Japan, 5th June to 10th June, 2013
301. Embryology of bony malformations of the craniovertebral junction. Keynote speaker. 41st annual meeting of the Japanese Society of Paediatric Neurosurgeons. Osaka, Japan, 5th June to 10th June, 2013

Invited Lectures, continued:

302. Management of asymptomatic spinal cord lipomas. Pre-Congress course in paediatric neurosurgery : Management of asymptomatic neurosurgical lesions in childhood. World Federation of Neurosurgical Societies (WFNS) Congress. Seoul, Korea, 8th to 12th Sept. 2013.
303. Surgical treatment and outcome of 315 complex spinal cord lipomas. Luncheon symposium on Spinal dysraphism. World Federation of Neurosurgical Societies (WFNS) Congress. Seoul, Korea, 8th to 12th Sept. 2013.
304. Chair. Plenary Session on Spinal and brain malformations. World Federation of Neurosurgical Societies (WFNS) Congress. Seoul, Korea, 8th to 12th Sept. 2013.
305. Introductory speech for Professor Kyu Chang Wang's presidential address to the International Society of Paediatric Neurosurgeons (ISPN). Annual meeting of the International Society of Paediatric Neurosurgeons, 28th September to 3rd October, 2013, Mainz, Germany.
306. Centre for paediatric neurosurgery in a children's hospital: the eutopian model. Commissioned Training for the new Hong Kong Children's Hospital. Tuen Mun Hospital, Hong Kong. 22-25 Jan., 2014.
307. Safe rendering of paediatric neurosurgical operations in a new theatre: the use of intraoperative neurophysiological monitoring. Commissioned Training for the new Hong Kong Children's Hospital. Tuen Mun Hospital, Hong Kong. 22-25 Jan., 2014.
308. Collaboration in the theatre: a surgeon's perspective. Commissioned Training for the new Hong Kong Children's Hospital. Tuen Mun Hospital, Hong Kong. 22-25 Jan., 2014.
309. Summary session : what have we learned in the organising of a paediatric neuroscience department. Commissioned Training for the new Hong Kong Children's Hospital. Tuen Mun Hospital, Hong Kong. 22-25 Jan., 2014.
310. Spinal dysraphic malformations: embryology, surgery, and how to ensure good results. Joint annual meeting of the Swiss Society of Neurosurgery, Swiss Society of Neurology, and Swiss Society of Neurophysiology. Zurich, Switzerland, 12-14th June, 2014.
311. Surgery teaching sessions for complex spinal cord lipoma and lipoma with extraspinal extension. Visiting professor, Great Ormond Street Hospital for Children, NHS Trust. London, United Kingdom, 22nd-27th September, 2014.
312. Total resection of complex spinal cord lipomas : how, why, and when to operate. 73rd Annual Meeting of the Japanese Neurosurgical Society (JNS), and the paediatric surgery course for the International Society of Paediatric Neurosurgeons (ISPN). Tokyo, Japan, 8th-12th October, 2014.

Invited Lectures, continued:

313. Spinal dysraphic malformations: embryogenesis, surgery, and why is intraoperative neurophysiology monitoring so vital. **Baldev Singh Oration**. At the annual meeting of the Neurosurgical Society of India, Coimbatore, India, 9th to 15th Dec., 2014.
314. Bony malformations of the craniovertebral junction, from science to surgery. The NSICON CME Course, at the annual meeting of the Neurosurgical Society of India, Coimbatore, India, 9th to 15th Dec., 2014.
315. The use of intraoperative Neurophysiology monitoring during surgery for spinal dysraphic malformations. The inaugural meeting of the First Asia-Australasian Society of Paediatric Neurosurgeons; Taiwan, 20 to 22 nd March, 2015.
316. Uncommon secondary neurulation malformations : retained medullary cord, terminal myelocystocoele, and unjointed primary and secondary neural tubes. Plenary session; The 14th annual meeting of the Asian-Australasian Congress of Neurological Surgeons. Jeju Island, South Korea. 15th to 18th April, 2015.
317. Limited dorsal myeloschisis : an unusual but not-so-rare primary neurulation malformations . Main topic presentation. The 14th annual meeting of the Asian-Australasian Congress of Neurological Surgeons. Jeju Island, South Korea. 15th to 18th April, 2015.
318. Surgery for spinal dysraphism: what could go wrong. In controversies in paediatric neurosurgery. Teaching Course; International Society for Paediatric Neurosurgeons. The 14th annual meeting of the Asian-Australasian Congress of Neurological Surgeons. Jeju Island, South Korea. 15th to 18th April, 2015.
319. The use of intraoperative neurophysiology monitoring in spinal dysraphism surger: how does it improve surgical results? European Association of Neurosurgical Societies (EANS) Special Symposium : Intraoperative Neurophysiology in Neurosurgery. Verona, Italy. 13th – 16th June, 2015
320. Intraoperative neurophysiological monitoring (IONM) verifying the embryogeneses of Retained Medullary Cord, Terminal Myelocystocoele, and other rare secondary neurulation malformations. European Association of Neurosurgical Societies (EANS) Special Symposium : Intraoperative Neurophysiology in Neurosurgery. Verona, Italy. 13th – 16th June, 2015
321. Total resection of complex spinal cord lipomas and radical reconstruction of the neural placode. Video presentation. European Association of Neurosurgical Societies (EANS) Special Symposium : Intraoperative Neurophysiology in Neurosurgery. Verona, Italy. 13th – 16th June, 2015

NATIONAL PRESENTATIONS

1. Pang D, Gutai J, Rosenbaum A, Wilberger JE: Metrizamide CT cisternography for diagnosing occult hypothalamic axis lesions in children. Presented at the 9th annual meeting of the Pediatric Section of the American Association of Neurological Surgeons in New York, NY. December 5, 1980.
2. Pang D, Rosenbaum A, Gutai J, Wilberger JE: The current necessity for metrizamide CT cisternography in the diagnosis of occult hypothalamic axis lesions in children. Presented at the 30th annual meeting of the Congress of Neurological Surgeons. Houston, TX, October 5-10, 1980.
3. Pang D, Wilberger JE: Traumatic atlanto-occipital dislocation with survival in children. Presented at the 7th International Congress of Neurological Surgery, Munich, Germany. July 12-18, 1981.
4. Pang D, Wilberger JE: Spinal cord injuries without radiographic abnormalities in children. Presented at the 31st annual meeting of the Congress of Neurological Surgeons, Los Angeles, CA. October 22, 1981.
5. Pang D: Syringomyelia and hydromyelia. Moderator, How To Do It Session. 31st annual meeting of the Congress of Neurological Surgeons, Los Angeles, CA. October 22, 1981.
6. Pang D, Wilberger JE: Spinal cord injuries without radiographic abnormalities in children. Presented at the 10th annual meeting of the Pediatric Section of the American Association of Neurological Surgeons, Dallas, TX. December 5, 1981.
7. Wilberger JE, Pang D: Syndrome of the incidental herniated lumbar disc. Presented at the 51st annual meeting of the American Association of Neurological Surgeons, Honolulu. Hawaii, April 12-18, 1982.
8. Pang D, Canine model of intraventricular hemorrhage and intraventricular urokinase. Presented at the Research Society of Neurological Surgeons meeting, Seattle, WA. June 11, 1982.
9. Wilberger JE, Pang D: Syndrome of the incidental herniated lumbar disc. Presented at the 68th annual Clinical Congress of the American College of Surgeons, Chicago, IL. October 24-30, 1982.
10. Pang D, Wilberger JE: Adult tethered cord syndrome. Presented at the 32nd annual meeting of the Congress of Neurological Surgeons, Toronto, Canada. October 3-8, 1982.
11. Horton JA, Pang D, Latchaw RC: Embolization of intramedullary spinal cord arteriovenous malformations. Presented at the 12th Symposium of Neuroradiology, Washington, DC. October 10-16, 1982.

NATIONAL PRESENTATIONS (continued):

12. Wilberger JE, Pang D: Intraventricular use of urokinase in canine models of intraventricular hemorrhage. Pittsburgh Neuroscience Society Meeting, Pittsburgh, PA. October 15, 1982.
13. Pang D, Horton JA, Wilberger JE, Vries JK: Nonsurgical management of extradural hematomas in children. Presented at the 11th annual meeting of the Pediatric Section of the American Association of Neurological Surgeons, San Francisco, CA. December 9, 1982.
14. Wilberger JE, Pang D: Incidental herniated lumbar disc. Pittsburgh Academy of Medicine Meeting, Pittsburgh, PA. January 25, 1983.
15. Pang D: Pathophysiology of head trauma. Head Trauma: Beyond the Basics, Harnmarville Rehabilitation Center, Pittsburgh, PA. February 26, 1983.
16. Pang D: Spinal cord injury in children and young adults. Evening Lecture Series, Issues and Trends in Rehabilitation, The Rehabilitation Institute of Pittsburgh, Pittsburgh, PA. May 25, 1983.
17. Wilberger JE, Pang D: Prognosis for visual recovery following suprasellar surgery. Presented at the 52nd annual meeting of the American Association of Neurological Surgeons. Washington, DC. April 24-28, 1983.
18. Pang D, Intraventricular hemorrhage in the newborn. Moderator, Luncheon Discussion Group Session, Meeting of the Congress of Neurological Surgeons, Chicago, IL. November 1, 1983.
19. Pang D, Wilberger JE, Horton JA: Intraventricular use of urokinase in canine models of intraventricular hemorrhage. Presented at the annual meeting of the Congress of Neurological Surgeons, Chicago, IL. November 1, 1983.
20. Pang D, Casey K: Use of anal sphincter pressure monitor during operations on the sacral spinal cord and nerve roots. Presented at the meeting of the Pediatric Section of the American Association of Neurological Surgeons, Toronto, Canada. December 1, 1983.
21. Pang D, Germak AJ, Horton JA: Precocious puberty model in rhesus monkey with microsurgical implantation of third ventricular microballoon. The annual meeting of the American Association of Neurological Surgeons, San Francisco, CA. April 10, 1984.
22. Germak JA, Pang D, Horton JA: Precocious menarche in the rhesus monkey associated with a microballoon implanted into the third cerebral ventricle. Presented at the meeting of the 7th International Congress of Endocrinology, Quebec, Canada, July 1984.
23. Pang D, Sciabassi RJ, Horton JA: Intraventricular blood clot lysis with urokinase in canine intraventricular hemorrhage. Presented at the meeting of the American Association of Neurological Surgeons, Atlanta, GA. April 23, 1985.

NATIONAL PRESENTATIONS (continued):

24. Pang D: Medical overview of traumatic brain injury. Harmarville Rehabilitation Center, Harmarville, PA. October 4, 1986.
25. Pang D, Ryan C, Polinko P, Orman E: Neurobehavioral syndromes following translamina terminalis resection of large craniopharyngioma in children. Presented at the annual meeting of the Pediatric Section of American Association of Neurological Surgeons, Pittsburgh, PA. December 5, 1986.
26. Dias M, Pang D, Claasen D: Cervical Myelomeningocele, Clinicopathological aspects and new theory of embryogenesis, AANS Spinal Section meeting. Boca Ratan, FL, January 15, 1987.
27. Pollack I, Pang D, Sclabassi R: Recurrent SCIWORA. Annual Meeting of Congress of Neurological Surgeons. Baltimore, MD, October 25-29, 1987.
28. Dias MS, Pang D, Claasen D: Cervical myelomeningocele - Description and a new theory regarding embryogenesis. Annual Meeting, Pediatric Section, AANS, Chicago, IL, December 8-11, 1987.
29. Pang D, Dias MS: The split cord syndrome: A unified theory of "double-cord" malformations. Annual Meeting, AANS, Toronto, Canada, April 24-28, 1988.
30. Pang D, Pollack I: Spinal cord injury without radiographic abnormality -- The SCIWORA Syndrome. A Review of 55 cases. Annual Meeting of the Congress of Neurological Surgeons, Seattle, WA, September 24-29. 1988.
31. Dias M, Pang D, Albright A: The need for CSF shunts in children with post fossa tumors. American Association of Neurological Surgeons/Pediatric Section, Scottsdale, AZ, December 6-9, 1988.
32. Pang D, Pollack I: Cerebrospinal fluid pleural fistulae. Joint Section on Disorders of the Spine and Peripheral Nerves, American Association of Neurological Surgeons and Congress of Neurological Surgeons, Cancun, MX, February 11-15, 1989.
33. Dias M, Pang D: Juvenile intervertebral disc calcification. Pediatric Section of the American Association of Neurological Surgeons, Washington, DC, November 28-December 1, 1989.
34. Altschuler E, Pang D, Stephanian E: Management of persistent ventriculomegaly due to altered brain compliance. Pediatric Section of the American Association of Neurological Surgeons, Washington, DC, November 28-December 1, 1989.

NATIONAL PRESENTATIONS (continued):

35. Ramasastry SS, Ramirez O, Pang D: Experimental and clinical considerations in the closure of large meningocele defects with bilateral latissimus dorsi - gluteus maximus flaps. Pediatric Section of the American Association of Neurological Surgeons, Washington, DC, November 28-December 1, 1989.
36. Pollack IF, Pang D, Kocoshis S: Neurogenic dysphagia resulting from Chiari malformations. Pediatric Section of the American Association of Neurological Surgeons, Washington, DC, November 28-December 1, 1989.
37. Thompson G, Pang D: Tectal plate gliomas in children. Pediatric Section of the American Association of Neurological Surgeons, Boston, MA, December 3-6, 1991.
38. Grabb P, Pang D, Albright AL: Cerebrospinal Fluid Dissemination of Supratentorial Malignant Gliomas in Children. Pediatric Section of the American Association of Neurological Surgeons, Boston, MA, December 3-6, 1991.
39. Swift D, Pang D: Unusual manifestations of large para-third ventricular arachnoid cysts in childhood and their treatment with transcallosal marsupialization. American Association of Neurological Surgeons, Los Angeles, CA, April 11-16, 1992.
40. Swift D, Pang D: Surgical management of naso-frontal dermoids. International Society of Skull Base Surgeons annual meeting Hannover, Germany, June 15-18, 1992.
41. Grabb PA, Pang D, Hirsch W: Magnetic Resonance Imaging in the Evaluation of Children with Spinal Cord Injury Without Radiographic Abnormality. Pediatric Section of the American Association of Neurological Surgeons, Vancouver, BC, Canada, December 6-9, 1992.
42. Li V, Albright AL, Pang D: The role of somatosensory evoked potentials in the timing of tethered cord release. American Association of Neurological Surgeons Annual Meeting, Boston, MA, April 24-29, 1993.
43. Pang D, Pollack IF: The longterm outcome in children with late-onset aqueductal stenosis resulting from low-grade tectal gliomas. Congress of Neurological Surgeons Annual Meeting. Vancouver, Canada, October 2-7, 1993.
44. Li V, Pang D: Atlantoaxial rotatory fixation in children; new diagnostic criteria and management. Congress of Neurological Surgeons Annual Meeting. Chicago, IL October 1-6, 1994.
45. Pang D, Sun P: Neurenteric cyst in split cord malformations. 1994 Annual Meeting of the Pediatric Section of American Association of Neurological Surgeons. St. Louis, MO, December 6-8, 1994.

NATIONAL PRESENTATIONS (continued):

46. Pang D, Gilmer- Hill H: Intraventricular pilocytic astrocytoma in the neonate. Annual Meeting, AANS / CNS Paediatric Section 2-6 Scottsdale, Arizona, December 2002
47. Pang D, Li, V: Atlantoaxial Rotatory Fixation Part I, Biomechanics of normal C1 C2 rotation in children. Annual Meeting of the American Society of Paediatric Neurosurgeons, February 2006

LOCAL PRESENTATIONS

1. Pang D, Wilberger JE, Horton JA: Intraventricular use of urokinase in canine models of intraventricular hemorrhage. Pittsburgh Neuroscience Society meeting, Pittsburgh, PA, October 15, 1982.
2. Wilberger JE, Pang D: Incidental herniated lumbar disc. Pittsburgh Academy of Medicine meeting, Pittsburgh, PA, January 25, 1983.
3. Pang D: Pathophysiology of head trauma. Head Trauma: Beyond the Basics. Harmarville Rehabilitation Center, Pittsburgh, PA, February 26, 1983.
4. Pang D: Spinal cord injury in children and young adults. Evening Lecture Series, Issues and Trends in Rehabilitation, The Rehabilitation Institute of Pittsburgh, Pittsburgh, PA, May 24, 1983.
5. Pang D: The physics of closed head injury and pathophysiologic correlates of head injury syndromes. Pediatric Head Injury Conference, Pittsburgh, PA, November 14-15, 1985.
6. Pang D: Medical overview of traumatic brain injury. Harmarville Rehabilitation Center, Harmarville, PA, October 4, 1986.
7. Pang D: Craniopharyngioma and invasive pituitary adenoma. Panel discussion. International Symposium on Cranial Base Surgery, Pittsburgh, PA, September 17, 1988.
8. Pang D: Surgical aspects of craniopharyngiomas and Neurobehavioral syndromes following translamina terminalis. Department of Neurological Surgery Grand Rounds. University of California, Davis Medical Center, Sacramento, CA, September 15, 1993.
9. Pang D: Tethered Cord Syndrome. Sutter Hospitals Neurosurgical Grand Rounds. Sutter General Hospital, Sacramento, CA, January 25, 1994.
10. Pang D: Part I: Adult Tethered Cord. Department of Neurology Grand Rounds, University of California, Davis Medical Center, Sacramento, CA, February 10, 1994.

Local Presentations, continued:

11. Pang D: Part II: Adult Tethered Cord. Department of Neurology Grand Rounds, University of California, Davis Medical Center, Sacramento, CA, March 10, 1994.
12. Pang D: Thoracic Outlet Syndrome. Department of Neurological Surgery Grand Rounds, University of California, Davis Medical Center, Sacramento, CA, May 18, 1994.
13. Pang D: Pediatric Brain Tumors. The Sacramento Area Brain Tumor Support Group. University of California, Davis Medical Center, Sacramento, CA, May 19, 1994.
14. Pang D: Management of Spina Bifida. Spina Bifida Support Group. Sacramento, CA, October 6, 1994.
15. Pang D: Pediatric Head Injury. UCDMC Annual Trauma is Teamwork Symposium. Sacramento, CA, October 21, 1994.
16. Pang D: Shunt and Brain Tumor Research. Brain Tumor Support Group. Sacramento, CA, May 18, 1995.
17. Pang D: Spinal Cord Lipoma. Department of Neurological Surgery Grand Rounds, University of California, Davis Medical Center, Sacramento, CA, June 21, 1995.
Pang D: SCIWORA. UCDMC Annual Trauma is Teamwork Symposium. Sacramento, CA, October 14, 1996.
18. Pang D: Spinal Cord Trauma. Department of Pediatrics Grand Rounds, University of California, Davis Medical Center, Sacramento, CA, January 31, 1997.
19. Pang D: Pathophysiology of Closed Brain Trauma. Trauma Research Lecture. University of California, Davis Medical Center, Sacramento, CA, February 24, 1997.
20. Pang D: Central Nervous System Tumors. Department of Neurology Residents' Lecture. University of California, Davis Medical Center, Sacramento, CA, May 2, 1997.

POSTER EXHIBITS

1. Intraventricular blood clot lysis with urokinase. The American Heart Association, Northcentral Pennsylvania Chapter Annual Meeting, Lewisburg, PA, June 17,
2. Magnetic Resonance Imaging in the evaluation of Spinal Cord Injury Without Radiographic Abnormality in Children, American Association of Neurological Surgeons, Pediatric Section Annual Meeting, Vancouver, BC, Canada, December, 1992.
3. Technical Note: Accurate Placement of Coronal Ventricular Catheter Using Stereotactic Coordinates-Guided Free Hand Passage. American Association of Neurological Surgeons Annual Meeting, April 24-29, 1993, Boston, MA

GRANTS

Funded

1. TITLE: Lysis of Intraventricular Blood Clot with Urokinase
AGENCY: National Institute of Neurological and Communicable Disease and Stroke RO-1
NS 23110-01
AMOUNT: \$426,000
DATES: 1986-1989
PRINCIPAL: Dachling Pang, M.D.
CO-PI: N/A
STATUS: Inactive
2. TITLE: Otolith-Ocular Responses
AGENCY: Department of Health and Human Services/Public Health Services Grant
AMOUNT: \$378,437
DATES: 1990-1993
PRINCIPAL: Joseph M.R. Furman, M.D., PhD
CO-PI: Dachling Pang, M.D. Efforts 5%
STATUS: Inactive

GRANTS (cont.)

3. TITLE: The In Vivo Measurement of Blood Brain Barrier Disruption Using CSF Mannitol Clearance Curves in a Canine Cryogenic Brain Injury Model
 AGENCY: Copeland Foundation Grant, Department of Neurosurgery, University of Pittsburgh
 AMOUNT: \$11,000
 DATES: 1988-1990
 PRINCIPAL: Dachling Pang, M.D. Effort 20%
 CO-PI: David Engle, M.D.
 STATUS: Inactive

4. TITLE: Magnetic Measurements of Peripheral Nerve Function
 AGENCY: NINCDS RO1 - NS19794
 AMOUNT: \$900,000
 DATES: 1986-1989
 PRINCIPAL: Wikswow, John P. Jr.
 CO-PI: Dachling Pang, M.D.
 STATUS: Inactive

5. TITLE: Lysis of Intraventricular Blood Clot with Urokinase in a Canine Model.
 AGENCY: American Heart Association of Pennsylvania Affiliate, Grant-in-Aid #8163
 AMOUNT: \$7,044
 DATES: 1980-1981
 PRINCIPAL: Dachling Pang, M.D.
 CO-PI: N/A
 STATUS: Inactive

6. TITLE: Precocious puberty in female rhesus monkey with third ventricular implantation of microballoon
 AGENCY: BRSG, Medical College of Wisconsin, #ED 2507RRO5434
 AMOUNT: \$5,000
 DATES: 1982-1983
 PRINCIPAL: Dachling Pang, M.D.
 CO-PI: John Germak, M.D.
 STATUS: Inactive

7. TITLE: Precocious puberty in female rhesus monkey with third ventricular implantation of microballoon
AGENCY: Research and Publications Committee, Grant *83-17M/
AMOUNT: \$4,400
DATES: 1983-1984
PRINCIPAL: Dachling Pang, M.D.
CO-PI: John Germak, M.D.
STATUS: Inactive
8. TITLE: Precocious puberty in female rhesus monkey with third ventricular implantation of microballoon.
AGENCY: BRSG/State University of New York at Stonybrook
AMOUNT: \$5,000
DATES: 1984-1985
PRINCIPAL: Dachling Pang, M.D.
CO-PI: John Germak, M.D.
STATUS: Inactive

C: cvpang.07/2015

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June 26, 2014

Dachling Pang, MD
Department of Neurological Surgery
UC Davis School of Medicine

Dear Dr. Pang:

Congratulations on your reappointment into the Volunteer Clinical Faculty without salary (WOS) series at the level of Clinical Professor, effective from July 1, 2014 to June 30, 2019. The School of Medicine considers the volunteer clinical faculty to be an integral partner in the fulfillment of our educational missions. We greatly appreciate your willingness and desire to participate in our teaching programs.

As a Volunteer Clinical Faculty member, you are entitled to free access to over 40,000 online journals and hundreds of online medical books - from your office or home. To set up an account, contact the Blaisdell Medical Library at _____ or _____. Experienced medical librarians are available to assist you.

I invite you to review the Academic Personnel Manual, Sections 279, found at _____.

Renewal of your appointment will require documentation of a teaching contribution of 50 hours or more per year for an assistant, associate and full clinical professor, 49 hours or less for appointment as a clinical instructor. Consideration for promotion will occur every 8-10 years. Your department will notify you when it is time for a review.

We look forward to a productive and rewarding relationship, and I hope you find your participation as a teacher in our School to be as inspiring, fulfilling, and mutually educational as I have.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Edward J. Callahan'.

Edward J. Callahan, Ph.D.

Associate Dean of Academic Personnel

140637W
10/12/13

12 FEB 13 17:15:02

10/12/13
10/12/13



School of Medicine
University of California
Davis, California

*The School of Medicine at the
University of California, Davis certifies*

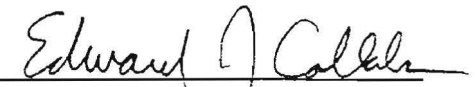
Dachling Pang, M.D.

*as a member of the volunteer faculty
with the academic rank of*

Clinical Professor

Department of Neurological Surgery


Department Chairperson


Dean

NOV 14 1998
12:55:15 PM '98
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License Number: 43126
Current Date: 06/17/2016 11:12 AM

Name:	PANG, DACHLING
License Type:	Physician and Surgeon C
License Status:	License Renewed & Current
Expiration Date:	03/31/2017
School Name:	ONT01 - UNIVERSITY OF TORONTO FACULTY OF MEDICIN
Date of Graduation:	01/01/1972
Original Issuance Date:	08/25/1993

Addresses

Address of Record (Required)	Address
	3600 Broadway Ste 39 OAKLAND, CA ALAMEDA 94611-5730 United States View on a map

Survey Information

The following information is self-reported by the licensee and has not been verified by the Board.

Are you retired?	No
Activities in Medicine	Administration - 1-9 Hours Other - None Patient Care - 40+ Hours Research - 10-19 Hours Teaching - 1-9 Hours Telemedicine - None
Patient Care Practice Location	Zip: 94611 County: ALAMEDA
Patient Care Secondary Practice Location	Not identified
Telemedicine Practice Location	Not identified
Telemedicine Secondary Practice Location	Not identified
Current Training Status	Not in Training
Areas of Practice	Neurological Surgery - Primary
Board Certifications	American Board of Neurological Surgery - Neurological Surgery
AOA Board Certifications	No AOA board certifications identified

Survey Information

The following information is self-reported by the licensee and has not been verified by the Board.

Postgraduate Training Years	9+ Years
Cultural Background	Declined to Disclose
Foreign Language Proficiency	Cantonese
	German
	Mandarin
	Other Chinese
Gender	Male

Public Record Actions

Administrative Disciplinary Actions	None found
Court Order	None found
Misdemeanor Conviction	None found
Probationary License	None found
Felony Conviction	None found
Malpractice Judgment	None found
Hospital Disciplinary Action	None found
License Issued with Public Letter of Reprimand (Non-Disciplinary)	None found
Administrative Citation Issued	None found
Administrative Action Taken by Other State or Federal Government	None found
Arbitration Award	None found
Malpractice Settlements	None found

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Dachling Pang (ABMSUID - 5747)

Viewed:6/17/2016 2:22:01 PM CST

DOB: 00/00/1947
Education: Year Unknown MD (Doctor of Medicine)
Address: Chldn Hosp of Pittsburgh
 Dept NS
 125 Desoto St
 Pittsburgh, PA 15213-2583 (United States)

Individual NPI**Show Active Medical License(****Certification:****American Board of Neurological Surgery****Neurological Surgery - General****Status: Certified**

Status	Duration	Occurrence	Start Date - End Date	* Participating in MOC
Active	Lifetime	Initial Certification	05/01/1984 -	Not Required ?

Learn more about Neurological Surgery MOC program¹ **NPI: Not for Primary Source Verification (PSV).**² **State of Licensure provided by Federation of State Medical Boards (FSMB): Not for Primary Source Verification (PSV).**

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ATTACHMENT 4

CURRICULUM VITAE

JOSEF E. GOREK, M.D.

280 West MacArthur Boulevard
Oakland, CA 94611

CURRENT PRACTICE

Regional Spinal Surgery
The Permanente Medical Group, Inc
Oakland, CA 94611
August 1996 - Present

Chief – Regional Spinal Surgery
2001 - 2006

EDUCATION AND TRAINING

Fellowship

Orthopaedic Spine Surgery
Johns Hopkins Hospital
Baltimore, MD 21287
John P. Kostuik, M.D., Chief
July 1995 - July 1996

Private Practice

Orthopaedic Surgery
California Orthopaedics and Sports Medicine Assoc.
Long Beach, CA 90518
July 1994 - June 1995

Residency Training

Orthopaedic Surgery
Los Angeles County Harbor - UCLA Medical Center
Torrance, CA 90509
Daniel M. Zinar, M.D., Chief
June 1990 - June 1994

Internship

Los Angeles County Harbor - UCLA Medical Center
Torrance, CA 90509
William S. Stryker, M.D., Chief
June 1989 - June 1990

Medical School

University of California at Los Angeles
Los Angeles, CA 90024
September 1984 - May 1989

Undergraduate

University of California at Berkeley
Berkeley, CA 94720
September 1980 - June 1984
B.A. - Biochemistry

RESEARCH

Orthopaedic Surgery Division, Department of Surgery, U.C.L.A.
School of Medicine
May 1987 - May 1988

Department of Orthopaedics, U.C. Davis School of Medicine
June - August 1986

Biochemistry Department, U.C. Berkeley
May 1983 - May 1984

PUBLICATIONS

Gorek J, Acaroglu E, Berven S, Yousef A, Puttlitz CM: Constructs incorporating intralaminar C2 screws provide rigid stability for atlantoaxial fixation. *Spine* 30(13):1513-8. Jul 2005

Kilgus DJ, Gorek JE, Namba RS: Total Hip Replacement for Patients Who Have Ankylosing Spondylitis. The Importance of the Formation of Heterotopic Bone and of the Durability of Fixation of Cemented Components. *J.B.J.S. Am.* 72(6):834-39, 1990.

Markolf K, Gorek JE, Kabo M, Shapiro MS: Direct Measurement of Resultant Forces in the Anterior Cruciate Ligament. An In-Vitro Study Performed With a New Experimental Technique. *J.B.J.S. Am.* 72(4):557-67, 1990.

Turner WD, Vasseur P, Gorek JE, Rodrigo JJ, Wedell JP: An In-Vitro Study of the Structural Properties of Deep-frozen Versus Freeze-dried, Ethylene Oxide-Sterilized Canine Anterior Cruciate Ligament Bone, Ligament-Bone Preparations. *C.O.R.R.* 230:251-256, 1988.



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License Number: 71664
Current Date: 06/17/2016 11:19 AM

Name:	GOREK, JOSEF ERNST
License Type:	Physician and Surgeon G
License Status:	License Renewed & Current
Expiration Date:	08/31/2016
School Name:	CA014 - UNIVERSITY OF CALIFORNIA, LOS ANGELES SC
Date of Graduation:	01/01/1989
Original Issuance Date:	06/25/1991

Addresses

Address of Record (Required)	Address
	275 W MacArthur Blvd OAKLAND, CA ALAMEDA 94611-5641 United States View on a map

Survey Information

The following information is self-reported by the licensee and has not been verified by the Board.

Are you retired?	No
Activities in Medicine	Patient Care - 40+ Hours
Patient Care Practice Location	Zip: 94611 County:
Patient Care Secondary Practice Location	Not identified
Telemedicine Practice Location	Not identified
Telemedicine Secondary Practice Location	Not identified
Current Training Status	Not in Training
Areas of Practice	Spine Surgery - Primary
Board Certifications	American Board of Orthopaedic Surgery - Orthopaedic Surgery
AOA Board Certifications	No AOA board certifications identified
Postgraduate Training Years	6 Years
Cultural Background	Declined to Disclose
Foreign Language Proficiency	Declined to Disclose
Gender	Male

Public Record Actions

Administrative Disciplinary Actions
None found

Court Order	None found
Misdemeanor Conviction	None found
Probationary License	None found
Felony Conviction	None found
Malpractice Judgment	None found
Hospital Disciplinary Action	None found
License Issued with Public Letter of Reprimand (Non-Disciplinary)	None found
Administrative Citation Issued	None found
Administrative Action Taken by Other State or Federal Government	None found
Arbitration Award	None found
Malpractice Settlements	None found

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Josef Ernst Gorek (ABMSUID - 616493)

Viewed:6/17/2016 2:22:59 PM CST

DOB: Private
Education: 1989 MD (Doctor of Medicine)
Address: 280 W Macarthur Blvd
 Oakland, CA 94611-5642 (United States)

Individual NPI

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Certification:



American Board of Orthopaedic Surgery

Orthopaedic Surgery - General

Status: Certified

Status	Duration	Occurrence	Start Date - End Date	Participating in MOC
Active	Time-Limited	Recertification	01/01/2010 - 12/31/2019	Yes
Expired	Time-Limited	Initial Certification	07/16/1999 - 12/31/2009	

[Learn more about Orthopaedic Surgery MOC program](#)

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² **State of Licensure provided by Federation of State Medical Boards (FSMB): Not for Primary Source Verification (PSV).**



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ATTACHMENT 5

Krammie M. Chan, M.D.

Chief of Department of Radiology
Sub-Chief of Magnetic Resonance Imaging
Kaiser Permanente Medical Center
3600 Broadway, Oakland, CA 94611
Tel:
Fax:
E-Mail:

Position Subregional Chief of Radiology of GSAA, CVA and
East Bay Kaiser Permanente Medical Center

Personal Information

Medical Licensure State of California, U.S.A. #A054042

Board Certification Diagnostic Radiology, American Board of Radiology, 1995
American Board Certified Neuroradiology (CAQ), 2008

Education

8/1986 - 5/1990: Duke University Medical Center
Durham, North Carolina, U.S.A.
Doctor of Medicine

8/1984 - 5/1986: University of North Carolina
Chapel Hill, North Carolina, U.S.A.
Bachelor of Arts, Chemistry
Magna Cum Laude

8/1982 - 5/1984: University of North Carolina at Charlotte
Charlotte, North Carolina, U.S.A.
Major: Chemistry

Employment

9/1997 - Present:	Department of Radiology Kaiser Permanente Medical Center, Oakland, California, U.S.A.
7/1996 - 6/1997:	Clinical Instructor in Diagnostic Neuroradiology University of California, San Francisco, California, U.S.A.
7/1995 - 6/1996:	Clinical Fellow in Diagnostic Neuroradiology University of California, San Francisco, California, U.S.A.
7/1991 - 6/1995:	Resident in Diagnostic Radiology University of Arizona Medical Center Tucson, Arizona, U.S.A.
7/1990 - 6/1991:	Intern in Transitional Medicine Tucson Hospitals Medical Education Program, Inc. Tucson, Arizona, U.S.A.

Honors and Awards

1991 - 1992:	First place in Radiology Case of the Week
1986 - 1990:	North Carolina Board of Governors Award
1984 - 1986:	Honors in college: Phi Eta Sigma
1982 - 1983:	Freshman Chemistry Award
1982 - 1986:	Dean's List

Memberships

American Society of Neuroradiology (Senior member)
Radiological Society of North America

Committees

Chair, MRI SST of NPC since 2001
Chair of NCAL Radiology Regional Neuroradiology protocol
team 2010
Member of Mobile Imaging SST of NPC since 2013
2014-15 Content Expert Process Committee Member for KP
Medical Imaging Department Planning
Chief sponsor, NCAL regional Neuroradiology Group
Sponsor of NCAL Kaiser Neuroradiology Subspecialty
Group, 2014

Teaching Activities

- 7/1995 - Present: ENT Tumor Board
 ENT Residents' Teaching Conference
 Pediatric Neurosurgery Tumor Board
 Emergency Room Conference
 Gastrointestinal Conference
 Medicine Residents Conference
- 9/1994 - 9/1995: Medical Students Radiology Conferences
 Presentations
- 2/29/1996: "Rathke's Cleft Cyst," presented at combined
 Neuroradiology/Neurosurgery Grand rounds, UCSF.
- 1/30/1996: "Imaging of the Orbits," presented at Neuroradiology
 Research Conference, UCSF.
- 5/1995: "Magnetic Resonance Imaging of Infectious Arthritis
 Emphasizing Coccidioidomycosis," poster presentation at
 the annual AUR meeting, San Diego, California.
- 2/1995: "Sellar and Parasellar Pathology," presented at Queen Mary
 Hospital, Hong Kong.
- 5/1993: "Evaluation of Medical Students in Radiology: Written
 Testing Using Uncued Multiple-Choice Questions,"
 presented at the annual AUR meeting, Cincinnati, Ohio.
- 10/1989: "Multiple Cycles of DNA Synthesis and Senescence of
 Primary Hepatocytes in DMSO/EGF on/off Protocol,"
 presented at the Twentieth Annual Alpha Omega Alpha
 Symposium, Duke University, Durham, North Carolina.

Publications

Fajardo LL, Chan KM, "Evaluation of Medical Students
 in Radiology: Written Testing Using Uncued Multiple-
 Choice Questions," Investigative Radiology, 1993;28:964-
 968.

Chan KM, Koch D, Michalopoulos G, "Multiple Cycles of
 DNA Synthesis and Senescence of Primary Hepatocytes in
 DMSO/EGF on/off Protocol," Journal of Cellular
 Physiology, 1989 Dec. 141(3):584-90.

Lund P, Chan KM, et al., "Magnetic Resonance Imaging of

Infectious Arthritis Emphasizing Coccidioidomycosis,"
accepted for publication in Skeletal Radiology.

Chan KM, Carmody RA, "Sellar and Juxtasellar Pathology,"
NeuroImaging, Zimmerman, Gibby, Carmody, 1997, Springer-
Verlad, N.Y.

Bashi N, Chan K, Wirganowicz P, "Peroneal Intraneural
Ganglion" Neurology 65 Dec 2005: 1753.



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License Number: 54042
Current Date: 06/17/2016 11:16 AM

Name:	CHAN, KRAMMIE MEI-KWAN
License Type:	Physician and Surgeon A
License Status:	License Renewed & Current
Expiration Date:	02/28/2017
School Name:	NC007 - DUKE UNIVERSITY SCHOOL OF MEDICINE
Date of Graduation:	01/01/1990
Original Issuance Date:	03/22/1995

Addresses

Address of Record (Required)	Address
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Are you retired?	No
Activities in Medicine	Administration - 20-29 Hours Other - None Patient Care - 20-29 Hours Research - None Teaching - None Telemedicine - 1-9 Hours
Patient Care Practice Location	Zip: 94611 County: ALAMEDA
Patient Care Secondary Practice Location	Not identified
Telemedicine Practice Location	Zip: 94611 County: ALAMEDA
Telemedicine Secondary Practice Location	Not identified
Current Training Status	Not in Training
Areas of Practice	Radiology - Primary
Board Certifications	American Board of Radiology - Diagnostic Radiology American Board of Radiology - Neuroradiology

Survey Information

The following information is self-reported by the licensee and has not been verified by the Board.

AOA Board Certifications	No AOA board certifications identified
Postgraduate Training Years	9+ Years
Cultural Background	Declined to Disclose
Foreign Language Proficiency	Declined to Disclose
Gender	Female

Public Record Actions

Administrative Disciplinary Actions	None found
Court Order	None found
Misdemeanor Conviction	None found
Probationary License	None found
Felony Conviction	None found
Malpractice Judgment	None found
Hospital Disciplinary Action	None found
License Issued with Public Letter of Reprimand (Non-Disciplinary)	None found
Administrative Citation Issued	None found
Administrative Action Taken by Other State or Federal Government	None found
Arbitration Award	None found
Malpractice Settlements	None found

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Krammie Mei-Kwan Chan (ABMSUID - 531449)

Viewed:6/17/2016 2:23:22 PM CST

DOB: 02/16/1964

Education: 1990 MD (Doctor of Medicine)

Address: 280 West Macarthur Boulevard
Oakland, CA 94611-5642 (United States)

Individual NPI ¹

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Certification:



American Board of Radiology

Diagnostic Radiology - General

Status: Certified

Status	Duration	Occurrence	Start Date - End Date	✱ Participating in MOC
Active	Lifetime	Initial Certification	11/07/1995 -	Yes

Neuroradiology - Subspecialty

Status: Certified

Status	Duration	Occurrence	Start Date - End Date	✱ Participating in MOC
Active	Time-Limited	Recertification	01/01/2009 - 12/31/2018	Yes
Expired	Time-Limited	Initial Certification	11/02/1998 - 12/31/2008	

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ATTACHMENT 6

BALARAM PULIGANDLA, M.D., FCAP

Department of Pathology, Kaiser Permanente Medical Center
275 W. MacArthur Boulevard, Oakland, CA 94611

PROFESSIONAL EMPLOYMENT

Chief	2001 - present
Department of Pathology	
Kaiser Permanente Medical Centers, East Bay	
Staff Pathologist	1992 – 2001
Kaiser Permanente Medical Center	
Oakland, CA	

LICENSURE & BOARD CERTIFICATION

California, G49195	1982
American Board of Pathology, Anatomic/Clinical Pathology	1986

POSTGRADUATE TRAINING

Naval Hospital, Oakland, CA	1980 - 1981
Flexible Internship	
Naval Hospital, Oakland, CA	1982 - 1986
Residency in Anatomic & Clinical Pathology	

LEADERSHIP ROLES & COMMITTEES

Education Committee, California Society of Pathologists	
Chair	2006 - present
Member	1999 - present
Chiefs of Pathology, Kaiser Permanente Northern CA	
Chair	2007 - present
Member	2001 – present
Registrar, South Bay Pathology Society	1993 - 2008
Chair, Clinical Vision Team, KP National	2005 - 2008
KP Division of Research/Pathology Committee, Oakland, CA	2001 - present
Education Committee, KPMC, Oakland, CA	1992 - present
Chair of QA Committee, Pathology and Laboratory	1992 - 2001
Kaiser Permanente Medical Center, Oakland, CA	

PROJECT MANAGEMENT

Realization Team Leader, Kaiser Permanente Northern CA	2004 - 2008
CoPath Plus Implementation Team (APEX Project)	
Realization Team Leader, Kaiser Permanente National	2005 - 2008
CoPath Plus Implementation Team (KPATH Project)	

ACADEMIC APPOINTMENTS

Associate Clinical Professor

2000 - present

UCB-UCSF Joint Medical Program
School of Public Health
Berkeley, CA

Assistant Clinical Professor

1992-2000

UCB-UCSF Joint Medical Program
School of Public Health
Berkeley, CA

EDUCATION

M.D., Case Western Reserve University, School of
Medicine 1980

B.A., with Honors in Biology, Oberlin College 1976

HONORS AND AWARDS

Top Doctors of California by Consumers Checkbook 2002

The Eugene Eisenberg, M.D./Joseph Picchi, M.D. Award for *Excellence*
in

Clinical Instruction, presented by the UCB-UCSF
Joint Medical Program, Class of 1998

Excellence in Clinical Instruction, presented by the UCB-UCSF
Joint Medical Program, Class of 1997

Navy Commendation Medal, for service in the Dept. of Pathology 1988 - 1990
Naval Hospital, Oakland, CA

Armed Forces Health Professions Scholarship, U.S. Navy 1976 - 1980

SOCIETY MEMBERSHIPS

South Bay Pathology Society 1992 - present

California Society of Pathologists 1984 - present

Fellow, College of American Pathologists 2008 - present

Fellow, American Society of Clinical Pathologists 1986 - 2007

United States and Canadian Academy of Pathology 1986 - present

Alameda/Contra Costa Medical Association 1994 - present

California Medical Association 1994 - present

PUBLICATIONS

1. Letter to the Editor, *New England Journal of Medicine*, Vol 299:1191, 1978.
2. Schaffner V, **Puligandla B**. Serous papillary carcinoma of peritoneum, *ASCP Check Sample Exercise*, AP II, 4, 1987.
3. Mui S, Li T, Rasgon G, Hilsinger R, Rumore G, **Puligandla B**, Sawicki J. Efficacy and Cost Effectiveness of Multihole Fine-needle Aspiration of Head and Neck Masses. *Laryngoscope*, 107:759-69, 1997.
4. Babb M, Cruz R, **Puligandla B**. Sino-nasal Mucosa-associated Lymphoid Tissue Lymphoma. *Arch Otolaryngol Head Neck Surg*, 125:585-88, 1999.
5. Shibata A, Longacre T, **Puligandla B**, Parsonnet J, Habel L. Histological Classification of Gastric Adenocarcinoma for Epidemiological Research: Concordance Between Pathologists. *Cancer Epidemiology, Biomarkers & Prevention*, 10:75-78, 2001.
6. Shibata A, Parsonnet J, Longacre T, Garcia M.I, **Puligandla B**, et al. CagA status of Helicobacter Pylori Infection and p53 Gene Mutations in Gastric Adenocarcinoma. *Carcinogenesis*, 23(3): 419-24, 2002.
7. Shibata A, Parsonnet J, Longacre T, Garcia M.I, **Puligandla B**, et al. CagA status of Helicobacter pylori Infection and p53 Gene Mutations in Gastric Adenocarcinoma, Letter to the Editor (response), *Carcinogenesis*, 24(1): 147, 2003.
8. Collins L, Achacoso N, Nekhlyudov L, Fletcher S, Haque R, Quesenberry C, Alshak N, **Puligandla B**, Brodsky G, Schnitt S and Habel L. Clinical and Pathologic Features of Ductal Carcinoma in situ Associated With the Presence of Flat Epithelial Atypia: An Analysis of 543 Patients. *Modern Pathology*, 20: 1149- 1155, 2007.
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License Number: 49195
Current Date: 06/17/2016 11:15 AM

Name:	PULIGANDLA, BALARAM
License Type:	Physician and Surgeon G
License Status:	License Renewed & Current
Expiration Date:	09/30/2016
School Name:	OH006 - CASE WESTERN RESERVE UNIVERSITY SCHOOL O
Date of Graduation:	01/01/1980
Original Issuance Date:	11/01/1982

Addresses

Address of Record (Required)	Address
	275 W MacArthur Blvd Dept of Pathology OAKLAND, CA ALAMEDA 94611-5641 United States View on a map

Survey Information

The following information is self-reported by the licensee and has not been verified by the Board.

Are you retired?	No
Activities in Medicine	Administration - 10-19 Hours Patient Care - 40+ Hours Research - 1-9 Hours Teaching - 1-9 Hours Telemedicine - 1-9 Hours
Patient Care Practice Location	Zip: 94611 County: ALAMEDA
Patient Care Secondary Practice Location	Not identified
Telemedicine Practice Location	Zip: 94611 County: ALAMEDA
Telemedicine Secondary Practice Location	Not identified
Current Training Status	Not identified
Areas of Practice	Pathology - Primary
Board Certifications	American Board of Pathology - Pathology - Anatomic/Pathology- Clinical
AOA Board Certifications	No AOA board certifications identified
Postgraduate Training Years	5 Years

Survey Information

The following information is self-reported by the licensee and has not been verified by the Board.

Cultural Background	Indian
Foreign Language Proficiency	Declined to Disclose
Gender	Male

Public Record Actions

Administrative Disciplinary Actions	None found
Court Order	None found
Misdemeanor Conviction	None found
Probationary License	None found
Felony Conviction	None found
Malpractice Judgment	None found
Hospital Disciplinary Action	None found
License Issued with Public Letter of Reprimand (Non-Disciplinary)	None found
Administrative Citation Issued	None found
Administrative Action Taken by Other State or Federal Government	None found
Arbitration Award	None found
Malpractice Settlements	None found

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To become Board Certified, a physician must achieve expertise in a medical specialty or subspecialty that meets the profession-driven standards and requirements of one (or more) of the 24 ABMS certifying boards. To maintain Board Certification, the certifying boards may require physicians, depending on their date of initial certification, to participate in on-going programs of continuing learning and assessment (Maintenance of Certification) designed to help them remain current in an increasingly complex practice environment.

Balaram Puligandla (ABMSUID - 370568)

Viewed:6/17/2016 2:23:50 PM CST

DOB: Private
Education: 1980 MD (Doctor of Medicine)
Address: Kaiser Permanente Medical Center Oakland
280 W MacArthur Blvd
Oakland, CA 94611 (United States)

Individual NPI**Show Active Medical License(s)****Certification:****American Board of Pathology****Anatomic Pathology & Clinical Pathology - General****Status: Certified**

Status	Duration	Occurrence	Start Date - End Date
Active	Lifetime	Initial Certification	11/19/1986 -

Pathology Recertification - General**Status: Certified**

Status	Duration	Occurrence	Start Date - End Date
Active	Time-Limited	Recertification	01/01/2014 - 01/01/2024

Learn more about Pathology MOC program¹ **NPI: Not for Primary Source Verification (PSV).**² **State of Licensure provided by Federation of State Medical Boards (FSMB): Not for Primary Source Verification (PSV).**

ATTACHMENT 7

State of California

BUSINESS AND PROFESSIONS CODE

Section 2112

2112. (a) Physicians who are not citizens and who seek postgraduate study, may, after application to and approval by the Division of Licensing, be permitted to participate in a fellowship program in a specialty or subspecialty field, providing the fellowship program is given in a hospital in this state which is approved by the Joint Committee on Accreditation of Hospitals and providing the service is satisfactory to the division. Such physicians shall at all times be under the direction and supervision of a licensed, board-certified physician and surgeon who is recognized as a clearly outstanding specialist in the field in which the foreign fellow is to be trained. The supervisor, as part of the application process, shall submit his or her curriculum vitae and a protocol of the fellowship program to be completed by the foreign fellow. Approval of the program and supervisor is for a period of one year, but may be renewed annually upon application to and approval by the division. The approval may not be renewed more than four times. The division may determine a fee, based on the cost of operating this program, which shall be paid by the applicant at the time the application is filed.

(b) Except to the extent authorized by this section, no such visiting physician may engage in the practice of medicine or receive compensation therefor. The time spent under appointment in a medical school pursuant to this section may not be used to meet the requirements for licensure under Section 2101 or 2102.

(c) Nothing in this section shall preclude any United States citizen who has received his or her medical degree from a medical school located in a foreign country from participating in any program established pursuant to this section.

(Amended by Stats. 2014, Ch. 752, Sec. 5. (SB 1159) Effective January 1, 2015.)

ATTACHMENT 8

16 CA ADC § 1325.5 BARCLAYS OFFICIAL CALIFORNIA CODE OF REGULATIONS

Barclays Official California Code of Regulations Currentness

Title 16. Professional and Vocational Regulations

Division 13. Medical Board of California [FNA1]

Chapter 1. Division of Licensing

Article 7. Foreign Medical Students and Graduates (Refs & Annos)

§ 1325.5. Criteria for Approval of Fellowship Programs for Foreign Trained Physicians Not Located in Hospitals Affiliated with a Medical School.

(a) Approval of fellowship programs by the division shall be pursuant to the following criteria for approval of fellowship programs for foreign trained physicians not located in hospitals affiliated with a medical school:

(1) Programs shall be conducted in hospitals which have a minimum capacity of 150 beds, excluding bassinets, which have a minimum of 5000 annual admissions, and which have a minimum of three (3) major clinical divisions represented in the hospital.

(2) The teaching staff shall include a minimum of three (3) persons; however, the ratio of teaching staff to postgraduate trainees shall be one to one. The hospital shall have a ratio of not less than twenty-five (25) beds per postgraduate trainee.

(3) Programs shall have a qualified teaching staff with educational background and professional experience. Each staff teacher shall be board-certified in his or her specialty area of teaching. The teaching staff shall be directed by a physician who possesses a "medical doctor" degree and is licensed as an "M.D." by the board and who has a clinical teaching appointment from a medical school approved by the division.

(4) One member of the teaching staff shall be in the facility at all times in which a postgraduate trainee is on duty or in training.

(5) Hospitals shall maintain adequate clinical records in conjunction with the training programs which show evidence of endorsement of the records by supervising physicians.

(6) Programs shall be conducted in hospitals which have a physician specializing in pathology on the staff who conducts clinical pathology conferences and participates in other teaching mortality and morbidity conferences.

(7) Programs shall be conducted in hospitals which have a physician specializing in radiology who participates in hospital teaching conferences. Hospitals shall have adequate fluoroscopy and viewing space to accommodate clinical trainees.

(8) Programs shall maintain an adequate medical library containing standard medical text and reference books and a representative collection of current medical journals covering the major clinical fields.

(9) Programs shall also include:

(A) adequate teaching time in proportion to service time;

(B) participation by the postgraduate in total patient care;

(C) adequate communication with attending physicians;

(D) a training committee or physician responsible for the organization, supervision and evaluation of the instruction given who shall have a teaching appointment from a medical school approved by the division;

(E) lecture facilities and teaching aids;

(F) daily ward or teaching rounds;

(G) ambulatory patient care, where appropriate;

(H) training and departmental conferences on clinical pathology, mortality and morbidity, and radiology.

(b) The application fee for approvals pursuant to this section shall be \$500.00.

(c) All approvals shall be renewed annually. There is no fee charged for filing such a renewal.

Note: Authority cited: Section 2018, Business and Professions Code. Reference: Sections 2005 and 2112, Business and Professions Code.

HISTORY

1. New section filed 6-17-77; effective thirtieth day thereafter (Register 77, No. 25).

2. Amendment of subsection (c)(1) filed 8-15-78; effective thirtieth day thereafter (Register 78, No. 33).

3. Amendment of subsection (a) filed 8-5-81; effective thirtieth day thereafter (Register 81, No. 32).

4. Amendment filed 9-21-83; effective thirtieth day thereafter (Register 83, No. 39).

5. Amendment of subsection (a)(3) filed 5-6-92; operative 6-5-92 (Register 92, No. 19).

This database is current through 6/3/16 Register 2016, No. 23

16 CCR § 1325.5, 16 CA ADC § 1325.5