

UNIVERSITY OF IOWA  
COLLEGE OF MEDICINE CURRICULUM VITAE

Simon Ching-Shun Kao, MBBS, DMRD, FRCR, FACR  
Diplomate of the American Board of Radiology  
Certificate of Added Qualifications in Pediatric Radiology (1995-2005)  
Maintenance of Certification in Pediatric Radiology (2005-2015)

January 22, 2009

**I. EDUCATIONAL AND PROFESSIONAL HISTORY**

**A. List of institutions attended**

1969-1971 St. Paul's Co-Educational College, Hong Kong  
1971-1976 College of Medicine, The University of Hong Kong, Hong Kong  
1976-1977 House Officer (Internship), University Surgical Unit (six months) and  
University Pediatric Unit (six months), Queen Mary Hospital, University of  
Hong Kong, Hong Kong  
1977-1978 Medical & Health Officer, Radiotherapy & Medical Oncology, Queen  
Elizabeth Hospital, Hong Kong  
1978-1982 Medical & Health Officer, Diagnostic Radiology, Queen Elizabeth Hospital,  
Hong Kong  
1982-1983 Honorary Registrar, University of London (King's College Hospital, three  
months), and University of Sheffield (Children's Hospital, seven months),  
London, England  
1983-1985 Senior Medical & Health Officer (Acting), Diagnostic Radiology, Queen  
Elizabeth Hospital, Hong Kong  
1985-1987 Resident, Diagnostic Radiology, University of Iowa Hospitals and Clinics,  
Iowa City, IA

Certification

1976 Bachelor of Medicine, Bachelor of Surgery (MBBS, Hong Kong)  
10/82 Diploma in Medical Radiodiagnosis (DMRD, London)  
05/83 Fellow of the Royal College of Radiologists (FRCR, England)  
06/87 American Board of Radiology, Diplomate  
02/95-2005 Certificate of Added Qualification (CAQ) in Pediatric Radiology  
07/05-2015 Maintenance of Certification (MOC) in Pediatric Radiology  
05/04 Fellow, American College of Radiology

Licensure

1985-1987 Iowa Resident license  
07/01/87 Iowa Permanent License (#26149, exp. 02/01/09)

Iowa Controlled Substance Registration (#1233019, exp. 12/31/08)  
Federal DEA Registration (BK1026485, exp. 12/31/07)

## **B. Professional and academic positions held**

### Academic

- 07/87-08/88 Associate, Department of Radiology (six months each in Pediatric Radiology & Body Imaging), The University of Iowa College of Medicine, Iowa City, IA
- 09/88-06/92 Assistant Professor, Department of Radiology (Pediatric Radiology), The University of Iowa College of Medicine, Iowa City, IA
- 07/92-06/97 Associate Professor, Department of Radiology (Pediatric Radiology), The University of Iowa College of Medicine, Iowa City, IA
- 07/97-pres Professor, Department of Radiology (Pediatric Radiology), The University of Iowa College of Medicine, Iowa City, IA
- 08/07-pres Director of Pediatric Radiology Fellowship Program, The University of Iowa College of Medicine, Iowa City, IA
- 4/23-25/08 Acting Departmental Executive Officer (DEO), Department of Radiology, The University of Iowa College of Medicine, Iowa City, IA
- 8/14-15/08 Acting Departmental Executive Office (DEO), Department of Radiology, The University of Iowa College of Medicine, Iowa City, IA

### Hospital

- 1987-pres Attending Pediatric Radiologist, University of Iowa Hospitals and Clinics, Iowa City, IA
- 1994-pres Attending Radiologist, Marengo Medical Center, Marengo, IA
- 1994-pres Attending Radiologist, Keokuk County Medical Center, Sigourney, IA
- 1996-2000 Attending Radiologist, Greater Community Hospital, Creston, IA
- 1997-pres Attending Pediatric Radiologist, Children's Hospital of Iowa, Iowa City, IA
- 1998-2002 Attending Radiologist, VA Hospital, Iowa City, IA
- 1/07 - 3/07 Acting Director of Pediatric Radiology, The Children's Hospital of Iowa, The University of Iowa Healthcare, Iowa City, IA
- 08/07-pres Director of Pediatric Radiology Fellowship Program, University of Iowa Children's Hospital, Iowa City, IA

## **C. Honors, awards, recognitions and outstanding achievements**

1. Recognized to demonstrate commitment to excellence and service with compassion and integrity at the University of Iowa Hospitals and Clinics: June, 2000 (Certificate of Appreciation for Above and Beyond the Call of Duty)
2. Accepted as a Life Member of the National Registry of Who's Who (#180593), as published in 2001 Edition
3. Listed in Marquis Who's Who in America (#28560359)

4. Listed as Honor Member of the Strathmore's Who's Who, 2002-2003
5. Listed as Member of the National Registry of Who's Who, 2002-2003
6. Outstanding Clinical Teacher Award, presented by the Medical Student Clerkship, 2002-2003, Department of Radiology, Roy J. and Lucille A. Carver College of Medicine, University of Iowa Hospitals and Clinics, Iowa City, IA
7. Fellow, American College of Radiology, 2004
8. Listed in the Academic Keys Who's Who in Medical Sciences Education (WWMSE), 2005
9. Listed in the International Who's Who Historical Society, 2005-2006
10. Listed in Marquis Who's Who in American Education, 2006-2007 (7<sup>th</sup> edition)
11. Listed in Marquis Who's Who in Medicine and Healthcare (6<sup>th</sup> edition, 2006-7)
12. Listed in "Guide to America's Top Radiologists" 2006, 2007, 2008 editions, Consumers' Research Council of America
13. Listed in Biltmore Who's Who 2007 edition
14. Editor's Recognition Award for reviewing with Distinction, *Radiology* December 2006
15. Listed in Marquis Who's Who in American Education, 2007-2008 (8<sup>th</sup> edition)
16. Listed in Who's Who Among American Teachers & Educators, 2007-2008 (11<sup>th</sup> edition) Who's Who ID#465174728
17. Listed in the Strathmore's Who's Who 2007-2008
18. Listed in the Cambridge Who's Who Executive and Professional Registry 2007-2008
19. Listed in the Biltmore Who's Who Among Executives and Professionals and 2007 Honors Edition

## II. TEACHING AT THE UNIVERSITY OF IOWA

### A. Teaching assignments on semester-by-semester basis

#### Classroom, Seminar or Teaching Laboratory

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|-----------|--|
| 1987-1997 | Radiology Course 74:1 Clinical Radiology to M4 Students/Student Elective. Monthly lecture on "Neonatal Respiratory Distress", Department of Radiology, University of Iowa College of Medicine/University of Iowa Hospitals and Clinics, Iowa City, IA (12 hr/year).  |
| 1988-pres | Student Sonographer. University of Iowa Hospitals and Clinics, Iowa City, IA (3 hr/yr).  |
| 1997-pres | Radiology Course 74:006 Clinical Radiology Short Clerkship for M3 and M4 Students. Monthly lecture on "Neonatal Respiratory Distress" and small-group teaching sessions, Department of Radiology, University of Iowa College of Medicine/University of Iowa Hospitals and Clinics, Iowa City, IA (36 hr/year). |

#### Clinical Teaching (In Ward, Clinic or Operating Room)

1983-85 Queen Elizabeth Hospital (Pediatric team), Hong Kong (40 wk/yr; 1 hr/wk)  
1987-pres Small-group clinical teaching with Radiology residents in service (50 wk/yr; 20 hr/wk)

### **B. Graduate students supervised**

Diagnostic radiology technologists (student and staff)  
Diagnostic sonography technologists (students and staff)  
Residents (Radiology and Pediatric) rotating through Pediatric Radiology and Special Imaging (one to four/mo.)

1988-pres Pediatric Radiology Fellows (including Drs. Nosaka, Hyo Lim, Uwa Aideyan, Y Miyasaki and Geetika Khanna)

Fall, 1991 Jon Hade, 4<sup>th</sup>-year medical student. Research project on "The use of hand radiographs in the assessment of bone age and growth in children treated with growth hormones"

1992 Teresa Simonson, M.D. R3 Resident Research project on "MR of skull bone marrow"

Fall, 2000 Nathan Strabala, 4<sup>th</sup>-year medical student. Research on "The comparison between computerized stereological volumetry of abdominal tumors in children and conventional uni-, bi-, and tri-dimensional assessment of tumor size on CT images"

01/01-06/01 Wyatt Hadley, 1<sup>st</sup>-year medical student. Research project on "Computed tomography assessment of tumor response to treatment: Comparison of tumor size measurement by the WHO, RECIST, and computerized stereological methods"

07/02 Jessie Courtier, 4<sup>th</sup>-year medical student. Preparation of an electronic presentation entitled "Imaging of chest masses in children"

09/03 Mikala Brinkman, 4<sup>th</sup>-year medical student. Comparison of direct versus reconstructed coronal helical CT in temporal bone anatomy and pathology

08/04 Brianne Siberger, 4<sup>th</sup>-year medical student. Effect of lowering radiation dose by simulation and image quality

### **C. Other contributions to institutional programs**

1987-pres Noon Conference, Department of Radiology University of Iowa Hospitals and Clinics, Iowa City, IA (6 hrs/yr)

1987-pres Clinical-Radiological Conference, with pediatricians, University of Iowa Hospitals and Clinics, Iowa City, IA (10 hr/mo)

1993-1996 Pediatric Gastrointestinal Meeting, with pediatric gastroenterology and surgeons, University of Iowa Hospitals and Clinics, Iowa City, IA (1 hr/wk)

09/08/89 Talk on Radiology of Cystic Fibrosis, to Pediatric Allergy and Pulmonology Section of the Department of Pediatrics, University of Iowa Hospitals and Clinics, Iowa City, IA

11/89 Pediatric Teaching Conference on Ultrafast CT in Pediatrics, to Pediatric House Staff, University of Iowa Hospitals and Clinics, Iowa City, IA

02/20/90 Radiology Department Grand Rounds, Pediatric Ultrasound, University of Iowa Hospitals and Clinics, Iowa City, IA

03/13/90 Pediatrics Department, Ultrasound in Pediatrics, University of Iowa Hospitals and Clinics, Iowa City, IA

03/19/90 Pediatric Neurology Department, Neurosonography in Pediatrics, University of Iowa Hospitals and Clinics, Iowa City, IA

05/21/90 Pediatric Neurology Department, Neurosonography in Pediatrics, University of Iowa Hospitals and Clinics, Iowa City, IA

06/01/90 Rubin Flock's Society of Urology Meeting, Pediatric Urologic Imaging, University of Iowa Hospitals and Clinics, Iowa City, IA

04/06/91 Speaker at the Annual Meeting of the Iowa Society of Radiologic Technologists, Cranial Sonography in Pediatrics (1 hr), and CT of Pediatric Abdominal Masses (1 hr), Holiday Inn, Iowa City, IA

05/05/92 Pediatric Fractures, Visiting Professor, Broadlawns Medical Center, Des Moines, IA

05/10/92 Ultrafast Computed Tomography of the Pediatric Airway, Speaker at the First International workshop on Pediatric Surgery, University of Iowa Hospitals and Clinics, Iowa City, IA

04/03/93 Pediatric Gastrointestinal Sonography, Invited Speaker, Annual Meeting of the Iowa Society of Radiologic Technologists, Iowa City, IA

12/15/93 Sonography of Hypertrophic Pyloric Stenosis, Invited Speaker, Staff Sonographer Monthly Meeting for Continuing Medical Education (1 hr), University of Iowa Hospitals and Clinics, Iowa City IA

03/26-27/94 Pediatric Gastrointestinal Ultrasound, Speaker, Annual Meeting of the Iowa Radiological Society (Update on Abdominal Imaging), Iowa City, IA

02/02/95 Imaging of Urinary Tract Infections in Children, Presentation, Morning Conference of Pediatric Department, University of Iowa Hospitals and Clinics, Iowa City, IA

10/10/95 Imaging for Vascular Rings in Children, Speaker, Morning Conference of Otolaryngology Department, University of Iowa Hospitals and Clinics, Iowa City, IA

06/20/96 Pediatric GI Sonography, Presentation, Student Technologists at University of Iowa Hospitals and Clinics, Iowa City, IA

01/17/97 Pediatric Fractures, Grand Rounds, Presentation, Department of Family Practice, University of Iowa College of Medicine, Iowa City, IA

06/03/98 Ultrasonography in Pediatric Gastrointestinal Tract Excluding Pyloric Stenosis, Hepatobiliary and Pancreatic Diseases, Invited Speaker, Televised Lecture to Sonographers Throughout the State of Iowa, University of Iowa Hospitals and Clinics, Iowa City, IA

08/19/98 Imaging of Aortic Arch Anomalies and Vascular Rings, Invited Speaker, Pediatric Cardiology Fellows of the Department of Pediatrics, University of Iowa Hospitals and Clinics, Iowa City, IA

06/12/03 "Pediatric Fractures", Invited Lecture, Physical Therapy Program, University of Iowa Health Care, University of Iowa Hospitals and Clinics, Iowa City, IA

- 01/29/07 "Pediatric 3D CT imaging: The fun of it", Invited lecture, University of Iowa Department of Radiology Grand Round
- 04/09/07 "Imaging of non-rhabdomyosarcomatous soft tissue tumor in children" Invited lecture at the Pediatric Hematology and Oncology grand round, Iowa City, IA

**D. Course materials (syllabi, instructional web pages, computer lab materials)**

Pediatric abdominal mass website at Virtual Hospital:

<http://www.vh.org/Providers/TeachingFiles/PedAbdomMassImaging/KaosMenu.html>

Neonatal respiratory distress website at Virtual Hospital:

<http://www.vh.org/Providers/Lectures/RadShortClkship/LectureNotes/Kao.html>

**III. SCHOLARSHIP**

**A. Publications or creative works**

Peer-Reviewed Publications

1. Kao SCS, Yuh WTC, Sato Y and Barloon TJ: "Intracranial granulocytic sarcoma (chloroma): MR findings". J Comput Assist Tomogr. 1987;11:938-941.
2. Yuh WTC, Wiese JA, Abu-Yousef MM, Rezai K, Sato Y, Berbaum KS, Kao SCS, Hunsicker LG and Corry RJ. "Pancreatic transplant imaging". Radiology. 1988;167:679-683.
3. Jantarasami T, Larew M, Kao SCS and Smith WL. "Ultrasound demonstration of nephrocalcinosis in Williams Syndrome". J Clin Ultrasound. 1989;17:533-534.
4. Yuh WTC, Lozano RL, Flickinger FW, Sato Y, Kao SCS and Menezes AA. "Lumbar epidural chordoma: MR findings". J Comput Assist Tomog. 1989;13(3):508-510.
5. Kao SCS, Smith WL, Abu-Yousef MM, Franken EA, Sato Y, Kimura K and Soper RT. "Acute appendicitis in children: Sonographic findings". AJR. 1989;153:375-379.
6. Kao SCS, Waziri MH, Smith WL, Sato Y, Yuh WTC and Franken EA. "MR imaging of the craniovertebral junction, cranium, and brain in children with achondroplasia". AJR. 1989;153:565-569.

7. Franken EA Jr., Driscoll CE, Berbaum KS, Smith WL, Sato Y, Steinkraus LW and Kao SCS. "Teleradiology for a family practice center". JAMA. 1989;261(20):3014-3015.
8. Franken EA Jr, Kao SCS, Smith WL and Sato Y. "Imaging of the acute abdomen in infants and children". AJR. 1989;153:921-928.
9. Barloon T, Yuh WTC, Chiang FL, Kao SCS, Sato Y and Mehringer M. "Lesions involving the fourth ventricle evaluated by CT and MR: A comparative study". Magn Reson Imaging. 1989;7:1-8.
10. Sato Y, Yuh WTC, Smith WL, Alexander R, Kao SCS and Ellerbroek S. "Head injury in child abuse: Evaluation with MR imaging". Radiology. 1989;73:653-657.
11. Figueroa-Colon R, Tolaymat N and Kao SCS. « Gallbladder sludge and lithiasis in an infant born to a morphine user mother". J Pediatr Gastroenterol Nutr. 1990;10(2):234-238.
12. Franken EA Jr, Driscoll CE, Berbaum KS, Smith WL, Sato Y, Steinkraus LW and Kao SCS. "Teleradiology for a family practice center". [Critical Review and Authors Response (Moss AA, Ed.)] Invest Radiol. 1990;1:98-88.
13. Kao SCS, Smith WL, Sato Y, Franken EA Jr, Kimura K and Soper RT. "Ultrafast CT of upper airway obstruction in symptomatic postoperative patients with esophageal atresia and tracheo-esophageal fistula". AJR. 1990;154:345-350. (Cited in Curr Opin Rad. 1991;3:84-92)
14. Seabold JE, Flickinger FW, Kao SCS, Gleason TJ, Kahn D, Nepola JV and Marsh JL. "Indium III-leukocyte/technetium-99m-MDP bond and magnetic resonance imaging: Difficulty of diagnosing osteomyelitis in patients with neuropathic osteoarthropathy". J Nucl Med. 1990;31:549-556. (Cited in Curr Opin Rad. 1991)
15. Kimura K, Soper RT, Kao SCS, Sato Y, Smith WL and Franken EA Jr. "Aortosternopexy for tracheomalacia following repair of esophageal atresia: Evaluation by cine CT and technical refinement". J Pediatr Surg. 1990;25:769-772.
16. Yuh WTC, Sato Y, Gray SD, Kao SCS, Berbaum K, Crockett DM, Smith WL, Ryals TJ and Dolan KD. "MR and CT in pediatric extracranial head and neck masses". Ann Otol Rhinol Laryngol. 1991;100:54-62.
17. Sato Y, Kao SCS and Smith WL. "Radiographic manifestations of anomalies of the brain". Radiol Clin North Am. 1991;29:179-194.

18. Kao SCS, Haddad SF, Menezes A, Sato Y, Smith WL, Yuh WTC and Franken EA Jr. "Imaging of intracranial tumors in the first year of life". *Applied Radiology*. 1991;20:19-25.
19. Franken EA Jr., Smith WL, Berbaum K, Kao SCS and Sato Y. "Comparison of a PACS workstation with conventional film for interpretation of neonatal examinations: A paired comparison study". *Pediatr Radiol*. 1991;21:336-340.
20. Berbaum KS, Franken EA Jr., Dorfman DD, Rooholamini SA, Coffman CE, Cornell SH, Cragg AH, Galvin JR, Honda H, Kao SCS, Kimball DA, Ryals TJ, Sickels WJ and Smith TP. "Time course of satisfaction of search". *Invest Radiol*. 1991;26:640-648.
21. Kao SCS, Brown BP and Goedken J. "Sonography of intracranial air in a newborn with meningomyelocele". *Pediatr Radiol*. 1991;21:375-376. (Abstract cited in the 1992 Year Book of Ultrasound, pp. 272-273, and in Annual Review of Hydrocephalus, 1992;10:177-178)
22. Nelson DR, Yuh WTC, Waziri MH, Ryals TJ, Sato Y, Kao SCS, Hawes DR and Williams RD. "MR imaging of Hippel-Lindau disease: Value of Gadopentetate Dimeglumine". *JMRI*. 1991;1:469-476.
23. Yuh WTC, Buehner LS, Kao SCS, Robinson RJ, Dolan KD and Phillip JJ. "Magnetic resonance imaging of pediatric head and neck cystic hygromas". *Ann Otol Rhino Laryngol*. 1991;100:737-742. (Abstract cited in 1992 Year Book of Neuroradiology, pp. 397-399.)
24. Bishop W and Kao SCS. "Prolonged postprandial abdominal pain following Kawasaki syndrome with acute gallbladder hydrops: Association with impaired gallbladder emptying". *J Ped Gastroenterol Nutr*. 1991;13:307-311.
25. Smith WL, Alexander R, Judisch F, Sato Y and Kao SCS. "Magnetic resonance imaging evaluation of neonates with retinal hemorrhages". *Pediatrics*. 1992;89:332-333.
26. Kao SCS, Smith WL, Franken EA Jr, Sato Y, Sullivan JH and McGee JA. "Contrast enema diagnosis of necrotizing enterocolitis". *Pediatr Radiol*. 1992;22:115-117. (Abstract expanded and published in Gastroenterology Digest, pp. 6-7, October, 1993; also cited in the 1994 Year Book of Diagnostic Radiology, Mosby-Year Book, Inc., pp. 532-533.)
27. Franken EA Jr, Berbaum KS, Marley SM, Smith WL, Sato Y, Kao SCS and Milam SG. "Evaluation of a digital workstation for interpreting neonatal examinations: A receiver operating characteristic study". *Invest Radiol*. 1992;27:732-737.

28. Kao SCS, Cook JS, Hansen JR and Simonson TM. "MR imaging of the pituitary gland in untreated central precocious puberty". *Pediatr Radiol.* 1992;22:481-484.
29. Simonson TM and \*Kao SCS. "Normal childhood developmental patterns in skull bone marrow by MR imaging". *Pediatr Radiol.* 1992;22:556-559 (I serve as the primary mentor in this resident's project).
30. Nosaka S and \*Kao SCS. "MRI of malignant 'Triton' tumor in a child". *Clin Imaging.* 1993;17:53-55 (\*I serve as a mentor to this fellow's paper).
31. Nakagawa N, Cornelius AS, Kao SCS, Nakajima Y and Nakada K. "Transcatheter oily chemoembolization for unresectable malignant liver tumors in children". *JVIR.* 1993;4:353-358.
32. Yuh WTC, Hoang DN, Fisher DJ, Tali ET, Gao F, Simonson TM, Kao SCS and Weiner CP. "MR of fetal central nervous system abnormalities". *AJNR.* 1994;15:459-464.
33. Galvin J, Gingrich R, Hoffman E, Kao SCS, Stern E and Stanford WS. "Ultrafast CT of the chest". *Radiol Clin North Am.* 1994;32:775-793.
34. Aideyan UO and \*Kao SCS. "Gastric adenocarcinoma metastatic to the testes in Peutz-Jeghers syndrome". *Pediatr Radiol.* 1994;24:496-497 (\*I serve as primary mentor in this fellow's paper).
35. Berbaum KS, El-Khoury GY, Franken EA, Kuehn DM, Meis DM, Dorfman DD, Warnock NG, Thompson BH, Kao SCS and Kathol MH. "Missed fractures resulting from satisfaction of search effect". *Emerg Radiol.* 1994;1:242-249.
36. Ben-Haim S, Seabold JE, Kao SCS, Jann Johnson, Tran D and Brown BP. "Utility of 99m-Tc-mebrofenin scintigraphy in the assessment of infantile jaundice". *Clin Nucl Med.* 1995;20:153-163. (Cited in 1996 Year Book of Radiology, p. 217.)
37. Kao SCS and Franken EA Jr. "Nonoperative treatment of simple meconium ileus: A survey of the Society for Pediatric Radiology". *Pediatric Radiology.* 1995;25:97-100.
38. Kao SCS, Kimura K, Smith WL and Sato Y. "Tracheomalacia before and after aortosternopexy: Dynamic and quantitative assessment by electron-beam computed tomography (EBCT) with clinical correlation". *Pediatric Radiology.* 1995;25:S187-S197.

39. Kao SCS, Bell EF, Brown BP and Smith WL. "Duplex Doppler sonography of changes in portal vein flow in healthy term newborns after feeding". J Ultrasound Med. 1996;15:121-125.
40. Bauman NM, Oyos TL, Murray DJ, Kao SCS, Biavati MJ and Smith RJH. "Post-operative care following single-stage laryngotracheoplasty". Ann Otol Rhinol Laryngol. 1996;105:317-322.
41. Kao SCS, Muir LV and Kimura K. "Combined hypertrophic pyloric stenosis and duodenal web in Down syndrome: Sonographic and radiographic diagnosis". J Ultrasound Med. 1996;15:475-477. (Cited in Litterature Ultrasonore Revue D'echo-base, No. 6, June, 1996.)
42. Kao SCS and Franken EA Jr. "Imaging techniques in the diagnosis of gastrointestinal and hepatic disease". Clin Opin Peds. 1996;8(5):487-494.
43. Kao SCS and Smith WL. "Skeletal injuries in the pediatric patient". Radiol Clin North Am. 1997;35:727-746.
44. Uc A, Mitros FA, Kao SCS and Sanders KD. "Pseudomembranous colitis with E. coli O157:H7". J Pediatr Gastroenter Nutr. 1997;24(5):590-593.
45. Takano H, Sato Y, Kao SCS and D'Alessandro MP. "Enlarging giant liver cyst in Beckwith-Wiedemann syndrome". Pediatr Radiol. 1997;27:619-620.
46. Aideyan U and \*Kao SCS. "Urinary bladder rhabdomyosarcoma associated with Beckwith-Wiedemann syndrome". Clin Rad. 1998;53:457-459 (\* I serve as the primary mentor in this pediatric fellow's paper)
47. Takano H, Smith WL, Sato Y and Kao SCS. "Cervical spinal instability and myelopathy in warfarin embryopathy: 17-year follow-up". Pediatr Radiol. 1998;28:497-499.
48. Kao SCS and Wang G. "Radiologic volumetry on a personal computer with a stereologic method". Acad Radiol. 1998;5:665-669.
49. Uc A, \*Kao SCS, Sanders KD and Lawrence J. "Gastric volvulus and wandering spleen". Am J Gastroenterol. 1998;93:1146-1148 (\*I serve as the primary mentor in this pediatric gastroenterology fellow's paper).
50. Kao SCS, Adamson SD, Tatman LH and Berbaum, KS. "A survey of post-discharge side effects of conscious sedation using chloral hydrate in pediatric CT and MR imaging". Pediatr Radiol. 1999;29:287-290.
51. Kao SCS, Ehrhardt JC, Sato Y, D'Alessandro MP and Smith WL. "Pediatric extracranial applications of MR angiography". Clin Imaging. 2000;23:271-283.

52. Van Beek JT, Sharafuddin MJA, Kao SCS, Luisiri A and Garibaldi LR. "Prospective assessment of pituitary size and shape on MR imaging after suppressive hormonal therapy in central precocious puberty". *Pediatr Radiol*. 2000;30:444-446.
53. Harty MP and Kao SCS. "Intraosseous vascular access defect: Fracture mimic in the skeletal survey for child abuse". *Pediatr Radiol*. 2002;32:188-190.
54. McHugh K and Kao SCS. "Response evaluation criteria in solid tumors (RECIST): Problems and need for modifications in paediatric oncology?" *Br J Radiol*. 2003;76:433-436.
55. McHugh K and Kao SCS. "Can paediatric radiologists resist RECIST (response evaluation criteria in solid tumors)?" *Pediatr Radiol*. 2003;33(11):739-743.
56. Khanna G, Kao SCS, Kirby P and Sato Y. "Imaging of chronic granulomatous disease in children". *RadioGraphics* 2005;25:1183-1195
57. McCarville MB, Kao SCS. Commentary: Imaging recommendation for malignant liver neoplasms in children. *Pediatric Blood Cancer* 2006;46:2-7
58. Gallagher BL, Vibhakar R, Kao S, and Cooper CS. Bilateral Testicular Masses: An Unusual Presentation of Neuroblastoma. *Urology* 2006 September 68(3) 672. e15-7. Epub 2006 Sep 18
59. Morriss JH, Moreland J, Burkhart H, Kao SCS. Presurgical evaluation of interrupted aortic arch with 3-dimensional reconstruction of CT images. *The Ann of Thoracic Surg* 2007; 84(1):299
60. Megan Burke, James Anderson, Simon C Kao, David Rodeberg, Steve Qualman, Suzanne Wolden, William Meyer, and Philip P. Breitfeld. Assessment of response to induction therapy and its influence on 5-year failure-free survival in Group III rhabdomyosarcoma: IRS-IV experience A report from the Soft Tissue Sarcoma Committee of the Children's Oncology Group. *JCO* 2007 (November) 25:4909-4913
61. Khanna G, O'Dorisio SM, Menda Y, Kirby P, Kao S, Sato Y. Gastroenteropancreatic Neuroendocrine Tumors in Children and Young Adults. *Pediatr Radiol* 2008; 38(3):251-259; Quiz 358-359; Epub 2007 September 29.
62. Zeng K, Fajardo LL, Kao S, Franken EA, Park JM, Jing Z, Bai EW, Wang G. An in vitro evaluation of cone-beam breast CT methods. *Journal of X-Ray Science and Technology* 2008, 16(3):171-187.

### Non-Peer-Reviewed Publications

1. Franken EA, Jr., Kao SCS, Smith WL and Sato Y. "New modalities expand pediatric imaging's role". *Diagnost Imag.* 1989;11(12):78-84.
2. Franken, EA, Jr, Kao SCS, Smith WL and Sato Y. "Hydrostatic reduction of intussusception: Reply". *AJR* 1990;154:1123.
3. Kao SCS. "Pediatric tumor size measurement: Current practice". *The Society for Pediatric Radiology, 1998 Pediatric Imaging Course Syllabus*, pp.137-141.
4. Kao SCS. "Mineralizing (lenticulostriate) vasculopathy: Case of the day for the AIUM annual meeting, April 2000". *J Ultrasound Med.* 2000;19:362.
5. Khanna G, Sato Y, Kao S, D'Alessandro M, Kirby P. Pediatric Case of the Day. *Radiologic Society of North America.* Feb 2007.  
Available at <http://www.rsna.org/Education/index.cfm>
6. D'Alessandro DM, Oral R, Kao SC. How Old Are Those Subdural Hematomas. *PediatricEducation.org.* Available from the Internet at:  
<http://www.pediatriceducation.org/2007/12/03> (rev. 12/3/07, cited 12/3/07)

### Papers Submitted or In Preparation

1. Huang L, Wang G, Kao SCS and Ni J. "VoluMeasure™: A portable Java program for stereological volume measurement". (In preparation)
2. Han TI and Kao SCS. "'Anterior beak' sign: A sonographic finding of the fistula in imperforate anus". (In preparation)
3. Barlett H, Kao SCS, Tannous R. Calcifying fibrous tumor of the heart (In preparation)
4. David Rodeberg, Julie Stoner, Andrea Hayes-Jordan, Simon Kao, Suzanne Wolden, Steve Qualman, William Meyers, Doug Hawkins. Prognostic significance of tumor response at the end of therapy in Group III rhabdomyosarcoma (RMS): a report from the Children's Oncology Group (COG). David Rodeberg, Julie Stoner, Andrea Hayes-Jordan, Simon Kao, Suzanne Wolden, Steve Qualman, William Meyers, Doug Hawkins (Submitted to JCO, revised and resubmitted)
5. Sue O'Dorisio M, Menda Yusuf, Michael Stacy, Madsen Mark, Kao Simon, Khanna Geetika, Connelly Mary, Babich John, O'Dorisio Thomas, Bushnell David. Phase 1 Trial of Y-90-DOTA-tyr-Octreotide in Children and Young Adults with Refractory Solid Tumors that Express Somatostatin Receptor Type 2 (sst2) (To be submitted to JCO).

### Book Chapters Published

1. Kao SCS and Franken EA Jr. "Gastrointestinal imaging." Chapter 78, pp. 1039-1056, in Pediatric Gastrointestinal Disease: Pathophysiology, Diagnosis, and Management (Wyllie R and Hyams JS, Eds.). W.B. Saunders Company, Philadelphia, PA, 1993.

2. Kao SCS and Franken EA Jr. "The acute abdomen in infants and children". Pp. 738-743, in Current Practice in Radiology, (1<sup>st</sup> Ed., Thrall JH, Ed.), Mosby, St. Louis, 1993.
3. Kao SCS and Franken EA Jr. "The child with abdominal pain". Chapter 6, pp. 159-186, in Practical Pediatric Radiology (2<sup>nd</sup> Ed., Hilton S, Edwards DK and Hilton JW, Eds.). W.B. Saunders Company, Philadelphia, PA, 1994.
4. Kao SCS and Franken EA Jr. "Radiologic imaging procedures". Chapter 7, pp. 1-25, in Abdominal Surgery of Infancy and Childhood (1<sup>st</sup> Ed., Donnellan WL, Ed., with Burrington JD, Kimura K, Schafer JC & White JJ). Harwood Academic Publishers, 1996.
5. Kao SCS. "Radiology of soft tissues in children". Chapter 91, pp. 2151-2162, in Grainger and Allison's Diagnostic Radiology: A Textbook of Medical Imaging (4<sup>th</sup> Ed.), Harcourt Publishers Limited, 2001.
6. Kao SCS. "Radiology of arthritides in children". Chapter 90, pp. 2143-2149, in Grainger and Allison's Diagnostic Radiology: A Textbook of Medical Imaging (4<sup>th</sup> Ed.), Harcourt Publishers Limited, 2001.
7. M P Harty and Kao S. "Osteopetrosis and pyknodysostosis". Pp. 46-52, in Essentials of Musculoskeletal Imaging (1<sup>st</sup> Ed., El-Khoury G, Ed.). W.B. Saunders Company, Philadelphia, PA. 2003.
8. Kao SCS. Author/coauthor for several chapters in the Sections on "Urinary system", "Genital system", "Endocrine system" and "Radiation issues in children", in Imaging Children (two volumes) (2<sup>nd</sup> Ed., Carty H, Brunelle F, Stringer D and Kao SCS, Eds.). Elsevier Publisher. 2005

Section 1. Radiation and Medical Imaging of Children (p.1-44)

1.1 Introduction by Simon Ching-Shun Kao (p.3-5)

1.2 The effects of radiation on the fetus and child by Fiorenza Ianzini, Mark T Madsen, and Simon Ching-Shun Kao (p.7-22)

Section 4. The Urinary Tract (p.537-882)

4.1 Introduction by Simon Ching-Shun Kao (p.537-540)

Section 5. The Genital Tract (p.883-953)

5.1 Introduction by Simon Ching-Shun Kao (p.885)

9. Kernstine, KH, Van Natta TL, Burkhart HM, De Armond DT. Congenital Lung Diseases. In: Sabiston & Spencer Surgery of the Chest, volume 1, pp119-139 (I have contributed to most of the figures and legends in this chapter, but I was not included as a coauthor because I was asked to help out to provide images and legends for the chapter at the last minute), 2005
10. Kao SCS. "The child with abdominal pain". In Practical Pediatric Radiology (3<sup>rd</sup> Ed., Hilton S, Edwards DK and Hilton JW, Eds.). Saunders-Elsevier, 2006, pp 463-496

Electronic Publications

1. Pediatric abdominal mass website at Virtual Hospital:  
<http://www.vh.org/Providers/TeachingFiles/PedAbdomMassImaging/KaosMenu.html>
2. Neonatal respiratory distress website at Virtual Hospital:  
<http://www.vh.org/Providers/Lectures/RadShortClkship/LectureNotes/Kao.html>
3. Pediatric gastrointestinal ultrasound (in preparation at Virtual Hospital)
4. Brain sonography (in preparation at Virtual Hospital)
5. Pediatric urinary tract infection (in preparation at Virtual Hospital)
6. Khanna G, Sato Y, Kao S, D'Alessandro M, Kirby P. Pediatric Case of the Day (5 cases). Radiologic Society of North America. February 2007.  
Available at <http://www.rsna.org/Education/index.cfm>
7. D'Alessandro DM, Oral R, Kao SC. How Old Are Those Subdural Hematomas. PediatricEducation.org. Available from the Internet at:  
<http://www.pediatriceducation.org/2007/12/03> (rev. 12/3/07, cited 12/3/07)

### Book Reviews

1. Radiology of Syndromes, Metabolic Diseases, and Skeletal Dysplasias (3<sup>rd</sup> Ed., Taybi H and Lachman RS, Eds.), 1990. (Published in Radiology. 1992;182:656.)

### **B. Areas of Research Interest and Current Projects**

#### Pediatric Imaging

Duplex Doppler in Pediatric Diseases  
Magnetic Resonance Imaging  
Ultrafast CT in Pediatric Diseases

1. Duplex Doppler of portal vein in neonates.
2. Ultrafast CT of tracheomalacia in esophageal atresia with tracheoesophageal fistula
3. Cystic fibrosis: CT evaluation by high-resolution ultrafast CT
4. Radiographic scoring of treated bronchopulmonary dysplasia
5. Magnetic resonance angiography in pediatrics
6. 3D imaging of vascular lesions in mediastinum and abdominal masses
7. Pediatric sedation and short-term side effects
8. Radiologic volumetry using stereological methods on PC
9. 3D CT in childhood
10. TCD in sickle cell disease of children
11. The Utility of screening hip sonography in breech presentation

### **C. Published reviews of scholarship**

## D. Grants received

### Federal

1. CRC Protocol #89-42-90 (ended 1990). "Effects of PGEI and Indomethacin on Ophthalmic Artery Blood flow Velocity in the Preterm Infant"  
Investigators: Chemtob S, Kao SCS and Johnson K.
2. CRC Protocol #90-30-90 (ended 1994). "Part I: New Treatments to Improve the Final Adult Height of Children with Long-Standing Untreated Primary Hypothyroidism."  
Investigators: Cook J, Kao SCS, Hanson J, Chapler KG and Conn P.  
"Part II: New Treatments to Improve the Final Adult Height of Children With Central Precocious Puberty"  
Investigators: Cook J, (currently Tsalikian E), Hanson J, Kao SCS, Mahoney L, Cripe L, Chapler G, and Bartscher S.
3. CRC Protocol # 92-05-92 (1992 –1998). "Duplex Doppler Sonography of Portal Vein in Normal Newborns" (\$7000 from Children's Miracle Network Telethon, no salary support).  
Investigators: Kao SCS, Bell EF, Brown BP, Smith WL, James T and Miller J.
4. FDA Orphan Drug Grant From the Department of Health and Human Services, Food and Drug Administration Grant, 1991-1995. Amount: US\$221,000 (FDA Contract Award #: FD-R-000-695-02). "Glucocorticoids to Treat Bronchopulmonary Dysplasia".  
Investigators: Ahrens R, McGuinness G and Kao S.
5. University of Iowa Pulmozyme Trial. US\$79,928/yr for three years. "CF Outcomes Assessment: Objective Computer-Based Quantitation of HRCT".  
Investigators: Hoffman EA, McLennan G, Reinhardt JM, Ahrens R, Kao SC and Berbaum K
6. Submitted as Part of an Internal Pilot and Feasibility Review for a Gene Therapy for Cystic Fibrosis and Genetic Disease Core Center Grant for Submission to the NIDDK in February, 1998. US\$49,982 from 07/01/98 – 06/30/99. "Quantitative CT-Based Assessment of the Lung".  
Investigators: Hoffman EA, Ahrens R, McLennan G, Kao SC and Teresi M.
7. NCI Protocol #R21CA91578-01; Local Protocol #200008086). Approved by NCI and IRB. US\$250,000/yr for two years from 08/15/01 (*salary support* of \$3,533, plus fringe benefits). "A Phase 1, Open Label, Maximum Tolerated Dose-Finding Study to Evaluate the Safety and Tolerability of <sup>90</sup>Y-DOTA-tyr<sup>3</sup>-Octreotide Administered by Intravenous Infusion to Children With Refractory Somatostatin-Receptor Positive Tumors".  
Investigators: O'Dorisio MS (PI), Bushnell D, Menda Y, O'Dorisio T, Tannous R, Kao S, Robbins M, Madsen M and Kirby P.
8. A COG study for treatment of infantile fibrosarcoma (ARST03P1). Approved through Children's Oncology Group (NCI). (There is no salary support)  
Investigators: Loh M (PI), Warwick A, Anderson J, Coffin C, Gebhart M, Geiger J, Gen S, Grier H, Haas-Kogan D, Henry D, Kao SCS, Michalski J, Paidas C, Perez-Atayde A and Sorensen P.

9. A COG Phase II study of “Sulindac and Tamoxifen in patients with desmoid tumors that are recurrent or not amenable to standard therapy”. (There is no salary support)  
Investigators: Skapek SX (PI), Raney RB, Anderson JA (Statistician), Hill DA, Grier H, Henry DW, Hoffer FA, Kao SCS, Krasin M, Spunt SL, Sato J, Meyere W and Blakely M.
10. A COG Phase III group-wide study of “Vincristine, Dactinomycin and lower doses of cyclophosphamide in combination with radiation therapy for patients with newly-diagnosed low-risk embryonal/botryoid rhabdomyosarcoma”. (There is no salary support)  
Investigators: Walterhouse DO (PI), Pappo A, Qualman S, Brenneman J, Parham D, Paidas C, Kao SCS, Swaset P and Meza J.
11. A COG Phase III group-wide study of “Risk-based treatment for pediatric non-rhabdomyosarcoma soft-tissue sarcoma (NRSTS)”. (There is no salary support)  
Investigators: Spunt SL (PI), Goodman K, Kao SCS (one of three study radiologists), and others
12. A COG Groupwide Phase III study entitled “Intensive multi-agent therapy, including dose-compressed cycles of ifosfamide/etoposide (IE) and vincristine/doxorubicin/cyclophosphamide for patients with high-risk rhabdomyosarcoma.” (There is no salary support)  
Investigators: Weigel B (PI), Arndt C (Vice-Chair), Kao SCS , Sabinske C, Tsan E, Anderson J, Galster A, Hakel L, Henry D, Michalski J, Parham D Qualman S, Rodeberg D, Steward C, and others
13. ACRIN 6660: Whole-body MRI in the evaluation of pediatric malignancies.  
Project period: 01/01/05-03/31/06. Award amount: \$41,700.  
Local Investigators: Khanna G (PI), Sato Y, Tannous R, O’Dorisio S and Kao SCS.
14. A COG Study AHEP0531 entitled “Treatment of Children with All Stages of Hepatoblastoma”. (There is no salary support)  
Investigators: Katzenstein HM (PI), Malogolowkin M, McCarville B, Kao SC, et al.
15. NIH RO3 grant entitled “Data consistency based motion artifact reduction for head CT”  
Investigators: Hengyong Yu, PhD (principal investigator), Ge Wang PhD (Senior/Key person 1), and Simon CS Kao, MD (Senior/Key person 2, no salary support). Award amount: \$78,542 (year 1, 2007), and \$79,250 (year 2, 2008).

### State

1. Video production fund support from the University Video Center for developing instructional video materials about ultrasound diagnosis of pediatric problems. The award is for the Fiscal Year 07/01/91 – 06/03/92.  
Investigator: Kao SCS.
2. "Duplex Doppler Sonography of Portal Vein in Normal Newborns". Supported by the Children’s Miracle Network Telethon Funding in Iowa. 06/91 – 1998  
Amount: US\$7,000.  
Investigators: Kao SCS, Bell EF, Brown BP and Smith WL.

3. Recipient of a USD 3,000 Mini-Grant from the nTITLE Program, 07/98, University of Iowa Hospitals and Clinics, Iowa City, IA.
4. Recipient of a USD 5,000 Grant (Year 2000) from the Iowa State Dance Marathon, to learn about the use of transcranial Doppler ultrasound and imaging in children with sickle cell disease. The intensive training course was held at the Medical College of Atlanta, Georgia, on February 21-23, 2000, to train Kao SCS and an ultrasound technologist in the use of Doppler ultrasound in screening for early intracranial vascular occlusion in the sickle-cell population of Iowa.

### Foundation

1. Society for Pediatric Radiology Research and Education Foundation. US\$5,000 Grant (no salary support). May, 1998. "Computerized Stereological Quantitation of Pediatric Tumor Volume".  
Investigators: Kao SCS, Wang W, D'Alessandro M, Franken EA, Sato Y, Smith W and Berbaum K.

### Industry

1. Investigation #1299, Genentech, Inc. Grant. "A Multicenter, International, Randomized, Placebo-Controlled, Double-Blind Study to Determine the Effect of Pulmozyme on Pulmonary Function Over 96 Weeks in Subjects With Cystic Fibrosis Aged 6-10 Years". Subinvestigator (no salary support).

### Department

1. Funding from the Department of Radiology, University of Iowa Hospitals and Clinics, Iowa City, IA. Amount: US\$21,000 (no salary support). "Stereological Volume Measure Project".  
Investigators: Kao SCS, Wang G, Huang L and Jun N.

### **E. Invited lectures**

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|-------------|--|
| 09/16/89    | "Pediatric CT scanning". Invited Speaker, 50th Annual Meeting, Iowa Society of Radiologic Technologists, Hotel Fort Des Moines, Des Moines, IA                         |
| 10/21-22/89 | "Ultrafast CT in pediatric surgery". Invited Speaker, American Academy of Pediatrics Meeting, Film Reading Session and Combined Surgery-Radiology Meeting, Chicago, IL |
| 10/4-5/91   | "Pediatric Ultrafast CT: The clinical approach". Speaker, Advances in Ultrafast CT: 1991 – An International Symposium, Burlingame, CA                                  |
| 02/16-21/92 | "Ultrafast CT of the pediatric abdomen". Speaker, The Society of Gastrointestinal Radiologists Meeting, Categorical Course: "Frontiers in GI Radiology", Orlando, FL   |

- 05/14/92 "Ultrafast computed tomography of the chest and airway in children".  
Speaker, Annual Meeting of the Society of Pediatric Radiology, Scientific  
Update Session, Orlando, FL
- 02/18/94 "Abdominal imaging in children using newer modalities (CT, US, MRI)  
emphasizing trauma". Moderator and Speaker, Emphasis Course, 23<sup>rd</sup>  
Annual Meeting and Postgraduate Course of The Society of  
Gastrointestinal Radiologists, Maui, HI
- 10/7-9/94 "Pediatric imaging: How I do it seminar". Presentation and Panel  
Discussion, Advances in Ultrafast Computed Tomography: 1994 – An  
International Symposium on Electron-Beam Tomography, Scottsdale, AZ
- 05/15/95 "Magnetic resonance imaging in desmoid tumors and neurofibromatosis".  
Visiting Professor, Pediatric Research Seminar on Neurofibromatosis, MD  
Anderson Cancer Center, Houston, TX
- 10/06/95 "Imaging for respiratory distress in newborns" and "Pediatric radiology  
quiz". Faculty Speaker, Pediatric Board Review, organized by the Osler  
Institute, Lisle, IL
- 04/19/96 "Pediatric CT: Pediatric abdominal mass" and "Pediatric  
neurosonography". Presentations, Spring Symposium of the Southwest  
Missouri Allied Health Education, Joplin, MO
- 03/9-14/97 "Ultrasound of the Pediatric GI Tract". Workshop, 26<sup>th</sup> Annual Meeting  
and Postgraduate Course of The Society of Gastrointestinal Radiologists,  
Cancun, Mexico
- 11/12-16/97 "Tumor volume measurement: Current practice and recommendations".  
Invited Speaker, Imaging Committee Meeting, Children's Cancer Group  
Meeting, La Jolla/San Diego, CA
- 04/24/98 "Tumor volume measurement: Current practice at CCG institutions".  
Invited Speaker at the Children's Cancer Group Meeting, Houston, TX
- 05/4-9/98 "Tumor volume measurement: Current practice". Invited Speaker, 41<sup>st</sup>  
Annual Meeting and Postgraduate Course of the Society for Pediatric  
Radiology Meeting, Tucson, AZ
- 10/26/98 "Current practice of tumor size measurements: A survey of radiologists in  
the Children's Cancer Group". Invited Participant, International Workshop  
on the Response Criteria in Solid Tumors, organized by the European  
Organization for Research and Treatment of Cancer (EORTC), Brussels,  
Belgium
- 03/21-26/99 "Complementary role of ultrasound in pediatric gastrointestinal diseases".  
Co-Speaker (with Dr. EA Franken, Jr.), Workshop, 28<sup>th</sup> Annual Meeting  
and Postgraduate Course, Society of Gastrointestinal Radiologists, Palm  
Beach, FL
- 10/21-24/99 "Tumor size measurement by imaging and response criteria updates".  
Invited Speaker, Plenary Session, at the Pediatric Oncology Group (POG)  
Meeting, Chicago, IL
- 10/06/01 "Sonography of the pediatric gastrointestinal tract". Invited Speaker, Iowa  
Society of Ultrasound Annual Meeting, Des Moines, IA
- 10/06/01 "Sonography for developmental dysplasia of the hip". Invited Speaker,  
Iowa Society of Ultrasound Annual Meeting, Des Moines, IA

- 05/25/01 Co- Participant (with Drs. M. D'Alessandro, M Harty, Y Sato and W. Kim), Film Interpretation Session Through Teleconference, 38<sup>th</sup> Annual Meeting of the Japanese Society of Pediatric Radiology, Yokohama, Japan
- 09/07/01 "CT of pediatric chest masses". Invited Speaker, Selected Modality Conference, Iowa Society of Radiologic Technologists, Cedar Rapids, IA
- 09/07/02 "CT of pediatric abdominal masses". Invited Speaker, Selected Modality Conference, Iowa Society of Radiologic Technologists, Cedar Rapids, IA
- 04/02/04 "F-18-FDG PET scan in pediatric soft tissue tumors". Invited Speaker, Soft Tissue Sarcoma Committee Meeting, Spring COG Meeting, Washington, DC
- 11/04 "Imaging of non-rhabdomyosarcoma soft tissue sarcoma". Invited Speaker, Fall COG Meeting, Pathology-Radiology Symposium, Atlanta, GA
- 04/08/06 "Pediatric CT with 3D applications". Invited speaker at the Spring Symposium, Iowa Society of Radiologic Technologists, Iowa City, IA
- 10/23/06 "Quantitative analysis of changes in tumor mass: problems, challenges, and solutions". Invited speaker at Pediatric Oncology Imaging Frontiers Workshop on "Imaging and response criteria in Pediatrics" at the National Cancer Institute meeting, Washington, DC.
- 09/20/08 "Emergency Pediatric Radiology". Invited speaker at the Iowa Radiological Society Fall meeting, Iowa City, IA

#### Scientific Presentations (All With Published Abstracts)

1. Yuh WTC, Wiese JA, Abu-Yousef MM, Rezai K, Sato Y, Kao SCS, Hunsicker LG and Corry RJ. "Pancreatic transplant imaging". Presented at the 73<sup>rd</sup> Scientific Assembly of the Radiologic Society of North America. November 29-December 4, 1987, Chicago, IL
2. Frey EE, Kao SCS, Matherne P, Mahoney LT, Sato Y, Stanford W and Smith WL. "Ultrafast computed tomography in diagnosis of coronary artery aneurysms in Kawasaki disease patients". Presented at the 73<sup>rd</sup> Scientific Assembly of the Radiologic Society of North America. November 29-December 4, 1987, Chicago, IL
3. Sato Y, Yuh WTC, Mathews K, Kao SCS, Burger T and Farner R. "Diseases affecting white matter of pediatric brain: MRI evaluation". Presented at the Society for Pediatric Radiology. April 28-May 1, 1988, Coronado, CA
4. Edwards MT, Sato Y, Menezes A, Yuh WTC, Kao SCS and Smith WL. "Comparison of MR and CT for evaluation of posterior fossa masses in

- childhood". Presented at 74<sup>th</sup> Scientific Assembly of the Radiologic Society of North America. November 27-December 2, 1988, Chicago, IL
5. Sato Y, Ellerbroek C, Alexander R, Kao SCS, Yuh WTC and Smith WL. "Brain MRI in child abuse". Presented at the 74<sup>th</sup> Scientific Assembly of the Radiological Society of North America. November 27-December 2, 1988, Chicago, IL (abstract in Radiology. 1988;169[P]:202.)
  6. Kao SCS, Sato Y, Smith WL, Waziri M and Franken EA Jr. "MR evaluation of craniocervical junction, cranium and brain in children with Achondroplasia". Presented at the 74<sup>th</sup> Scientific Assembly of the Radiological Society of North America. November 27-December 2, 1988, Chicago, IL
  7. Yuh WTC, Sato Y, Kao SCS, Crockett DM, Gray SD and Maves MD. "MR in pediatric head and neck lesions". Presented at 74<sup>th</sup> Scientific Assembly of the Radiological Society of North America. November 27-December 2, 1988, Chicago, IL
  8. Kao SCS, Smith WL, Sato Y, Franken EA Jr, Kimura K and Soper RT. "Ultrafast CT of upper airway obstruction in symptomatic postoperative patients with esophageal atresia and tracheo-esophageal fistula". Presented at American Roentgen Ray Society 1989 Annual Meeting, May 7-12, 1989
  9. Sato Y, Yuh WTC, Kao SCS, Bell W and Smith WL. "MRI evaluation of children with acute disseminated encephalomyelitis". Presented at the American Roentgen Ray Society 1989 Annual Meeting, May 7-12, 1989
  10. Sato Y, Kao SCS, Wagener J and Smith WL. "Neonatal tracheobronchomegaly: cine CT evaluation". Presented at the American Roentgen Ray Society 1989 Annual Meeting, May 7-12, 1989
  11. Kao SCS, Yuh WTC, Sato Y and Smith WL. "Gd-DTPA-enhanced MR imaging in pediatric patients". Presented at the American Roentgen Ray Society 1989 Annual Meeting, May 7-12, 1989
  12. Gray SD, Kao SCS, Crockett DM, Frey EE, Stanford W and Waegner JS. "Rapid acquisition computerized tomography (cine CT) in the evaluation of chronic upper and lower airway obstruction in infants and children". Presented at the American Broncho-Esophagological Association on April 3, 1989
  13. Kimura K, Soper RT, Kao SCS, Sato Y, Smith WL and Franken EA. "Aortosternopexy for tracheomalacia following repair of esophageal atresia: evaluation by cine CT and technical refinement". Presented at the Pacific Association of Pediatric Surgeons, May, 1989

14. Seabold JE, Gleason T, Flickinger FW, Kahn D and Kao SCS. "False-positive In-111 Leukocyte (In-WBC)/Tc-99m MDP images of non-infected Charcot joints". Presented at the Society of Nuclear Medicine, June, 1989
15. Kao SCS, Haddad SF, Smith WL, Sato Y, Yuh WTC, Franken EA Jr and Menezes AH. "Imaging of intracranial tumors in the first year of life". Presented at the Annual Meeting of the Radiological Society of North America. December 1, 1989, Chicago, IL
16. Gleason TJ, Seabold JE, Flickinger FW, Kao SCS and Kahn D. "Detection of osteomyelitis in neuropathic osteoarthropathy: In-111 WBC/Tc-99m MDP bone and MR imaging". Presented at the Annual Meeting of the Radiological Society of North America. 1989, Chicago, IL
17. Yuh WTC, Buehner, LS, Sato Y, Gray SD, Kao SCS, Smith WL, Robinson RJ and Dolan KD. "MR of pediatric head and neck cystic hygromas". Presented at the Annual Meeting of the Radiological Society of North America. 1989, Chicago, IL
18. Sato Y, Menezes AH, Muhonen JG, Yuh WTC, Kao SCS and Smith WL. "MR evaluation of craniovertebral junction (CVJ) abnormalities". Presented at Society for Pediatric Radiology. April 19-22, 1990
19. Alexander RC, Smith WL, Judisch GF, Sato Y and Kao SCS. "MR evaluation of neonates with Retinal hemorrhages". Presented at Society for Pediatric Radiology. April 19-22, 1990
20. Franken EA, Jr., Smith WL, Berbaum KS, Kao SCS and Sato Y. "Comparison of PACS workstation with conventional film for interpretation of neonatal radiographs". Presented at Society for Pediatric Radiology. April 19-22, 1990
21. Berbaum KS, Franken EA, Jr., Rooholamini S, Coffman CE, Cornell SH, Cragg AH, Galvin JR, Honda H, Kao SCS, Kimball DA, Ryals TJ, Sickels and AP Smith. "Time-course of satisfaction of search". Presented at the 38<sup>th</sup> Annual Meeting of the Association of University Radiologists. April 22-27, 1990, Minneapolis, MN
22. Kimura K, Soper RT, Kao SCS, Sato Y, Smith WL and Franken EA Jr. "Tracheomalacia associated with esophageal atresia". Presented at the 27<sup>th</sup> Annual Meeting of the Japanese Society of Pediatric Surgery. April 25-27, 1990, Matsuyama, Japan. (Abstract in Journal of the Japanese Society of Pediatric Surgery. 1990;26:373.)
23. Smith WL, Kao SCS, Sato Y, Franken EA Jr, Sullivan J and McGee J. "Contrast enema diagnosis of necrotizing enterocolitis". Presented by Kao SCS at the 20<sup>th</sup> Annual Meeting and Postgraduate Course of the Society of Gastrointestinal Radiologists. February 17-21, 1991, La Costa/Carlsbad, CA

24. Gerrits PM, Greally MT, Hansen JR Patil SR, Matthews KD, Hanson JW, Kao SCS, Williams JK, Richman LC, Chaplet GL and Heitsman JC. "Abnormal regulation of growth and cognitive function in a girl with X/Y translocation". Presented at the American Pediatric Society and the Society for Pediatric Research. April, 1991, New Orleans, LA. (Abstract published in *Pediatr Res.* 1991;29:A129.)
25. Cornelius AS, Nakagawa N and Kao S. "Chemoembolization for resistant liver tumors in children". Presented at the American Pediatric Society and the Society for Pediatric Research. April, 1991, New Orleans, LA. (Abstract published in *Pediatr Res.* 1991;29:A138.)
26. Kao SCS, Wagener JS, Smith WL, Sato Y, Franken EA and Trigg ME. "Symptomatic pulmonary complications of bone marrow transplantation in children". Presented at the Annual American Roentgen Ray Society Meeting. May 7, 1991, Boston, MA
27. Sato Y, Menezes A, Nosaka S, Kao SCS and Smith WL. "Acute spinal injury in children: MR evaluation". Presented at the International Society of Pediatric Radiology Meeting. May 27- 31, 1991, Stockholm, Sweden
28. Harris KG, Yuh WTC, Kao SCS and Sato Y. "Retroclival hematoma in a survivor of occipito-atlantal disruption: MRI findings". Presented at the 29<sup>th</sup> Annual Meeting of the American Society of Neuroradiology. June 9-14, 1991, Washington, DC
29. Cook JS, \*Kao SCS and Hansen JR. "Pituitary volume by magnetic resonance imaging correlates with hormonal parameters in children with central precocious puberty". Presented at the Midwest Meeting of Clinical Research. November 6-8, 1991, Chicago, IL. (Abstract published in *Clin Res.* 1991;39:A741. \* indicates that I am the primary mentor to this presentation)
30. Kao SCS, Cook JS, Hansen JR and Simonson TM. "MR imaging of the pituitary gland in untreated central precocious puberty". Presented at the 77<sup>th</sup> Scientific Assembly and Annual Meeting of the Radiological Society of North America. December 1, 1991, Chicago, IL
31. Yuh WTC, Nguyen ET, Tali ET, Fisher DJ, Gao F, Simonson TM, Kao SCS, Harris KG and Weiner CP. "Fetal CNS abnormalities evaluated with MR imaging". Presented at the 30<sup>th</sup> Annual Meeting of the American Society of Neuroradiology. May 31-June 4, 1992, St. Louis, MO
32. Yuh WTC, Nguyen ET, Tali ET, Fisher DJ, Gao F, Simonson TM, Kao SCS, Harris KG and Weiner CP. "Fetal CNS abnormalities evaluated with MR imaging". Presented at the 11<sup>th</sup> Annual Meeting of the Society of Magnetic Resonance in Medicine. August 8-14, 1992, Berlin, Germany

33. Berbaum KS, El-Khoury GY, Kuehn DM, Dorfman DD, Meis D, Franken EA, Whitten C, Warnock N, Mueller D, Thompson B, Janson B, Kao SCS, Kathol M, Moore T and Smith WL. "Satisfaction of search in the detection of acute fractures in trauma patients with multiple images". Presented at the 78<sup>th</sup> Scientific Assembly and Annual Meeting of the Radiological Society of North America. December 1, 1992, Chicago, IL
34. Smith WL, Hanna B, Fink L, Newell C, Kao SCS and Hilsenrath P. "Effectiveness and cost of pediatric sedation". Presented by SCS Kao at the 78<sup>th</sup> Scientific Assembly and Annual Meeting of the Radiological Society of North America. December 2, 1992, Chicago, IL
35. Wen B, Hussey DH, Schelper RL, Kao SCS and Hitchon PW. "Role of radiation therapy in the management of pilocytic astrocytoma". Presented at the 78<sup>th</sup> Scientific Assembly and Annual Meeting of the Radiological Society of North America. December 4, 1992, Chicago, IL
36. Kao SCS and Tannous RA. "Childhood aggressive (desmoid) fibromatosis: Correlation between MRI characteristics and clinical response to chemotherapy". Short paper presented at the 36<sup>th</sup> Annual Meeting of the Society of Pediatric Radiology". May 12-15, 1993, Seattle, WA
37. Weismann DN, McGuinness GL, Kao SCS, Parker SL and Johnson KJ. "Urinary supersaturation characteristics in patients with bronchopulmonary dysplasia (BPD)". Poster presentation at the Annual Meeting of the Society for Pediatric Research (The American Pediatric Society). April, 1993
38. Nakagawa N, Cornelius A, Kao SCS, Nakajima Y and Nakada K. "Transcatheter oily chemoembolization for unresectable malignant liver tumors in children". Presented at the Annual Meeting and Postgraduate Course of the Cardiovascular and Interventional Radiological Society of Europe (CIRSE). June 20-24, 1993, Budapest, Hungary
39. Sato Y, Smith WL, Kao SCS, Aideyan U, Nguyen PT and Yuh WTC. "Comparison between T<sub>2</sub>-weighted conventional spin-echo and echo-planar images in brain lesions". Presented at the Society for Pediatric Radiology Meeting. April 28, 1994, Colorado Springs, CO
40. Danielson RC, Sato Y, Baumbach GL, Kao SCS and Menezes A. "Choroid plexus papilloma: *In utero* discovery and postnatal follow-up". Presented at the 32<sup>nd</sup> Annual Meeting of the American Society of Neuroradiology. May 3-7, 1994, Nashville, TN

41. Bauman NM, Oyos TL, Biaviati MJ, Kao SCS and Smith RJH. "Post-operative care following one stage laryngotracheoplasty". Presented at the American Society of Pediatric Otolaryngology Meeting. May 11, 1994
42. Michalson LS, Yuh WTC, Sato Y, Muhonen MG and Kao SCS. "Aneurysmal bone cyst by MR and CT: An unusual cause of hearing loss". Presented at the International Congress of Head and Neck Radiology. June 15, 1994, Washington DC.
43. Kao SCS and Kimura K. "Utility of electron-beam computed tomography (EBCT) in the dynamic assessment of pediatric trachea". Presented at the 8<sup>th</sup> Annual Symposium on Advances in Ultrafast CT 1994 – An International Symposium on Electron Beam Tomography. October 7, 1994, Scottsdale, AZ. (Abstract published in the Am J Cardiac Imaging. 1994;8(#4, suppl 1):8 (abstract 14).)
44. Kao SCS, Bell EF, Brown BP and Smith WL. "Duplex Doppler sonography of changes in portal vein in normal full-term newborns after feeding". Presented at the 39<sup>th</sup> Annual Convention of the American Institute of Ultrasound in Medicine. March 27, 1995, San Francisco, CA
45. Franken EA Jr and Kao SCS. "Nonoperative treatment of simple meconium ileus: A survey of the Society for Pediatric Radiology". Scientific paper presented at the 25<sup>th</sup> Annual Meeting and Postgraduate Course of The Society of Gastrointestinal Radiologists. March 24-29, 1996, Southampton Princess, Bermuda
46. Sato Y, Hayakawa M, Kao SCS and Menezes AH. "Craniosynostosis: Evaluation by helical CT". Scientific short paper presented at the 3<sup>rd</sup> Meeting of the International Society for Pediatric Radiology. May 25-30, 1996, Boston, MA
47. McCubbin MM, Ahrens R, Kao SCS, Seidel G and Teresi M. "Pseudomonas infection appears to precede the development of bronchiectasis on chest CT scan in young children with CF". Poster and oral presentation in Workshop on Outcome Measures in Infants at the 10<sup>th</sup> Annual North American Cystic Fibrosis Conference. October 24-27, 1996 Orlando, FL. (Pediatr Pulmonol Suppl. 1996;13:229.)
48. Wen B-Chen, Mayr NA, Hitchon PW, Kao SCS and Hussey DH. "Pilocytic astrocytoma: A retrospective review". Presented at the 38<sup>th</sup> Annual ASTRO Meeting. October 27-30, 1996, Los Angeles, CA. (Abstract published in the International Journal of Radiation Oncology, Biology, and Physics. 1996;36(1, suppl):293.)
49. Sato Y, D'Alessandro MP, Kao SCS, Takano H and Menezes AH. "Split atlas". Presented at the 40<sup>th</sup> Society for Pediatric Radiology Meeting. May 13-18, 1997, St. Louis, MO. (Abstract published in Pediatr Radiol. 1997;27:692.)

50. Kao SCS, Adamson SD and Tatman LH. "A survey of post-discharge side effects of conscious sedation using chloral hydrate in pediatric CT and MR imaging". Presented at the 83<sup>rd</sup> Scientific Assembly and Annual Meeting of the Radiological Society of North America. December 4, 1997, Chicago, IL
51. Uppaluri R, Hoffman EA, Ahrens RC, Kao SCS, Teresi ME and McGlennan G. "Objective CT-based measures of early cystic fibrosis lung disease". Presented at the Annual Biomedical Engineering Society Meeting. October 10-13, 1998, Cleveland, OH. (Abstract published in *Annals of Biomedical Engineering*.)
52. Kao SCS and Goldman FD. "Colo-colic intussusception of steroid-induced pneumatosis cystoides coli: Initially failed sonographic recognition and subsequent antegrade barium follow-through diagnosis and hydrostatic reduction". Presented at the 43<sup>rd</sup> Annual Meeting of the Society for Pediatric Radiology. May 3, 2000, Naples, FL
53. Kao SCS, Strabala NM, Berbaum KS, Hadley WL and Wang G. "CT volume estimation of primary abdominal tumors using ellipsoid model in children". Presented at the International Pediatric Radiology Meeting. June 1, 2001, Paris, France
54. Kao SCS and Hadley WL. "The effects of using various measurement methods in tumor response categorization". Presented at the Society for Pediatric Radiology Meeting. May 1, 2002, Philadelphia, PA
55. Yousef-Zahra D, Abu-Yousef M, Davis R, Nguyen V, Kao SCS and Stansfield B. "Comparison of two oral ultrasound contrast agents, sonorex and simethicone-water with rotation (SWR), in improving pancreatic visualization". Submitted to the American Roentgen Ray Society. 2003
56. Kao S. "The role of FDG-PET imaging in soft tissue tumors". Presented at the Children's Oncology Group Spring Meeting. April 2, 2004, Washington, DC
57. Khanna G, Sato Y, O'Dorisio S and Kao SCS. "Evaluation of pediatric CNS tumors with IN-111-Pentetreotide scintigraphy". Presented at the Society for Pediatric Radiology Meeting. May, 2004, Savannah, GA. (Abstract published in *Pediatr J.* 2004;34(suppl 1):72.)
58. Breitfeld PP, Anderson J, Kao SCS, Rodeberg D, Qualman S, Wolden S, Meyer W and the Soft Tissue Sarcoma Committee of the Children's Oncology Group. "Assessment of response to induction therapy and its influence on 5-year failure-free survival (FFS) in Group III rhabdomyosarcoma (RMS): Intergroup rhabdomyosarcoma study (IRS)-IV experience". Presented at the American Society of Clinical Oncology Meeting. June 5-8, 2004, New Orleans, LA (Abstract published in *Proc.Annu.Meet.Am.Soc.Clin.Oncol.* 23, 8513. 2004).

59. Hawkins D, Stoner J, Kao SCS, Rodeberg D, Hayes-Jordan A, Qualman S, Wolden S and Meyer W. "Prognostic significance of residual mass at the end of therapy in Group III rhabdomyosarcoma (RMS): Intergroup rhabdomyosarcoma study (IRS)-IV experience". Presented at the Annual Meeting of the American Society of Clinical Oncology. May 13-17, 2005, Orlando, FL. (Abstract published in Proc.Annu.Meet.Am.Soc.Clin.Oncol. 23, 800s. 2005)
60. Zachary Washburn BA, Geetika Khanna MBBS,MS, Yusuf Menda MD, Simon C Kao MD, Yutaka Sato MD, and Sue O'Dorisio MD,PhD. Evaluation of gastroenteropancreatic tumor in children (Presented at the Society for Pediatric Radiology Annual meeting, Miami, FL, April 19, 2007).

#### Scientific Exhibits/Posters

1. Kao SCS, Frey E, Sato Y, Smith W and Franken EA Jr. "Cine CT of extracardiac vascular lesions of the chest in pediatrics". Audiovisual Exhibit presented at 73<sup>rd</sup> Scientific Assembly of the Radiologic Society of North America. November 29-December 4, 1987, Chicago, IL
2. Sato Y, Yuh WTC, Matthews K, Wiese J, Kao SCS, Schreiber A, Farner R and Smith W. "MR imaging of white matter disease in children". Scientific exhibit (awarded *Certificate of Merit*) presented at 73<sup>rd</sup> Scientific Assembly of the Radiologic Society of North America. November 29-December 4, 1987, Chicago, IL
3. Crain MR, Sato Y, Yuh WTC, Edwards MT, Menezes A, Kao SCS and Parker S. "MR and CT comparison for evaluation of pediatric posterior fossa masses". Scientific exhibit presented at the Society of Magnetic Resonance Imaging Meeting. 1989
4. Parker S, Sato Y, Yuh WTC, Ellerbroek C, Alexander R, Smith WL and Kao SCS. "Brain MRI in child abuse. Scientific exhibit presented at the American Roentgen Ray Society Annual Meeting. May 7-12, 1989
5. Farner R, Sato Y, Yuh WTC, Kao SCS and Parker S. "Contrast enhanced MRI in the evaluation of the neurophakomatoses. Scientific exhibit presented at the American Roentgen Ray Society Annual Meeting. May 7-12, 1989
6. Crain M, Sato Y, Yuh WTC, Menezes A, Kao SCS and Parker S. "Comparison of MR and CT for evaluation of posterior fossa masses in childhood. Scientific Exhibit presented at the American Roentgen Ray Society Annual Meeting. May 7-12, 1989

7. Kao S, Waziri MH, Smith WL, Sato Y, Yuh WTC and Franken EA. "MR imaging of the craniocervical junction, cranium and brain in children with achondroplasia". Scientific Exhibit presented at the American Roentgen Ray Society Annual Meeting (awarded a *Certificate of Appreciation*). May 7-12, 1989
8. Kao S, Yuh WTC, Sato Y and Smith WL. "Gd-DTPA-enhanced MR imaging in pediatric patients". Scientific Exhibit presented at the American Roentgen Ray Society Annual Meeting (awarded a *Certificate of Appreciation*). May 7-12, 1989
9. Yuh WTC, Sato Y, Kao SCS, Crockett DM, Gray SD and Maves MD. "MR in pediatric head and neck lesions". Scientific Exhibit, presented at American Roentgen Ray Society Annual Meeting (awarded a *Certificate of Merit*). May 7-12, 1989
10. Nelson DR, Yuh WTC, Waziri MH, Ryals TJ, Sato Y, Kao SCS, Smith WL, Franken EA Jr and Williams RD. "MR in von Hippel-Lindau disease". Scientific Exhibit, presented at the American Roentgen Ray Society Annual Meeting (awarded a *Certificate of Appreciation*). May 7-12, 1989
11. Yuh WTC, Sato Y, Gray SD, Kao SCS, Smith WL and Franken EA Jr. "MR of head and neck cystic hygromas". Poster Session, presented at the 8<sup>th</sup> Annual Meeting of the Society of Magnetic Resonance in Medicine. August 14, 1989, Amstelhal, Amsterdam
12. Kao SCS, Haddad SF, Smith WL, Sato Y, Yuh WTC, Franken EA, Jr and Menezes AH. "Imaging of intracranial tumors in the first year of life". Scientific Exhibit, presented at the Annual Meeting of the Radiological Society of North America. December 1, 1989, Chicago, IL
13. Parker S, Sato Y, Yuh WTC, Ellerbroek C, Smith WL and Kao SCS. "Brain MRI in child abuse". Scientific Exhibit, presented at the Annual Meeting of the Radiological Society of North America. December 1, 1989, Chicago, IL
14. Buehner LS, Yuh WTC, Sato Y, Gray SD, Kao SCS, Smith WL, Dolan KD and Robinson RA. "MR of head and neck cystic hygromas". Scientific Exhibit, presented at the Society for Magnetic Resonance Imaging. February 24-28, 1990, Washington, DC
15. Sato Y, Parker S, Ellerbroek C., Alexander R, Smith WL, Kao SCS and Yuh WTC. "Brain MRI in child abuse". Scientific Exhibit, presented at the American Society of Neuroradiology. March 29-23, 1990, Los Angeles, CA
16. Kao SCS, Haddad SF, Smith WL, Sato Y, Yuh WTC, Franken EA Jr and Menezes AH. "Imaging of intracranial tumors in the first year of life". Scientific Exhibit, presented at the American Roentgen Ray Society Annual Meeting (awarded a *Certificate of Appreciation*). May 12-18, 1990, Washington, DC

17. Sato Y, Menezes AH, Muhonen MG, Yuh WTC, Kao SCS and Smith WL. "MR evaluation of craniovertebral junction abnormalities in pediatric patients". Scientific Exhibit, presented at the Annual Meeting of the Radiological Society of North America. November 26-30, 1990, Chicago, IL
18. Sato Y, Menezes A, Muhonen MG, Yuh WTC, Kao SCS and Smith WL. "MR evaluation of craniovertebral junction (CVJ) abnormalities". Scientific Exhibit, presented at the 29<sup>th</sup> Annual Meeting of the American Society of Neuroradiology. June 9-14, 1991, Washington, DC
19. Nakagawa N, Cornelius A, Kao SCS, Nakajima Y, Sato Y and Ryals T. "Successful transcatheter oily chemoembolization therapy of unresectable hepatic malignant tumors in children". Scientific Exhibit, presented at the Annual Meeting of The Society of Gastrointestinal Radiologists. February 16-21, 1992, Orlando, FL
20. Yuh WTC, Nguyen ET, Tali ET, Fisher DJ, Gao F, Simonson TM, Kao SCS, Harris KG and Weiner CP. "Fetal CNS abnormalities evaluated with MR imaging". Scientific Exhibit, presented at the 30<sup>th</sup> Annual Meeting of the American Society of Neuroradiology. May 31-June 4, 1992, St. Louis, MO
21. Maeda M, Simonson TM, Wang H, Tartaro A, Sato Y, Kao SCS and Yuh WTC. "Common posterior cranial fossa tumors in children: MR characteristics and value of contrast enhancement". Scientific Exhibit, presented at the Joint Proceedings of the 3<sup>rd</sup> Scientific Meeting and Exhibition of the Society of Magnetic Resonance and the 12<sup>th</sup> Annual Meeting and Exhibition of the European Society for Magnetic Resonance in Medicine and Biology. August 19-25, 1995, Nice, France
22. Kao SCS, Ehrhardt JC, Sato Y, D'Alessandro M and Smith WL. "Pediatric extracranial applications of MR angiography". Scientific Exhibit, presented at the 3<sup>rd</sup> Annual Meeting of the International Society for Pediatric Radiology. May 25-30, 1996, Boston, MA. (Abstract printed in *Pediatr Radiol.* 1996;26:616)
23. Hayakawa M, Sato Y, Takano H, Kao SCS, D'Alessandro M and Menezes A. "Craniosynostosis: Evaluation by helical CT". Scientific Exhibit, presented at the 34<sup>th</sup> Annual Meeting of the American Society of Neuroradiology. June 23-27, 1996, Seattle, WA
24. Franken EA, D'Alessandro M, Kao SCS, Sato Y and Smith WL. "Teleradiology as a complementary technology for gastrointestinal radiology in rural North America". Scientific Exhibit, presented at the 26<sup>th</sup> Annual Meeting and Postgraduate Course of The Society of Gastrointestinal Radiologists. March 9-14, 1997, Cancun, Mexico

25. Franken EA Jr, D'Alessandro M, Kao SC, Sato Y and Smith WL. "Teleradiology for pediatric radiology consultation to rural physicians". European Society of Pediatric Radiology. May, 1997, Lugano, Switzerland
26. Nguyen BC, Thompson B, Stanford W, Kao SCS and Lester D. "Radiographic manifestations of chest wall malignancies: A cornucopia of common and rare pathology with radiologic-pathologic correlation". Scientific Exhibit, presented at the 83<sup>rd</sup> Scientific Assembly and Annual Meeting of the Radiologic Society of North America. November 30-December 5, 1997, Chicago, IL
27. Miyazaki O, Sato Y, Cavalcanti M and Kao SCS. "Imaging spectrum of oculo-auriculo-vertebral syndrome (Goldenhar syndrome)". Scientific Exhibit, presented at the SNR XVI/ASNR 36 Meeting (awarded the *Summa Cum Laude Award*). May 15-21, 1998, Philadelphia, PA
28. Kao S and Abu-Yousef MM. "Pediatric case of the day/Quiz 6: Mineralizing lenticulostriate vasculopathy". Scientific Exhibit, presented at the American Institute of Ultrasound in Medicine Annual Meeting. April, 2000, San Francisco, CA. (Abstract in *J Ultrasound Med.* 2000;19:S135)
29. Keppler-Noreuil KM, Larsen Haidle J and Kao SCS. "Terminal deletion 7q35 qter in a patient with Currarino triad, Long QT syndrome and Hydronephrosis". Poster, presented at the Annual Clinical Genetics Meeting, American College of Medical Genetics. March 4, 2001, Miami, FL
30. Lili Huang, Ge Wang, Simon C. Kao and Jun Ni. "VoluMeasure<sup>TM</sup> : A portable Java program for stereological volume measurement". Presented at the Annual Meeting of the Radiological Society of North America. December 1-6, 2002, Chicago, IL
31. Breitfeld P, Anderson J, Kao SCS, Rodeberg D, Qualman S, Wolden S, Meyer W and the Soft Tissue Sarcoma Committee of the Children's Oncology Group. "Assessment of response to induction therapy and its influence on 5-year failure-free survival (FFS) in Group III rhabdomyosarcoma (RMS): Intergroup rhabdomyosarcoma study (IRS)-IV experience". Presented at the American Society of Clinical Oncology (ASCO) Meeting. Spring, 2004
32. Khanna G, Kao SCS, Kirby P and Sato Y. "Imaging of chronic granulomatous disease in children". Education Exhibit, presented at the Radiological Society of North America Annual Meeting (received *Certificate of Merit Award*; published in *RadioGraphics*). November 29-December 4, 2004, Chicago, IL
33. Policeni, BA; Smoker, WRK; Cassalman, JW; Kao, SCS. Aggressive Fibromatosis of the Submandibular Space. Scientific poster presented at the Annual Meeting of the ASHNR, San Francisco, September, 2005.

34. Policeni BA, Smoker WRK, Casselman JW, Kao SC. Aggressive Fibromatosis of the Submandibular Space. Scientific Exhibit at the 44<sup>th</sup> Annual Scientific Meeting of the American Society of Neuroradiology, April 29 – May 5, 2006 (*Cum Laude Award*)
35. Khanna G, Kao SCS, Kirby P, Sato Y, O'Dorisio SM. "Neuroendocrine tumors in children and young adults: advances in imaging and targeted therapy". (Education Exhibit to be presented at the RSNA 2006 meeting, received *Certificate of Merit Award*).
36. Khanna Geetika, Sato Yutaka, Kao Simon C, D'Alessandro Michael P, Washburn Zachary. 2006 RSNA Cases (5 cases) of the Day (presented at the 2006 RSNA meeting, Submitted to *Radiographics*)
37. Khanna G, Sato Y, Kao SCS, D'Alessandro M, Kirby P. 2007 RSNA Cases (5 cases) of the Day presented at the 2007 RSNA meeting. Cases of the Day are accessible at [www.rsna.org/education](http://www.rsna.org/education) and is designated for 1 *AMA PRA Category 1 Credit*<sup>TM</sup>.
38. Kao SCS, Khanna G, D'Alessandro M, Sato Y. Three Dimensional Computed Tomography (CT) in Pediatric Chest (Excluding Cardiac) Diseases (computer exhibit) Presented at the 2008 RSNA meeting and has been invited to submit as electronic publication in *Radiographics*).

**F. Pending decisions (grant proposals, book contracts)**

None

**IV. SERVICE**

**A. Professional affiliations (memberships)**

The Royal College of Radiologists (England)	Fellow since 1983
Radiological Society of North America	Member since 1985
American College of Radiology	Member since 1987
American Roentgen Ray Society	Member since 1988
The Society for Pediatric Radiology	Member since 1988
The American Institute of Ultrasound in Medicine	Member since 1988
Midwest Society of Pediatric Radiology	Member since 1988
Iowa Medical Society	Member 1988-1995
American Medical Association	Member 1988-1995
European Society of Pediatric Radiology	Assoc. Member (1991)
Children's Cancer Group (Imaging committee)	Member since 1991
Society of Gastrointestinal Radiologists	Member since 1992

Holden Comprehensive Cancer Center, UIHC

Member since 2005

**B. Offices held in professional organizations**

- |  |  |
|--|--|
| 07/91 – pres                                   | Member of the Tumor Imaging Committee of The Children’s Cancer Study Group (CCSG, renamed as Children’s Cancer Group, CCG) Tumor Imaging Committee member (appointed the point person coordinating the soft tissue tumor imaging group from April, 1997)           |
| 11/92 - 1995                                   | Member of CCG study CCG-T001 (Local control of sarcoma by intraoperative radiation therapy)  |
| 11/93 – 08/97<br>(Reappointed<br>11/97 – pres) | Member of the soft tissue tumor strategy group Children’s Cancer Group (CCG); appointed the point person for imaging of all soft tissue tumors   |
| 04/94 – 1996                                   | Member of the CCG study CCG-8004 (Arterial chemoembolization for unresectable hepatoma and recurrent hepatoblastoma in children)   |
| 1996 – 1999                                    | Member of the CCG-8961 study entitled “Chemoembolization for the treatment of children with non-metastatic hepatocellular carcinoma or chemotherapy resistant non-metastatic primary liver tumor”  |
| 1996 – present                                 | Reviewer for Children’s Cancer Group protocols and manuscripts prior to submission   |
| 1997 – present<br>1997 – 2003                  | Member of the CCG Young Investigator Committee<br>Member of the Pediatric Radiology Subcommittee (scientific paper) and moderator for the Scientific Session of the Radiological Society of North America Program Committee in 1997, 1998, 1999, 2000, 2001, 2002. |
| 1999 – present                                 | Member of the Neuroscience Committee of the Children’s Cancer Group  |
| 2001 -- 2003                                   | Chairman, Pediatric Radiology Subcommittee (scientific paper) and moderator for the Pediatric Radiology Scientific Session of the Radiological Society of North America Program Committee in 2001, 2002, 2003  |
| 2001 – present                                 | Steering Member of the Soft Tissue Sarcoma Disease Committee, Children’s Oncology Group  |
| 2001 – present                                 | Member of the Liver Tumor Disease Committee, Children’s Oncology Group   |
| 2003   | Moderator for the Pediatric Gastrointestinal Radiology Scientific Paper Session of the Annual Meeting of the Society for Pediatric Radiology, San Francisco, CA  |
| 11/03 – present                                | Committee Member to ARST 0321 study, Children’s Oncology Group, on “A study of Sulindac and Tamoxifen in Children and Young Adults With Desmoid Tumor”   |
| 2003 – present                                 | Committee Member to ARST 0332 study, Children’s Oncology Group, on “Risk based treatment for non-  |

rhabdomyosarcoma soft tissue sarcomas (NRSTS): a  
groupwise Phase III study”

## C. Editorships

### 1. Journals

- 05/97 – 12/05 Editor and reviewer to the Pediatric Radiology section of the  
“Radiology Resident Case of the Week” on the Virtual Hospital  
07/98 – 12/2005 Member of the *American Journal of Roentgenology* Editorial Panel for  
Pediatric Imaging  
12/08 – present Member of the Editorial Board in the Radiology Section of *Case  
Reports in Medicine (Hindawi Publishing Corporation)*

### 2. Books

*Imaging Children (two volumes) (2<sup>nd</sup> Ed., Carty H, Brunelle F, Stringer D and Kao SCS, Eds.)*. Elsevier Publisher. 2005. Section Editor or author for multiple chapters in the Sections on “Urinary system”, “Genital system”, “Endocrine system” and “Radiation issues in children”

Section 1. Radiation and Medical Imaging of Children (p.1-44)

- 1.1 Introduction by Simon Ching-Shun Kao (p.3-5)
- 1.2 The effects of radiation on the fetus and child by Fiorenza Ianzini, Mark T Madsen, and Simon Ching-Shun Kao (p.7-22)
- 1.3 Radiation dose and image quality by Walter Huda (p.23-31)
- 1.4 A practical approach to manage radiation exposure by Donald P Frush (p.33- 44)

Section 4. The Urinary Tract (p.537-882)

- 4.1 Introduction by Simon Ching-Shun Kao (p.537-540)
- 4.2 Embryology, Antenatal Imaging and Postnatal Evaluation by Jeanne S Chow, Judy A Estroff (p.541-566)
- 4.3 Normal Anatomy and Variants by Teresa Berrocal Frutos (p.567-588)
- 4.4 Anomalies of the Kidney by Teresa Berrocal Frutos (p.589-615)
- 4.5 Renal Disease and Renal Failure by Wouter FJ Feitz, Elisabeth AM Cornelissen, Johan G Blickman (p.617-641)
- 4.6 Duplex Systems and Related Anomalies by Teresa Berrocal Frutos (p.643-670)
- 4.7 Vesico-ureteral Reflux (VUR) by Michael Riccabona (p.671-689)
- 4.8 Infection and Inflammatory Diseases of the Urinary Tract by Michael Riccabona (p.691-712)
- 4.9 Bladder and Urachus by Erich Sorantin, Franz Linbichler, Richard Fötter (p.713-726)
- 4.10 The Urethra by Stephen J Kraus (p.727-760)
- 4.11 Trauma to the Urinary Tract by Maria T Raissaki (p.761-775)
- 4.12 Tumors of the Urinary Tract by Rita C Carneiro, Lynn A Fordham (p.777- 804)
- 4.13 Hydronephrosis and Urinary Tract Dilatation by Frederica Papadopoulou (p.805-834)

- 4.14 Urolithiasis and Urinary Tract Calcifications by Stephan J Kraus (p.835-857)
- 4.15 Urological Problems Associated with Anorectal Anomalies by Erich Sorantin, Franz Lindbichler, Richard Fotter (p.859-861)
- 4.16 Neurogenic Bladder by Erich Sorantin, Franz Lindbichler, Richard Fotter (p.863-869)
- 4.17 Lower Urinary Tract Dysfunction by Erich Sorantin, Franz Lindbichler, Richard Fotter (p.871-876)
- 4.18 Postoperative Imaging by Erich Sorantin, Franz Lindbichler, Richard Fotter (p.877-882)

Section 5. The Genital Tract (p.883-953)

- 5.1 Introduction by Simon Ching-Shun Kao (p.885)
- 5.2 The Scrotum and Testes by Lawrence Tan Thuan Heng (p.887-913)
- 5.3 Gynaecological Disorders in Children by Anne Paterson (p.915-941)
- 5.4 Sexual Development, Intersex and Ambiguous Genitalia by Anne Paterson (p.943-953)

Section 6. The Endocrine System (p.955-1020)

- 6.7 Disorders of Puberty by Anne Paterson (p.1015-1020)

**D. Journal reviewer**

1995 – present	<i>Spine</i>
1995 – present	<i>Jordan Medical Journal</i>
07/96 – present	<i>American Journal of Roentgenology</i>
09/98	<i>Journal of Pediatrics</i>
07/00	<i>Computerized Medical Imaging and Graphics</i>
11/00 – present	<i>Radiology</i>
11/03 – present	<i>Journal of American College of Radiology</i>
04/05 – present	<i>Annals of Otolaryngology, Rhinology &amp; Laryngology</i>
03/08 – present	<i>Journal of the Royal Medical Services</i>

**E. Departmental, collegiate or university committees**

1987 – present	MRI Pregnancy Advisory Committee, University of Iowa Hospitals and Clinics (UIHC), Iowa City, IA
07/88-2000	Member of Library Committee, Department of Radiology, UIHC, Iowa City, IA
09/93 – present	Member of the Medical Panel of the Credential Subcommittee of the UIHC, Iowa City, IA
11/93 – present	Member of the Advisory Committee of the Diagnostic Medical Sonography Program, UIHC, Iowa City, IA
1994 – present	Member of the Ultrasound Quality Assurance Committee, UIHC, Iowa City, IA

1994 – present	Member & Chairman of the Pediatric Sedation Committee, Radiology Department, UIHC, Iowa City, IA
1995 – 2004	Member of the Contrast Media Committee, UIHC, Iowa City, IA
1998 – 2004	Member of the Promotions and Tenure Committee of the Department of Radiology, UIHC, Iowa City, IA
1999 – present	Member of the Gender Issues Multispecialty Management (GIMM) Team, UIHC, Iowa City, IA
12/2000 – present	Chairman, Library Committee, Department of Radiology, UIHC, Iowa City, IA
2001 – present	Member, Radiology Educational Roundtable, Department of Radiology, University of Iowa College of Medicine, UIHC, Iowa City, IA
2002	Chair of an <i>Ad Hoc</i> committee to assess the scholarship component of the UIHC Department of Radiology faculty salary, UIHC, Iowa City, IA
2002	Interviewer for candidates applying for the UI Doris Duke Clinical Research Fellowship Program, UIHC, Iowa City, IA
2002 – present	Resident Selection Committee, Department of Radiology, UIHC, Iowa City, IA
2003 – 2005	Member of the Annual Evaluation Committee of the Department of Radiology, UIHC, Iowa City, IA
2004 – 2005	Member of <i>Ad Hoc</i> Emergency Treatment Center Process Improvement Committee, UIHC, Iowa City, IA
2005 and 2006	Chairman of the Promotion, Tenure (Internal Peer Review Committee), and Annual Review Committee, Department of Radiology, UIHC, Iowa City, IA
2007 – present	Member of the Interdepartmental pediatric surgical services, UIHC, Iowa City, IA
2007 October – present	Member of the University of Iowa Hepatobiliary Disease Center

## **F. Clinical assignments since last promotion**

### Inpatient

Performance and interpretation of plain radiographs, fluoroscopy, ultrasound, computed tomography, magnetic resonance imaging, nuclear medicine, and interventional procedures in pediatrics. Consultations in Pediatric Radiology with pediatricians and surgeons

### Outpatient

Performance and interpretation of plain radiographs, fluoroscopy, ultrasound, computed tomography, magnetic resonance imaging, nuclear medicine, and interventional procedures in pediatrics. Consultations in Pediatric Radiology with pediatricians and surgeons

Other

Attending outreach radiology service with Marengo Memorial Hospital and Keokuk County Health Center approximately one day a month till ~ 2002

Teleradiology and consultative services with Marengo Memorial Hospital, Keokuk County Health Center, etc. for all age groups till year 2000, and pediatric age group from 2000 to present

Attending Radiologist with Iowa City Veterans' Administration Medical Center, covering once to twice per month till ~2004

Medical staff with Teleradiology privileges only at the Iowa Health Des Moines from 6-13-07 to present