

CURRICULUM VITAE

Samir B. Kahwash, M.D.

Office Address: Nationwide Children's Hospital
700 Children's Drive
Columbus, Ohio 43205
(614) 722-5427

Current Position: *Vice Chair for Education and Director, Pediatric Pathology Fellowship Training Program, January 2004 – present*
Director, Transitional Training Program in Laboratory Medicine, 2007-2008
Director, Hematopathology Services, July 1993 - present
Staff Pathologist, Department of Laboratory Medicine, Children's Hospital, Columbus, OH (July 1, 1993 – present)
Clinical Associate Professor, The Ohio State University, Awarded: July 1, 2000, (On faculty starting on July 1, 1993 as Clinical Assistant Professor)
Staff Hematopathologist and Hematopathology Fellowship Faculty, Ohio State University (OSU): December, 1998 – present

Other Positions: *Director, Transfusion Service, July 1, 1998 - June 30, 1999*

Certification and Boards:

- Board Certified in Pediatric Pathology, American Board of Pathology, August 20, 1999
- Certificate of Fellowship in Pediatric Pathology, June 30, 1993
- Board certified in Hematology/Pathology; American Board of Pathology, June 1, 1992
- Certificate of Fellowship in Hematology/Pathology, June 30, 1992
- Board certified in combined Anatomic and Clinical Pathology (AP/CP), American Board of Pathology, November 20, 1991
- Certificate of Residency in Anatomic and Clinical Pathology, June 30, 1991

Licensure:

- Ohio State Medical License Awarded: September 30, 1992 - (Active)
- Pennsylvania State Board of Medicine, Awarded: August 10, 1987 - (Inactive)
- E.C.F.M.G. (Valid indefinitely #A6160)

Fellowships:

Pediatric Pathology
July 1, 1992 - June 30, 1993
Children's Hospital, Columbus, Ohio
Stephen J. Qualman, M.D., Chairman

Hematology/Pathology
July 1, 1991 - June 30, 1992

Medical College of Pennsylvania,
Allegheny General Hospital Campus, Pittsburgh, Pennsylvania
Robert J. Hartsock, M.D., Chairman
Karl R. Fox, M.D., Director, Division of Clinical Pathology

Chief Resident: *Allegheny General Hospital, Pittsburgh, Pennsylvania*
July 1, 1990 - June 30, 1991

Residency: *Anatomic and Clinical Pathology*
July 1, 1986 - June 30, 1991
Medical College of Pennsylvania, Allegheny General Hospital Campus,
Pittsburgh, Pennsylvania
Robert J. Hartsock, M.D., Chairman

Education: *Undergraduate and Medical School (A six year combined program)*
Damascus University Medical School 1977 - 1983
Jacque Ghazzi, M.D., Dean
Damascus, Syria
Degree: M.D., Awarded: August 1983
Scholastic Average: Very Good

English Literature Course
ELS Language Center of Saint Joseph's University, Philadelphia,
Pennsylvania. (January 1984)

Medical and Clinical Sciences Courses
S.H. Kaplan Educational Center, Pittsburgh, Pennsylvania:
February, 1984 - June 1986

Research Assistant in Electromyography Unit
Presbyterian University Hospital, Pittsburgh, Pennsylvania
June, 1985 - June 1986

Professional Associations:

- Children Oncology Group (C.O.G. - since 2001)
- Society of Pediatric Pathology (since 1993)
- College of American Pathologists (Fellow member since 1992)
- American Society of Clinical Pathologists (Member since 1990)
- Central Ohio Society of Pathologists

Honors and Awards:

- Department of Laboratory Medicine "2007 Educator of the Year" award (presented January 9, 2008)
- Columbus Children's Hospital Certificate of Recognition Award for dedicated service (September 12, 2007)
- The Ohio State University Recognition Award (Academic 2003 - 2004): Awarded for outstanding commitment and contribution to education of residents and fellows at the Department of Pathology
- Academic Merit Scholarship to College/Medical School combined program, Damascus University,

Awarded: 1977 -1983

- Certificate of Academic Excellence, Ministry of Education, Syria: Awarded: 1977 for ranking 8th nationwide in the general (Pre-college) examination - Science branch

Teaching Experience

- Medical students, residents and fellow trainees (present)
- Training medical students and residents in pediatrics, pathology (OSU and AGH) and Hematopathology fellows (OSU)
- Ohio State University Medical Students, 2nd year (1992 -1998)
- Medical Technology Program, Department of Laboratory Medicine, Allegheny General Hospital (1987-1992)
- Completed Pediatric Pathology Fellowship training for:
 - Vivekanand Singh, M.S. - 2004
 - Bonita Fung, M.S. - 2005
 - Robin LeGallo, M.D. - 2005
 - Mohammad Mahboob, M.D. - 2007
 - Latha Urs, M.D. - 2006 to 2008
 - Lisa Stevens, D.O. - 2008
 - Kelley Mast, M.D. - 2008
- Annual Organ Anatomy and Gross Pathology teaching sessions to Columbus Academy high school students, May 16-17, 2007 and May 15-16, 2008,

Administrative, Committee and Other Experience:

- Director, Hematology Laboratory Service, Children's Hospital, 1993 - Present
- Director, Transitional Training Program in Laboratory Medicine, Children's Hospital, 2007 - Present
- Director, Pediatric Pathology Fellowship Program, Children's Hospital, January 2004 - Present
- Member, The Ohio State University Residency Advisory Committee, 2007 - Present.
- Member, The Ohio State University Pathology Education Committee, 2008 - Present
- Member, Nationwide Children's Hospital Faculty Development Committee, 2006 - Present
- Member, Nationwide Children's Hospital ACGME Committee, 2004 - Present
- Inspection Team Leader, College of American Pathologists, 1995- Present
- Editorial Consultant to The American Journal of Surgical Pathology, 1998 – 2000
- Selected CME:
 - 1- Practicum in Flow Cytometry and DNA Analysis at Cedars-Sinai Medical Center, Los Angeles, CA .July 9-19, 1996
 - 2- Medical Leadership Course: September 2002- January 2004, Children's Hospital, Columbus, Ohio
 - 3- Senn-Delaney Leadership Course: March 13-14, 2008

Academic Research and Grants:

- C.O.G. Reference Lab for study of Acute Lymphoblastic Leukemia (C.O.G # AALL03B1): Institutional Grant (5% protected time), Organized and led initial effort and stages of the application process (Study started in January 2003-Current).
- C.O.G. Pediatric AML/MDS (Review A2971)
Co-Investigator and Reviewer (2001-2004).

- Neuroblastoma Pathology Review: C.O.G. # 528506 (2007-current)
- Reviewer for C.O.G. AAMLO531: A Phase III trial of a new AML treatment in children (2006-current).

Publications and Selected Abstracts:

- Bedrnicek J, Thornton D, Salamon D, **Kahwash S**: Genetic Testing for Inherited Thrombophilia Risk Factors: Data from a Major Pediatric Institution. Abstract presented as Platform presentation at the Spring Meeting of the Society for Pediatric Pathology, Boston, MA, on March 7, 2009. [Abstract published in *Modern Pathology* (2009)22, pp 322-323.
- Urs L, Qualman S, **Kahwash S** : Juvenile Myelomonocytic Leukemia: Report of Seven Cases and Review of Literature. Published in *Pediatr Dev Pathol* 12,136-142 ,2009
Pediatr Dev Pathol 2008 Aug 22:1. [Epub ahead of print]
- Songrug Tanakorn; Adler, Brent A; **Kahwash, Samir B** : *Burkitt's Lymphoma/Leukemia in a 15-Year Old Male*. *Radiology Case Reports*, Vol 3:2, 2008. pp1-8.
- Urs L, Stevens L, **Kahwash S**: Leukemia presenting as Solid Tumors: Report of Four Cases and review of the Literature. *Pediatr Dev Pathol* 2008 Jan 7:1 [Abstract Published ahead of Print]
- Higman MA, Schwartz CL, Chen L, Chen AR, Friedman D, Hutchison R, **Kawash SB**, Orr C, Ambinder RF. Epstein Barr viral DNA in the serum of children and adolescents with Hodgkin disease and early response to chemotherapy. Abstract published in *J Clin Oncol*. 26: 2008 (May 20 Suppl.).
- Swedan N, Nicol K, Moder P, **Kahwash S**. An "acquired" hemoglobin J variant in a sickle cell disease patient. *Therapeutics and Clinical Risk Management*, Volume 4, No 3, 2008. PP649-652.
- Mast K, Qualman S, **Kahwash S**. The interaction of Beta and alpha thalassemia co-inheritance in one family. Presented in abstract at SPP Meeting, October 25-26, 2007, Phoenix, AZ.
- **Kahwash S**, Fung B, Savelli S, Bleesing J, Qualman S. Autoimmune Lymphoproliferative Syndrome (ALPS): A Case with Congenital Onset. *Pediatric and Developmental Pathology*. Vol 10, 2007. pp 315-319.
- Kesserwan C, Boue D, **Kahwash S**. Isolated Juvenile Xanthogranuloma in the Bone Marrow: Report of a Case and Review of the Literature. *Pediatric and Developmental Pathology*. Vol 10, 2007. pp 161-164.
- Nicol K, Swedan N, Moder P, **Kahwash S**, Rose M, Kerlin B. Hemolytic anemia in a 5-year old child. *Lab Medicine*. Vol 37:12, December 2006.
- Koesters N, Bruney J, **Kahwash S**, Yeager N, Mrozek K, Heerema NA. Complex karyotype in a rare cutaneous gamma/delta T-cell lymphoma. Poster Presentation AGT, June 2, 2006, Abstract published in *J Assoc Genetic Technologists* 32:111, 2006.

- Legallo RD, **Kahwash S**, Lindsey T.: A 7 month old infant girl with anemia: Beta Thalassemia Intermedia. *Arch. Pathol. Lab. Med.* Vol. 130, June, 2006.
- Picu, M.; **Kahwash S**, Crumbacher, J.; Blanchong, C.: An 8-year old girl with thrombocytopenia. Bernard-Soulier syndrome variant. *Arch. Pathol. Lab. Med.* Vol. 129(12), December, 2005, e214-7.
- Fung, BR; Savelli, S.; **Kahwash, SB**. Autoimmune Lymphoproliferative Syndrome: A congenital case starting in the spleen and spreading to bone marrow and peripheral blood. (Presented in abstract at the Joint meeting of Pediatric Pathology Society and Society of Pediatric Pathology, (August 31 to September 3, 2005, Tours, France). Abstract published in *Pediatric & Developmental Pathology* Vol. 9, No 5, 2006.
- B.R. Fung, M.D.; **S. Kahwash, M.D.**; P. Trice, MT (ASCP) SH: A 17 month-old girl with erythrocytosis: A case of HbS/HBFH, double heterozygous, *Arch. Pathol. Lab. Med.* Vol. 129, August, 2005.
- Saxena, K., Ranalli, M., Khan, N., Blanchong, C., **Kahwash, SB**: Fatal stroke in a child with severe iron deficiency anemia and multiple hereditary risk factors for thrombosis. *Clin Pediatr (Phila)*. 2005, Mar; 44(2): pp175-180.
- Park A., Morgenstern K.E., **Kahwash SB**, Foster, J.A.: Pediatric canaliculitis and stone formation. *Ophthal Plast Reconstr Surgery* 2004. May; Vol 20(3), pp 243-246.
- Wynn,TT; Heerema,NA; Hammond,S.; Ranalli,M.; **Kahwash, SB** : Acute Lymphoblastic Leukemia with Hypereosinophilia: Report of a Case with 5q Deletion and Review of the Literature. *Pediatric and Developmental Pathology* (Vol.6, Number 6, Nov/Dec. 2003), pp 558- 563.
- Bayoumy, M; Jamil, A; Wynn,T; **Kahwash,Samir** ; Klopfenstein,K; Ruymann,F : Prenatal Presentation Support in Utero Development of Congenital Leukemia: A case report, *J. Ped. Hematology/Oncology* (Vol.25, Number 2, Feb. 2003), pp 148-152.
- **Samir Kahwash**, Stephen Qualman: Cutaneous Lymphoblastic Lymphoma in Children: A report of six cases with precursor B cell lineage. Presented at the Society for Pediatric Pathology Meeting, March 20, 1999. Published in: *Pediatric and Developmental Pathology* 2002; Jan./Feb, (5): pp 45-53.
- Carol A. Blanchong, Randal Olshefski, **Samir Kahwash**: Large granular cell leukemia: A case report of chronic neutropenia and rheumatoid arthritis-like symptoms in a child. *Pediatric and Developmental Pathology* 2001; (4): pp 94-99.
- Jamil A, Theil K, **Kahwash S**, Ruymann FB, Klapfenstein KJ: TEL/AML1 Fusion Gene: its frequency and prognostic significance in childhood acute lymphoblastic leukemia. *Cancer Genetics and Cytogenetics* 2000, Oct 15; 122(2): pp 73-78.
- **S. Kahwash**, Z.D. Zhong; W.A. Newton, Jr., M.S. Hammond, A. Rauck, C. Hutchinson, E.T. Boles,

Jr., S.J. Qualman, S. Groffenman, F. Ruymann: Hodgkin's Disease in children: A review of 147 cases diagnosed and treated over a span of 50 years. Presented to the annual meeting of the Society for Pediatric Pathology, March 25, 2000 and at the 21st Annual Children's Hospital Research Forum, Columbus, Ohio, June 1-2, 2000.

- Lingyun Zhu, **Samir Kahwash**, and Long-Sheng Chang: Developmental Expression of Mouse Erythrocyte Protein 4.2 mRNA: Evidence for Specific Expression in Erythroid Cells. Published in *BLOOD*; Vol. 91, No. 2 (January 15), 1998: pp 695-705.
- Graham B S, **Kahwash S**, Durbin J E: Immunopathology of Respiratory Syncytial virus Infection, using knockout mice to study pathogenesis, (Presented to the Society for Pediatric Pathology Annual Meeting, March 1, 1998.)
- D. Boué, S. Qualman, S. Hammond, **S. Kahwash**, G. Schauer: Fatty acid oxidation disorders and sudden "unexplained" death in children: Presented at the annual meeting of the Society for Pediatric Pathology, Sept. 26, 1997. Minneapolis, MN. Abstract published in *Pediatric and Developmental Pathology*, Vol. 1 (3), 1998.
- A.Rauck, J.Y. Tang, **S. Kahwash**, W.A. Newton, Jr., C.L. Huchison, F.B. Ruymann: Pathologic review of 191 cases of pediatric Non-Hodgkin's lymphoma at Children's Hospital, Columbus, Ohio (1945-1995): Histology, Clinical features and survival. Presented to ASPH/O annual meeting September 10-12, 1998.
- Jing Y. Tang, MD, **Samir Kahwash M.D.**, Carol Hutchison, CTR, Amanda M. Rauck MD, Frederick B. Ruymann MD, William A. Newton, Jr. MD: Burkitt's Lymphoma In Children: A 50 year experience at a single mid-Ohio, USA, institution. *International Journal of Pediatric Hematology/Oncology*. Vol. 6(3), pp199-207, 1999. (Presented to the International Society of Pediatric Oncology (SIOP), Sept. 1997).
- D.A. Martinez, M.D., **Samir Kahwash, M.D.**, M. Sue O'Dorisio M.D., Ph.D., Thomas V. Lloyd, M.D., Robert B. McGhee, Jr., M.D., Stephen Qualman, M.D.: Disseminated Neuroblastoma In The Nude Rat: A Xenograft Model of Human Malignancy. *CANCER* Jan 15, 1996/Volume 77/Number 2, pp 409-419. (Presented in the annual meeting of the Society of Pediatric Pathology, March 13, 1993, and to the 14th annual research forum of Columbus Children's Hospital June 4, 1993).
- Malynda Fox, Debbie Crum, Frederick Ruymann, M.D., **Samir Kahwash, M.D.**, Jody Sneddon, Thomas Olson, M.D.: Use of nurse screening in evaluation of children referred for bleeding workup: Increased savings in outpatient testing. (Presented at the National Hemophilia Foundation Annual Conference Philadelphia, PA, October 13-15, 1995. Also presented at the American Society of Pediatric Hematology/Oncology Annual Meeting, Alexandria, VA, September 28-30. Published in *Hemophilia Nursing Network/Psychosocial News* (1995 summer), p. 13.
- Jennifer Jaroscak M.D., **Samir Kahwash, M.D.**, Alfred Grovas, M.D., Amanda Rauck, M.D.: Acute lymphoblastic leukemia as a secondary malignancy: Two case reports and a review of literature (Presented to the sixteenth annual research forum of Children's Hospital, Columbus, 1995)
- Rauck A, McCart L, Martinez D, **Kahwash S**, Qualman S.: A nude rat model of human neuroblastoma using orthotopic implantation (Presented to the 14th annual research forum of Columbus Children's Hospital, June, 1993).

- Ayser C. Hamoudi, M.D., **Samir Kahwash, M.D.**: Retinal hemorrhage in an infant with fulminant group B streptococcal meningitis (Presented to Interim Meeting of Society of Pediatric Pathology, October 1993).

Selected Presentations and Seminars:

- Clinical Pathologic Correlation: Tonsils: The Spectrum of Pathologic Findings. Grand Rounds, May 1, 2008. Presented with Dr. Richard Kang and Dr. Joanne Lagmay. Nationwide Children's Hospital, Columbus, Ohio.
- Pediatric Hematopathology: How different? Seminar in Pathology, January 9, 2008. Nationwide Children's Hospital, Columbus, Ohio.
- Diagnostic Images in Medicine, Seminar in Pathology, May 10, 2007. Nationwide Children's Hospital, Columbus, Ohio.
- The Best Test of All Time. Seminar in Pathology, September 5, 2007. Nationwide Children's Hospital, Columbus, Ohio.
- Leukemias Presenting as Solid Tumors, Seminar in Pathology, September 6, 2006. Children's Hospital, Columbus, Ohio.
- Selected Cases in Hematopathology, Seminar in Pathology, June 22, 2006. Children's Hospital, Columbus, Ohio.
- Organisms in diagnostic pathology: Morphologic diagnosis and pattern recognition. Seminar in Pathology, February 24, 2006. Children's Hospital, Columbus, Ohio.
- The Best Test of All Time: CBC with PB smear examination. Seminar in Pathology, September 28, 2005. Children's Hospital, Columbus, Ohio.
- Bone Marrow Examination: The Big Picture. Seminar in Pathology, January 26, 2005. Children's Hospital, Columbus, Ohio.
- Selected Cases and Stories in Laboratory Medicine. Seminar in Pathology, October 13, 2004. Children's Hospital, Columbus, Ohio.
- Acute Lymphoblastic leukemia with hypereosinophilia, a case presentation with clinical pathological review, Grand Rounds, May 8, 2003. Children's Hospital, Columbus, Ohio.
- Thrombotic Tendency: Overview and update of Laboratory work-up, Learn and Lounge Seminar, February 7, 2003. Children's Hospital, Columbus, Ohio.
- Granulocytic Sarcoma (Chloroma): A clinical pathologic presentation of congenital leukemia with Monoblastic immunophenotype in a newborn. Medical Grand Rounds, September 6, 2001. Children's Hospital, Columbus, Ohio.

- Clinical and pathologic diagnosis of graft versus host disease: Lecture to Children's Cancer Group (CCG) affiliates meeting, May 11, 2000.
- Fanconi Anemia complicated by a liver tumor: A case presentation and clinical pathologic correlation. Medical Grand Rounds, January 28, 1999. Children's Hospital, Columbus, Ohio.
- Hemoglobin Electrophoresis: Principal, Methods, and Case Presentations. Central Ohio Society of Pathologists, November 13, 1997.
- Systemic Histoplasma Infection in an 8-month-old Child. Medical Grand Rounds, October 23, 1997. Children's Hospital, Columbus, Ohio.
- Systemic Histoplasma Capsulatum Infection. Medical Grand Rounds, April 25, 1996. Children's Hospital, Columbus, Ohio.
- Disseminated Histoplasma Capsulatum in a 4 Month Old Infant. Central Ohio Society of Pathologists, December 5, 1995.
- Opportunistic Fungal Infections. Medical Grand Rounds, October 1, 1995. Children's Hospital, Columbus, Ohio.
- Disseminated Neuroblastoma in the Nude Rat: Oral presentation at the Society for Pediatric Pathology meeting, Plastic Large Cell Lymphoma: A case presentation with clinical, microscopic, and molecular findings. Central Ohio Society of Pathologists, October 4, 1994.

Selected Published Photos/Images :

- **Samir Kahwash, M.D.** *Histology Teaser (Parasympathetic nerve ganglion) .* ASCP Lab Medicine, Volume 40, No. 4, April, 2009, page 195.
- **Samir Kahwash, M.D.:** *Histology Teaser (what is the structure?- Sneeze droplet).* ASCP Lab Medicine, Volume 39, No. 12, December, 2008, page 741.
- **Samir Kahwash, M.D.:** *Histology Teaser (Capillary vessel).* ASCP Lab Medicine, Volume 39, No. 11, November, 2008, page 643.
- **Samir Kahwash, M.D.:** *Gross Specimen Teaser (Autosomal recessive polycystic kidney disease).* ASCP Lab Medicine, Volume 39, No. 7, July, 2008, page 387.
- **Samir Kahwash, M.D. :** Valentine Day Monocyte , ASCP Lab Medicine, Volume 37, No. 2, February 2006.
- **Invited National and International Lectures and Seminars:**
 - The 4th Annual Hosn Medical Conference (Syria, August 7-10, 2008) two presentations, and one workshop.
 - Pediatric Hematopathology: Some Unique Aspects. Ohio Society of Pathologists Winter Meeting,

February 2, 2008. Columbus, Ohio.

- Selected Cases in Pediatric Hematopathology. Ohio Society of Pathologists Winter Meeting, February 2, 2008. Columbus, Ohio.
- American Society for Clinical Laboratory Science- Ohio: Educational Conference, May 12-13, 2005. Quest Conference Center, Columbus, Ohio (Invited Speaker- three lectures.)
- The 2nd Annual Hosn Medical Conference (Syria, August 11, 2006) three presentations.
- Society of Syrian Pathologists Annual Conference, April 6-7, 2005 (Homs, Syria) directed a workshop on bone marrow pathology. Presented two lectures.
- Society of Syrian Pathologists Annual Conference, April 4-5, 2004 (Palmyra, Syria) presented two lectures.
- Cases in Pediatric Hematology: A Coulter sponsored seminar. October 29, 1996. Ohio State University Fawcett Center, Columbus, Ohio.
- Hematology in Children: Lecture to the Indiana and Ohio Societies for Clinical Laboratory Science convention, April 19, 1995. Fairborn, Ohio.