

## GUIDELINES FOR HANDLING PEDIATRIC LUNG BIOPSIES

### 1. SITE AND SIZE OF BIOPSY:

For focal disease, the biopsy should be taken from a **region of involvement**.

For diffuse lung disease, the biopsy should be taken from **any site, except the tip of the right middle lobe or the tip of the lingula**. These areas tend to show disproportionately severe changes and may lead to a faulty impression of degree of injury.

Recommended size is approximately **2-3 cm wide and at least 1 cm deep** for open or thoracoscopic wedge lung biopsy. This allows adequate quantity of tissue for special studies and provides adequate depth of biopsy for assessment of airways.

### 2. SPECIMEN HANDLING IN PATHOLOGY:

#### **SPECIAL STUDIES:**

While the specimen is fresh, portions of the biopsy should be submitted for special studies from the lateral edges of the biopsy, as indicated below. If there is insufficient material for all studies, they should be prioritized according to clinical indications.

1. **Microbiology cultures (sterile)** – bacterial, viral, fungal and/or acid fast
2. **Rapid diagnosis of opportunistic infection** – 6 total touch imprints (3 air-dried, 3 alcohol-fixed) for special stains
3. **Electron microscopy** – fixed in glutaraldehyde – few small pieces (1 mm each)
4. **Molecular diagnostics** (viral, genetic) – snap frozen in a cryovial
5. **Immunofluorescence** – inflate with OCT/sucrose\* and snap freeze in a cryomold with OCT (see technique below).

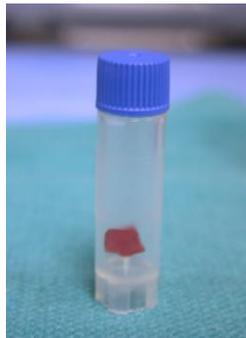
#### **Cultures**



#### **EM**



#### **Snap freeze (PCR)**



#### **Snap freeze in OCT (IF)**



#### **Touch preps (3 EtOH fixed, 3 air dried)**



\* **Technical Note: Freezing lung tissue in OCT.** Inject a section of lung tissue with OCT/sucrose mixture (equal parts OCT cryomatrix and 0.5 molar sucrose) using a tuberculin syringe. The sucrose is used to decrease the viscosity of the OCT and allows injection and expansion of the lung tissue prior to freezing. OCT/sucrose can be kept in the refrigerator in the grossing area and should be warmed to room temperature before use. Draw up the OCT/sucrose mixture into a tuberculin syringe through the hub (with the needle removed). Replace the needle and gently inflate the tissue section. Place the inflated section in a cryomold, embed it in OCT (not OCT/sucrose mixture), and snap freeze in liquid nitrogen.

#### **HISTOPATHOLOGY:**

The remaining mid-portion of the lung biopsy should be fixed by inflation with formalin. Remove the staple line. Fill a tuberculin syringe (or other fine needle and syringe) with formalin and gently inflate the biopsy by puncturing the pleura with the needle and using gentle pressure to inflate the lung tissue. Some fluid will leak from the surfaces, but the tissue will visibly distend and retain most of the formalin. Reposition the needle and continue injecting until the tissue appears maximally expanded. Place it in a container with additional formalin and let it fix for approximately 15-20 minutes before sectioning and submitting cassettes for histology. Section the tissue perpendicular to the resection margin, such that each plane of section is wedge-shaped, including the central flat edge and the peripheral angle.



#### 3. **PEDIATRIC LUNG PATHOLOGY CONSULTATION SERVICE:**

Please send **1 H&E recut slide** of each block and at least **6 unstained slides** (or a representative block) to the following address:

**Megan K. Dishop MD**  
**Pathology Laboratory, Mailstop 32-B600**  
**Children's Hospitals and Clinics of Minnesota**  
**2525 Chicago Ave S.**  
**Minneapolis, MN 55404**  
Ph: 612-813-6521  
Fax: 612-813-7721  
Email: [megan.dishop@childrensMN.org](mailto:megan.dishop@childrensMN.org)

Also include a copy of the pathology report and any relevant clinical information (clinical summary, H&P, Pulmonary consult note, Diagnostic imaging/Chest CT results, etc.). Frozen and EM tissue may be retained until requested for further diagnostic evaluation.

rev: mkd 04/07/15

## Megan K. Dishop, M.D.

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Children's Hospitals and Clinics of Minnesota  
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Minneapolis, MN 55404 USA  
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Fax: 612-813-7721  
Email: [megan.dishop@childrensmn.org](mailto:megan.dishop@childrensmn.org)

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### Education

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|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Bachelor of Science (B.S.) in Biology (Cum Laude).</b> Duke University, Durham, North Carolina.                                                | August 1989 – May 1993 |
| <b>Doctorate of Medicine (M.D.).</b> Wake Forest University (Bowman Gray School of Medicine), Winston-Salem, North Carolina.                      | August 1993 – May 1997 |
| <b>Residency, Anatomic and Clinical Pathology.</b> University of Kentucky College of Medicine, A.B. Chandler Medical Center, Lexington, Kentucky. | July 1997 – June 2002  |
| <b>Fellowship, Pediatric Pathology.</b> Baylor College of Medicine, Texas Children's Hospital, Houston, Texas.                                    | July 2002 – June 2003  |

### Current Position

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Medical Director of Anatomic Pathology, Children's Hospitals and Clinics of Minnesota, Minneapolis-St. Paul, Minnesota.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | March 2015 - present |
| <ul style="list-style-type: none"><li>• Administrative leadership of histology laboratory, surgical pathology and autopsy services.</li><li>• Pediatric surgical pathology service.</li><li>• Pediatric gastrointestinal biopsy service.</li><li>• Pediatric autopsy service.</li><li>• Pediatric hematopathology and cytopathology service.</li><li>• Evening and weekend general clinical pathology call responsibility.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |
| <b>Expert Consultant in Pediatric Lung Pathology.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2004 – present       |
| <ul style="list-style-type: none"><li>• Diagnostic Consultation practice for pediatric lung disease, including pediatric acute respiratory disease and infection, chronic interstitial lung disease, surfactant dysfunction disorders, hemorrhage syndromes, autoimmune disease, small airway disease, genetic and developmental disorders, congenital malformations, and pediatric lung tumors.</li><li>• National and International client referral base, including the United States (over 40 states, D.C.) and over 30 other countries (Canada, England, France, Belgium, Switzerland, Spain, Greece, Italy, Denmark, Norway, Sweden, Czech Republic, Poland, Bulgaria, Croatia, Israel, Qatar, Turkey, Saudi Arabia, China, Hong Kong, Thailand, Philippines, Malaysia, India, Venezuela, Argentina, Brazil, Columbia, Australia, New Zealand, South Africa).</li></ul> |                      |

- Approximately 250 outside consultation cases annually (124 in 2009; 177 in 2010; 187 in 2011; 220 in 2012; 266 in 2013; 265 in 2014).
- Faculty member, The Breathing Institute, Children's Hospital Colorado.
- Medicolegal expert witness for pediatric lung disease.

### Prior Professional Experience

**Pediatric Pathologist, Texas Children's Hospital and Baylor College of Medicine, Houston, TX.** July 2003-May 2009.

- General surgical pathology service, Gastrointestinal biopsies, Heart transplant, Lung transplant, Liver transplant biopsies, Renal biopsies.
- Autopsy service, 2-3 days per month. Autopsy lung pathology reports, 150/year, 2004-2009.
- Evening and weekend general clinical pathology call responsibility (1 week every 4-5 weeks), 2003-2007.
- Consultation service in Pediatric Lung Disease, 2004-2009.

**Pediatric Pathologist, Children's Hospital Colorado and University of Colorado School of Medicine, Aurora, CO.** May 2009-February 2015

- Pediatric surgical pathology service (3 weeks of 10).
- Pediatric gastrointestinal biopsy service (5 weeks of 10).
- Pediatric autopsy service (8 weeks of 10).
- Evening and weekend general clinical pathology call responsibility (3 weeks of 10).
- Hematopathology and cytopathology service coverage, as needed.

### Academic Appointments

**Assistant Professor of Pathology, Baylor College of Medicine.** July 2003 – April 2009

**Visiting Professor of Pathology, University of Kentucky College of Medicine.** November 2003 – 2011

**Associate Professor of Pathology, Baylor College of Medicine.** April 2009 - May 2009

**Associate Professor of Pathology, University of Colorado School of Medicine.** May 2009 – February 2015

**Adjoint Professor of Pediatrics, University of Colorado School of Medicine.** March 2015 - present.

### Certification and Licensure

**Diplomate, American Board of Pathology, Anatomic and Clinical Pathology Board Certification.** Time-unlimited board certification. July 29, 2002

**Diplomate, American Board of Pathology, Pediatric Pathology Subspecialty Board Certification.** Time-unlimited board certification. September 18, 2003

**Medical License, Commonwealth of Kentucky.** 1997-2008

<b>Medical License, State of Texas, L6863.</b>	2002-2011
<b>Medical License, State of Colorado, DR47718.</b>	2009-2015
<b>Medical License, State of Minnesota, 58923.</b>	2015-present
<b>National Provider Identification (NPI) number 1609822568</b>	

### Professional Memberships and Activities

<b>United States and Canadian Academy of Pathology.</b> Moderator, Pediatric Pathology Evening Specialty Conference, annual meetings 2016-18.	1997 – present
<b>American Society of Clinical Pathologists.</b>	1997 – present
<b>College of American Pathologists.</b> Junior member, Surgical Pathology Committee, 1999-2001 (2-year term). Fellow member (FCAP), 2003-present. Member, Surgical Pathology Committee, 2007-2013 (6-year term). Case Manager, Performance Improvement Program, Surgical Pathology Committee, 2009-2013. Member, Pediatric Cancer Protocol Review Panel, 2014 – present. Member, Pediatric Pathology Learning Portal, Pulmonary Disease panel, 2015.	1997 – present
<b>Society for Pediatric Pathology.</b> Moderator, Platform session IA, Society for Pediatric Pathology annual meeting, Atlanta GA, February 2006. Moderator, Poster session I, Society for Pediatric Pathology annual meeting, Denver, CO, March 2008. Member, Education Committee, 2007 – 2015. Member, Slide survey subcommittee, 2007 – 2015. <i>Chair, Slide survey subcommittee</i> , November 2008 – March 2015. Moderator, Poster session, Paediatric Pathology Society/Society for Pediatric Pathology joint meeting, Birmingham, UK, September 2014.	1998 - present
<b>Children’s Oncology Group.</b> Member, COG Pathology Discipline Steering Committee, February 2006 - present. Member and Pathology Representative, COG Membership Committee, February 2006 - present. Member, COG Institutional Performance Monitoring Committee (IPMC), April 2013-present.	2004 – present
<b>Children’s Interstitial Lung Disease (chILD) Research Network.</b> Member, Pathology Working Group, 2004 – present. Pathology coordinator, Denmark-United States chILD case review meeting, Department of Pathology, The Children’s Hospital, Denver, CO, January 2010. Pathology working group coordinator, Denver chILD retreat, Children’s Hospital Colorado,	2004 – present

March 2013.

**Pulmonary Pathology Society.** 2005 – present  
Member, ad hoc committee for new member recruitment, 2007.  
Moderator, Platform session, Pulmonary Pathology Society annual meeting, Portland, OR,  
June 2009.

## Honors and Awards

<b>Howard Hughes Fellowship for Undergraduate Research in the Biological Sciences</b> , Duke University, Durham NC.	1993
<b>Chief Resident, Anatomic and Clinical Pathology</b> , Department of Pathology, University of Kentucky A.B. Chandler Medical Center, Lexington, KY.	July 2001- June 2002
<b>Resident Teaching Award</b> , given annually to the resident showing outstanding teaching of fellow residents, Department of Pathology, University of Kentucky A.B. Chandler Medical Center, Lexington, KY. 2000-2001 academic year, 2001-2002 academic year.	June 2001, June 2002
<b>Recognition of Service to Pediatric Hematology-Oncology</b> , awarded by the Division of Pediatric Hematology-Oncology for teaching at Pediatric Tumor Board, University of Kentucky A.B. Chandler Medical Center, Lexington, KY.	June 2002
<b>Excellence in Teaching by a non-Pediatrics Faculty Member</b> , first annual award given by the Department of Pediatrics, Texas Children's Hospital, Baylor College of Medicine, Houston, TX.	November 2007
<b>Faculty Award for Outstanding Resident Teaching in Anatomic Pathology</b> , 2007-2008, awarded by the Department of Pathology, Baylor College of Medicine, Houston, TX.	May 2008
<b>Best Doctors in America.</b> Elected by peers for inclusion in Best Doctors in America®.	2009, 2010, 2011, 2012, 2013, 2014, 2015-16
<b>Summit Award for Excellence in Teaching and the Education of Pathologists</b> , awarded by the Department of Pathology to the top 10% of faculty members based on faculty evaluations completed by residents and fellows, University of Colorado School of Medicine, Denver, CO. 2009-2010 academic year, 2011-2012 academic year, 2013-2014 academic year.	2010, 2012, 2014
<b>"Top Doc" in Pediatric Pathology</b> , awarded by 5280 magazine and elected by vote of physicians in the Denver metropolitan area, Denver, CO.	2011, 2012, 2013, 2014, 2015
<b>Selected participant, Association of American Medical Colleges (AAMC) Mid-Career Women Faculty Professional Development Seminar</b> , Austin, TX.	December 2011
<b>Distinguished Colleague Award, Society for Pediatric Pathology</b> , presented "in appreciation of your effective management and continued dedication to the SPP Slide Survey through this period of changing ACCME and AMA certification requirements", Presented at the SPP Spring	March 2012

Meeting, Vancouver, BC, March 2012.

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Award for Excellence in Teaching from University of Colorado Child Health Associate/Physician Assistant Program Pathology Course</b> , (Rated 4.0 or above on a 5.0 scale). 2011-12 academic year, 2012-13 academic year, 2013-14 academic year. | July 2012,<br>August 2013,<br>August 2014 |
| <b>Letter of Recognition for Excellence in Teaching</b> from Annual Housestaff Survey, 2011-12.                                                                                                                                                     | August 2012                               |
| <b>Certificate of Recognition as an Exemplary Mentor</b> in the positive development of junior colleagues in the profession. Awarded by The Quality of Life Research Center.                                                                        | April 2013                                |
| <b>Certificate of Recognition for College of American Pathologists Committee Service 2013</b> , for outstanding service and lasting contributions as a Member of the Surgical Pathology Committee.                                                  | May 2014                                  |
| <b>Distinguished Colleague Award, Society for Pediatric Pathology</b> , presented "in appreciation of your effective management of the SPP Slide Survey Program", Presented at the SPP Spring Meeting, Boston, MA. March 2015.                      | March 2015                                |
| <b>America's Top Doctors in the specialty of Pathology.</b> Selected by Castle Connolly Medical Ltd.                                                                                                                                                | March 2015                                |

## Administrative Leadership and Service

### LABORATORY AND ORGANIZATIONAL LEADERSHIP

**Director, Anatomic Pathology Quality Assurance program**, Department of Pathology, Texas Children's Hospital, January 2008 – 2009.

**Program Director, Pediatric Pathology Fellowship Program**, Children's Hospital Colorado, University of Colorado School of Medicine, October 2010-November 2014.

*Initiated new program and achieved initial 3-year ACGME accreditation, October 2010. Created new program policies and new program manual. Created and maintained scheduling for new weekly conference series and didactic curriculum for pediatric pathology fellow and rotating residents, including faculty didactic series, case seminars, journal club, and unknown slide conference. Served as career mentor for pediatric pathology fellows. Integrated fellow into the anatomic pathology quality program and mentored quality projects. Created pre-test and post-test objective examinations for pediatric anatomic pathology rotation at Children's Hospital Colorado. Created Semi-annual evaluation form used as "Best Practice" example by UCSOM Graduate Medical Education office. Successful ACGME re-accreditation (10 years), April 2014. Successful recruitment of pediatric pathology fellows beginning July 2011, 2012, 2014, 2015, 2016.*

**Director, Quality Management Program for Anatomic Pathology**, Department of Pathology and Laboratory Medicine, Children's Hospital Colorado, University of Colorado School of Medicine, March 2011-January 2013.

**Co-Chair, Faculty Promotions Committee, University of Colorado School of Medicine**, November 2012-June 2014. *Chair of one committee meeting monthly. Subcommittee member selection for one committee meeting monthly. Presentation of FPC committee recommendations for approval at monthly Executive Committee meeting, chaired by Dean of UCSOM.*

**Faculty Officer, University of Colorado School of Medicine Faculty Senate**. President-Elect 2014-15. *Responsible for planning and leadership of the School of Medicine Faculty Senate meetings, attendance and reporting to the Dean's monthly UCSOM Executive Committee meetings.*

**Medical Director of Anatomic Pathology**, Children's Hospitals and Clinics of Minnesota, Minneapolis-St. Paul, Minnesota, March 2, 2015 - present. *Weekly meetings with anatomic pathology supervisor. Weekly meetings with anatomic pathology medical staff. Anatomic pathologist service scheduling. Development of histology services cost analysis and fee schedule, March-April 2015. Optimization of H&E stain, March-April 2015. Audit of CPT coding and billing practices with creation of pathology CPT coding guidelines, May 2015. Anatomic Pathology policy and procedure revision, May 2015. Preparation and oversight for Anatomic Pathology and Cytopathology laboratory inspections at CHCMN by College of American Pathologists Laboratory Accreditation Program, September 2015. Investigation of barcoding and tracking software, April-May 2015. Implementation of Leica Aperio whole-slide scanning technology, March-May 2015. Implementation of Dragon Medical voice recognition technology in pathology, April-May 2015. Revision of pediatric autopsy templates, May 2015. Contract for Jesse Edwards cardiac registry histology services, August 2015. Chair of AP Quality planning committee, September 2015.*

### QUALITY IMPROVEMENT COMMITTEES

Member, Specimen Mislabeling Performance Improvement Team, University of Kentucky, June-July 2001.

Lab Inspector, Anatomic Pathology and Cytology, College of American Pathologists, Laboratory Accreditation Program, Children's Hospital, Jacksonville, FL, 2004.

Lab Inspector, Anatomic Pathology and Cytology, College of American Pathologists, Laboratory Accreditation Program, St. Jude Children's Research Hospital, Memphis, TN, January 2006.

Member, Ad Hoc End-of-Life Process Committee, Children's Hospital Colorado, Aurora, CO, November 2010-January 2011.

Member, Practice Review Team (PRT), hospital performance improvement committee responsible for peer review of adverse events involving physician and advanced practitioner decision-making and system errors, Children's Hospital Colorado, Aurora, CO, February 2011-February 2015.

Member, Committee for Clinical Operations and Effectiveness (CCOE), formerly Clinical Effectiveness and Improvement Committee (CEIC), Children's Hospital Colorado, Aurora, CO, March 2011-January 2013.

#### **OTHER DEPARTMENTAL, HOSPITAL, AND UNIVERSITY ADMINISTRATIVE SERVICE**

Project supervisor, Digital Imaging Project and Equipment Procurement, Texas Children's Hospital, 2003-5. Awarded \$70,000 from Capital Equipment Committee for upgrade of digital imaging equipment for pathology faculty.

Faculty supervisor, Pathologist Assistant (Karla Sternberg), Department of Pathology, Texas Children's Hospital, 2004-2007.

Member, Organ Donation and Transplantation Ad-hoc subcommittee, Texas Children's Hospital, March 2007 – 2009.

Member, University Faculty Promotions Committee, University of Colorado School of Medicine, November 2011 – June 2014.

Member, Strategic Planning Team, Department of Pathology, Children's Hospital Colorado, September 2012-August 2013. *Participated actively in divisional team meetings to perform SWOT analysis and formulate strategic goals. Performed benchmarking study with peer children's hospitals for justification of new faculty recruitment. Presented Strategic Vision for Pediatric Anatomic Pathology to Chief Medical Officer and PPARDI Division Chief.*

Interviewer and Selection Committee Member for New Employee Hiring, Department of Pathology, Children's Hospital Colorado, 2012-2013. *Interviewed candidates for two staff assistant positions and anatomic pathology manager position. Provided input for annual performance evaluations of office staff and histology technical staff.*

Member, Mid-Term Promotion Review Committee for Dr. Paul Jedlicka, University of Colorado School of Medicine Department of Pathology, May 2014.

Voting member, Executive Committee, chaired by the Dean of University of Colorado School of Medicine,

Anschutz Medical Campus, Aurora, Colorado, September 2014-February 2015.

**Search Committee Member**, Section Head of Pediatric Hematology-Oncology, Department of Pediatrics, Children's Hospital Colorado, September-November 2014.

Member, Mid-Term Promotion Review Committee for Dr. Nicole Draper, University of Colorado School of Medicine Department of Pathology, November-December 2014.

## **MEDICAL EDUCATION COMMITTEES**

Member, Hematology-Oncology Fellowship Internal Review Committee, University of Kentucky, 2001.

Member, Resident Oversight Committee, Chief Resident, Department of Pathology, University of Kentucky, 2001-2.

Member, Pathology Course Core Curriculum Committee, Department of Pathology, Baylor College of Medicine, 2004-2008.

Member, Pathology Residency Curriculum Committee, Department of Pathology, Baylor College of Medicine, 2007-2008.

Member, Scholarship Oversight Committee, Dr. Jennifer Rama, pulmonary fellow, Division of Pediatric Pulmonary Medicine, Texas Children's Hospital, 2007-2009.

Member, Scholarship Oversight Committee, Dr. Binal Kancharla, pulmonary fellow, Division of Pediatric Pulmonary Medicine, Texas Children's Hospital, 2007-2009.

Member, Graduate Medical Education Committee, University of Colorado School of Medicine, October 2010 to February 2015.

Member, Curriculum Committee/Program Evaluation Committee for Pathology Residency, Department of Pathology, UCSOM, January 2011 to February 2015.

Member, Residency Oversight Committee, Department of Pathology, UCSOM, January 2011 to February 2015.

**Chair, Internal Review Team** for Transplant Hepatology Fellowship Program (Division of Gastroenterology, Department of Medicine), University of Colorado School of Medicine, February 2011-May 2011.

**Chair, Internal Review Team** for Child Abuse Fellowship Program (Department of Pediatrics), University of Colorado School of Medicine, April 2013.

Member, Clinical Competency Committee, Anatomic and Clinical Pathology Residency Program, Department of Pathology, University of Colorado School of Medicine, March 2014 to February 2015.

Member, Clinical Competency Committee, Hematopathology Fellowship Program, Department of Pathology, University of Colorado School of Medicine, February 2014 to February 2015.

## **Educational Activities**

## **MEDICAL STUDENT DIDACTIC LECTURES**

*Pediatric Pathology I and II*, two hours.

Second year Medical Student Curriculum, Texas A&M University, College Station, TX. October 2004, October 2005, September 2006, September 2007, September 2008.

*Pathology of the Adrenal Gland and Thymus*, one hour. Endocrinology module, Medical Student Curriculum, second year, Baylor College of Medicine, Houston, TX. 2005, 2006, 2007, 2008.

*Interstitial Lung Disease*, one hour. Respiratory module, Medical Student Curriculum, second year, Baylor College of Medicine, Houston, TX 2005, 2006, 2007, 2008.

*Response to Injury*, one hour. Respiratory module, Medical Student Curriculum, second year, Baylor College of Medicine, Houston, TX. 2005, 2006, 2007, 2008.

*Pediatric Pathology I (general topics) and II (tumor pathology)*, two hours.

Second year Medical Student Curriculum, University of Kentucky A.B. Chandler Medical Center, Lexington, KY. April 2001, 2002, April 2003, November 2003, November 2004, November 2005, November 2006, November 2007, November 2008, November 2009, November 2010, November 2011.

*Congenital heart disease*, one hour.

Second year Medical Student Curriculum, University of Kentucky A.B. Chandler Medical Center, Lexington, KY. November 2003, November 2004, November 2005, November 2006, November 2007, November 2008, November 2009, November 2010, November 2011.

## **MEDICAL STUDENT PROBLEM-BASED LEARNING AND SMALL GROUP TEACHING**

University of Kentucky, 1998-2002. Medical, Physician assistant, Physical therapy, and Pharmacy students.

Baylor College of Medicine, 2002-2009. Medical students, first and second year.

University of Colorado-Denver School of Medicine, Medical student curriculum, 2 hours each, 2009 to 2013.

2009-10: Nephritic disease. Nephrotic disease. Pulmonary infection. Gastrointestinal disease.

2010-11: Hepatitis. Prostate, testicular, and ovarian tumors. Breast, placenta, and fetus.

2011-12: Esophagus/stomach. Enteritis/IBD. Pancreas, gallbladder. Gastrointestinal tumors.

2012-13: Gastrointestinal tumors. Gastrointestinal disease. Hemodynamic disorders. Fetus, Placenta, Breast.

## **PHYSICIAN ASSISTANT STUDENT DIDACTIC LECTURES**

*Inflammation and Infectious Disease*, one hour. Physician Assistant student curriculum, University of Kentucky A.B. Chandler Medical Center, Lexington, KY. 2000.

*Pulmonary infection*, one hour. Physician Assistant student curriculum, University of Colorado School of Medicine, Denver, CO, April 2012, April 2013, April 2014.

*Pulmonary vascular disease, Acute Lung Injury, and Interstitial lung disease*, one hour. Physician Assistant student curriculum, University of Colorado School of Medicine, Denver, CO. April 2012, April 2013, April 2014.

*Obstructive lung disease and Pulmonary Function Testing*, one hour. Physician Assistant student curriculum, University of Colorado School of Medicine, Denver, CO, April 2012, April 2013, April 2014.

## **PHARMACY STUDENT DIDACTIC LECTURES**

*Breast Pathology*, one hour. Pharmacy student curriculum, University of Kentucky A.B. Chandler Medical Center, Lexington, KY. 2000-2.

*Dermatopathology*, one hour. Pharmacy student curriculum, University of Kentucky A.B. Chandler Medical Center, Lexington, KY. 1999-2002.

## **GRADUATE MEDICAL EDUCATION: PATHOLOGY RESIDENCY AND FELLOWSHIP TRAINING**

Surgical Pathology Unknown Slide Conference (weekly), Texas Children's Hospital, Baylor College of Medicine, Pediatric Pathology Fellowship 2002-3.

Presenter, Autopsy Conference, Texas Children's Hospital, Pediatric Pathology Fellowship 2002-3. *Approach to osteochondrodysplasias. Niemann-Pick disease type B. Surfactant protein abnormalities. Review of genetic syndromes. Placental pathology in maternal antiphospholipid antibody syndrome. Congenital heart disease workshop. Hepatic neoplasia in children.*

Gross Lung Pathology Conference (weekly), Faculty presenter, Department of Pathology, Texas Children's Hospital, Baylor College of Medicine, 2004-2009.

Didactic Lectures, Residency Program, Department of Pathology, Baylor College of Medicine, Houston, TX. (*Pathology of pulmonary infections 2008. Lung transplant pathology 2008. Pulmonary hypertension 2008. Interstitial lung disease 2008.*)

Surgical Pathology Unknown Conference, Residency Program, Department of Pathology, University of Colorado School of Medicine (*Pediatric lung disease 2009, Bone tumors 2010, Genetic Syndromes 2011, Pediatric and Placental Pathology 2012, Pediatric Pathology Challenge Cases 2013, Pediatric Gonadal Pathology Cases November 2014*).

Didactic Lectures, Residency Program, Department of Pathology, University of Colorado School of Medicine (*Congenital heart disease 2010, Pediatric diffuse lung disease 2010, Pediatric lung biopsy in older children 2011, Congenital heart disease 2012, Congenital heart disease 2013, Congenital Heart Disease: Review of Pathology and Surgical Repair November 2014*).

Pediatric Surgical Pathology Unknown Slide Conference (monthly), Faculty presenter, Pediatric Pathology Fellowship Program, Children's Hospital Colorado Department of Pathology, July 2011 – June 2013, July 2014 - present.

Didactic Lectures, Pediatric Pathology Fellowship, Department of Pathology, University of Colorado School of Medicine (*Pediatric lung biopsy 2011, "Name that Syndrome" Quiz 2011, Congenital Heart Workshop 2012, Pediatric Lung Cysts 2012, Metabolic Disorders 2012, Congenital Heart Workshop 2013, Genetic forms of lung disease 2014*).

## **GRADUATE MEDICAL EDUCATION: RESIDENCY AND FELLOWSHIP TRAINING IN PEDIATRICS,**

## **PEDIATRIC SUBSPECIALTIES, AND PEDIATRIC SURGICAL SUBSPECIALTIES**

Pediatric Hematology-Oncology Tumor Board (weekly presenter), University of Kentucky A.B. Chandler Medical Center, 1998-2002.

Surgery-Radiology-Pathology Conference (weekly presenter), Texas Children's Hospital, Pediatric Pathology Fellowship, 2002-3.

Surgery-Radiology-Pathology Conference (weekly attendance), Texas Children's Hospital, 2003-9.

Pediatrics Resident Conference, Feigin Rounds (ad hoc faculty presenter), Texas Children's Hospital, 2003-8.

Critical Care Conference (ad hoc faculty presenter), Texas Children's Hospital, 2003-9.

Allergy-Immunology Conference (ad hoc faculty presenter), Texas Children's Hospital, 2003-9.

Pediatric Tumor Board (weekly attendance, ad hoc faculty presenter), Texas Children's Hospital, 2003-9.

Endocrinology Conference (ad hoc faculty presenter), Texas Children's Hospital, 2004.

Pulmonary-Radiology-Pathology Conference (monthly faculty presenter), Texas Children's Hospital, 2004-9.

Pediatrics Residency Clinical-Pathologic Correlation Conference, Texas Children's Hospital, Baylor College of Medicine.

Lecture, "*Disorders of glucose and insulin metabolism: Infant of diabetic mother and leprechaunism*", 2003.

Lecture, "*Juvenile polyposis syndrome*", 2008.

Pediatric Pulmonary Fellows' conference, Pediatric Pulmonology division, Texas Children's Hospital, Baylor College of Medicine.

Lecture, "*Lung development*", 2007.

Pediatric Infectious Disease Fellows' conference, Pediatric Infectious Disease division, Texas Children's Hospital, Baylor College of Medicine.

Lecture, "*ID images quiz game*", 2008.

Lecture, "*Pathology of Pulmonary infection*", 2008.

Neonatology Fellows' conference, Neonatology division, Texas Children's Hospital, Baylor College of Medicine.

Lecture, "*Genetic disorders of surfactant metabolism*", 2008.

Lecture, "*Normal and Abnormal lung development*", 2009.

Lecture, "*Genetic disorders of the neonatal lung*", 2009.

Pediatric Pulmonary-Radiology-Pathology Conference (monthly presenter), Children's Hospital Colorado, 2009-present.

Hematology-Oncology Fellows/Resident Conference (on-service presenter), Children's Hospital Colorado, 2009-2012.

Pediatric Orthopedic Surgery-Radiology-Pathology Conference (monthly presenter), Children's Hospital

Colorado, 2009-2012.

Pediatric Surgery Conference (monthly presenter), Children's Hospital Colorado, 2009-present.

Pediatric Urology-Radiology-Pathology Conference (monthly presenter), Children's Hospital Colorado, 2009-present.

Pediatric Pulmonary Fellows' conference, Pediatric Pulmonary division, Department of Pediatrics, Children's Hospital Colorado and University of Colorado School of Medicine.

Lecture, "*Lung biopsy 101*", September 2009.

Lecture, "*Lung biopsy 102*", April 2010.

Lecture, "*Normal lung histology and pathologic correlations*", April 2011.

Lecture, "*Congenital lung malformations*", June 2013.

Lecture, "*Pediatric lung transplant pathology*", August 2014.

Lecture, "*Pediatric pulmonary board review: Laboratory testing*", August 2014.

Children's Interstitial Lung Disease (chILD) Team Case Review Conference (monthly presenter), The Breathing Institute, Children's Hospital Colorado, 2011-present.

Western States Regional Pediatric Pulmonary Conference (monthly teleconference), ad hoc pathology support for Pediatric Pulmonary Fellow Presenters, Children's Hospital Colorado, 2011-present.

Pediatric Endocrinology Conference (quarterly presenter), Children's Hospital Colorado, 2011-present.

Pediatric Kidney Biopsy Conference (quarterly presenter), Children's Hospital Colorado, 2014-present.

Neonatology Fellows' conference, Neonatology Division, Department of Pediatrics, Children's Hospital Colorado and University of Colorado School of Medicine.

Ad hoc presenter, Morbidity and Mortality Case Conference.

Lecture, "*Neonatal autopsy*", September 2014.

Pediatric Infectious Disease conference, Department of Pediatrics, Children's Hospital Colorado and University of Colorado School of Medicine.

Ad hoc presenter, Weekly case conference.

## **MENTORSHIP FOR STUDENTS, RESIDENTS, AND FELLOWS**

Medical student experience in Pathology, Baylor College of Medicine. Coordinator for Anatomic Pathology experience at Texas Children's Hospital. 2004-2009.

Medical student elective in Pediatric Infectious Disease, Baylor College of Medicine. Coordinator for Anatomic Pathology experience at Texas Children's Hospital. 2005-2009.

Clinical Preceptor in Pediatric Pathology, Foundations of Doctoring Thesis year course, IDPT 7655, Children's Hospital Colorado.

- Jing Jing Zhang, UCSOM MD PhD student, MSIII, April 23-24, May 27-30, 2014.

Clinical Preceptor in Pediatric Pathology, Pediatrics Longitudinal Block Elective Rotation, Department of

Pediatrics Residency Program Curriculum, Children's Hospital Colorado and University of Colorado School of Medicine.

- Dr. Stephen Hawkins, 1 week training in pediatric lung pathology, July 2011.
- Dr. Jordana Elway, 2 week training in pediatric lung pathology, December 2011.
- Dr. Heather Hoch, 2 week training in pediatric lung pathology, August 2012.
- Dr. Heidi Cho, 1 week training in pediatric hematology-oncology (solid tumor pathology), May 2013.
- Dr. Jessica Wynalek, 2 week training in pediatric rheumatologic pathology, September-October 2013.

Pediatric Pulmonary Medicine Fellowship Program, Elective rotation, Children's Hospital Colorado and University of Colorado School of Medicine.

- Dr. Deborah Liptzin, 2 week training in pediatric lung pathology, January 2013.

Site Director, Required Rotation in Pediatric Anatomic Pathology, 2-month block (6 residents annually), Pathology Residency Program, University of Colorado School of Medicine, 2010-present.

Site Director, Elective Rotation in Pediatric Anatomic Pathology at Children's Hospital Colorado, 1-month block, Pathology Residency Program, University of Colorado School of Medicine, Aurora, Colorado.

- Dr. Andrew Rohrer, pediatric bone and soft tissue pathology elective rotation, June 2012.
- Dr. Willis Barrow, pediatric bone and soft tissue pathology elective rotation, December 2013.
- Dr. Kimi Verilhac, pediatric bone and soft tissue pathology elective rotation, September 2014.
- Dr. Kristen Zhelnin, pediatric bone and soft tissue pathology elective rotation, October 2014.

Site Director, Elective Rotation in Pediatric Anatomic Pathology at Children's Hospital Colorado, 1-month block (average 2 residents annually), Pathology Residency Program, Penrose Medical Center, Colorado Springs, Colorado, 2010-2014.

Advisor and Mentor, Pathology Residency Program, University of Colorado School of Medicine.

- Dr. Bradford Siegele, residency career advisor in pediatric pathology, July 2013-present.
- Dr. Damon Olson, career advisor in pediatric pathology, 2013-14.
- Dr. Jerod Shows, career advisor in pediatric pathology, 2013-14.

Pediatric Pathology Fellowship Key Teaching Faculty for:

- Dr. Amy Heerema-McKenney (BCM, 2003-4), Academic pediatric pathologist at Stanford University.
- Dr. Sara Szabo (BCM, 2003-4), Academic pediatric pathologist at University of Wisconsin/Wisconsin Children's Hospital.
- Dr. Karen Eldin (BCM, 2004-6), Academic pediatric pathologist at Baylor College of Medicine/Texas Children's Hospital.
- Dr. Eileen McKay (BCM, 2004-6), Academic pediatric pathologist at University of Pennsylvania/Children's Hospital of Philadelphia.
- Dr. Supriya Kuruvilla (BCM, 2006-7), Pediatric pathologist, Reading, Pennsylvania.
- Dr. Sandy Cope-Yokoyama (BCM, 2006-8), Pediatric pathologist at Cook Children's Medical Center, Fort Worth, Texas.
- Dr. Robert Byrd (BCM, 2008-9), Pediatric pathologist, Tulsa, Oklahoma.

- Dr. Aaron Wagner (UCSOM, 2011-12), see below.
- Dr. Miran Rhee-Anagnost (UCSOM, 2012-13), see below.
- Dr. Amanda Krausert (USCOM, 2014-15), see below.

Advisor and Pediatric Pathology Fellowship Program Director, University of Colorado School of Medicine, for:

- Dr. Aaron Wagner (UCSOM, 2011-12, successful board certification; Pediatric Pathologist and Neuropathologist at Orlando Regional Medical Center, Orlando, FL).
- Dr. Miran Rhee-Anagnost (UCSOM, 2012-13, successful board certification; Pediatric Pathologist and Surgical Pathologist at LMC Pathology Services, Las Vegas, NV).
- Dr. Amanda Krausert (UCSOM, 2014-15).

### **CONTINUING MEDICAL EDUCATION: MENTORSHIP FOR VISITING PATHOLOGISTS AND EXTERNAL ROTATORS IN PEDIATRIC LUNG DISEASE**

- Dr. CW Chow, Pediatric Pathologist, Melbourne, Australia, one-week visit to Texas Children's Hospital, Houston TX, 2008.
- Dr. Theresa Hayes, Pediatric Pathologist, San Antonio, TX, one-week visit to Texas Children's Hospital, Houston TX, 2008.
- Dr. Elvira Stacher, Pulmonary Pathologist, University of Graz, Austria, one-month visit to Children's Hospital Colorado, Denver, CO, January 2012.
- Mr. Kabeer Shah, Pathology Student Fellow, University of Kentucky Department of Pathology, one-month elective rotation, co-authored chapter on Infantile Respiratory Viruses, Children's Hospital Colorado, Denver, CO, March 2012.
- Dr. Jennifer M. Boland-Froemming, Pulmonary Pathology Fellow, Mayo Clinic Department of Pathology, two-week elective rotation, Children's Hospital Colorado, Denver, CO, April 23-May 4, 2012.
- Dr. Erik Strom, Pathologist, University of Oslo, Oslo, Norway, two-week visit to Children's Hospital Colorado, Aurora, CO, April 23-May 4, 2012.
- Dr. Julie Rossner, Pathology resident, University of Kentucky Department of Pathology, one-month elective rotation, Children's Hospital Colorado, Denver, CO, November 2012.
- Dr. Angelica Oviedo, Pediatric Pathologist, Faculty member at Vancouver Children's Hospital, Vancouver, British Columbia, Canada, one-week visit to Children's Hospital Colorado, Aurora, CO, December 4-7, 2012.
- Dr. Julian Vyas, Chair of Pediatric Pulmonology, Auckland, New Zealand, two-day training in pediatric lung pathology, Children's Hospital Colorado, Aurora, CO, January 21 and 28, 2013.
- Dr. Alba Torrent-Vernetta, Pediatric Pulmonologist, Barcelona, Spain. Two-day training in pediatric lung pathology, Children's Hospital Colorado, Aurora, CO, November 4 and 5, 2013.
- Dr. Mariana Alvarez, Pediatric Pathology fellow, Pediatric Garrahan Hospital, Buenos Aires, Argentina. Two-month training in pediatric pathology and pediatric lung disease, Children's Hospital Colorado, Aurora, CO, February –March 2014.

### **CONTINUING MEDICAL EDUCATION: EDUCATIONAL WORKSHOPS AND CURRICULA**

**Megan K. Dishop MD** and Csaba Galambos MD PhD. “Pediatric Lung Biopsy: Diagnostic challenges and update on pathogenesis”, 2-hour CME workshop with handout, Society for Pediatric Pathology annual meeting (3 year cycle).

- Spring 2015 meeting: Boston, MA, March 22, 2015.
- Spring 2016 meeting: pending.
- Spring 2017 meeting: pending.

**Megan K. Dishop MD** and Kyle Kurek MD PhD, co-moderators. Pediatric Pathology Evening Specialty Conference, United States and Canadian Academy of Pathologists (USCAP) annual meetings, Spring 2016, Spring 2017, Spring 2018. Responsible for planning the conference curriculum and coordinating a panel of invited speakers. (CME and MOC Educational Activity).

### **PARTICIPATION IN PROFESSIONAL DEVELOPMENT ACTIVITIES**

- *AAMC Mid-Career Women Faculty Professional Development Seminar*, Association of American Medical Colleges, Austin, Texas, December 3-6, 2011.
- *Time Management Workshop*, Academy of Medical Educators, University of Colorado School of Medicine, January 2013.
- *How to Build a Teacher’s Portfolio Workshop*, Academy of Medical Educators, University of Colorado School of Medicine, January 9, 2013.
- *Leading Change Workshop*, Academy of Medical Educators, University of Colorado School of Medicine, January 29, 2013.
- *Grant Writing 101*, Assistive Technology Partners, University of Colorado School of Medicine, May 2013.
- *Appreciative Inquiry*, Academy of Medical Educators, University of Colorado School of Medicine, September 17, 2013.
- *Powers of Persuasion*, Academy of Medical Educators, University of Colorado School of Medicine, October 8, 2013.
- *Reflective Narrative Writing*, Academy of Medical Educators, University of Colorado School of Medicine, October 17, 2013.
- *DiSC Personality Assessment*, Academy of Medical Educators, University of Colorado School of Medicine, October 31, 2013.
- *Conflict Styles*, Academy of Medical Educators, University of Colorado School of Medicine, November 12, 2013.
- *Disseminating Scholarship*, Academy of Medical Educators, University of Colorado School of Medicine, March 13, 2014.
- *Professionalism*, Academy of Medical Educators, University of Colorado School of Medicine, March 14, 2014.
- *Lab Management University Certification Program*, American Society of Clinical Pathologists, laboratory leadership curriculum, enrolled June 2014, pending completion.
- *Leadership 101 Series: Negotiation*, Academy of Medical Educators, University of Colorado School of Medicine, October 29, 2014.
- *Leadership 101 Series: Conflict Management*, Academy of Medical Educators, University of Colorado School of Medicine, December 2, 2014.
- *Leadership 101 Series: Strategic Planning*, Academy of Medical Educators, University of Colorado

School of Medicine, January 21, 2015.

- *Leadership 101 Series: Financial Stewardship*, Academy of Medical Educators, University of Colorado School of Medicine, February 28, 2015.
- *Executive Presence*, American Association of Physician Leaders webinar, May 6, 2015.
- *Physician in Management* course (Leadership, Quality, Marketing, Negotiation, Communication, Finance), American Association of Physician Leaders Summer Institute, Chicago, IL, June 23-26, 2015.
- *Lean Leadership Basics training*, Children's Hospitals and Clinics of Minnesota, December 2015.

## Grants and Contract Awards

**Modeling Airway Lung Cancer and the Role of Inflammation (Mouse Models of Human Cancer Consortium).** Federal grant funded (NIH/NCI U01), 2004-2005.  
**Co-investigator**, 5% salary support, Histologic and immunohistochemical interpretation of mouse lung pathology.  
PI: Francesco J. DeMayo PhD, Department of Molecular and Cellular Biology, Baylor College of Medicine.  
Funded by grant from National Institutes of Health, National Cancer Institute.  
Grant number: U01 CA105352-01.

**Pulmonary Hypertension Breakthrough Initiative (PHBI) Network, Baylor Transplant Center.** Foundation grant funded, 2006-2009.  
**Co-investigator**, 11% salary support, Baylor Transplant Center, Oversight of explant lung tissue collection according to research protocol.  
PI: George P. Noon MD, Department of Surgery, Baylor College of Medicine.  
Funded by grant from Cardiovascular Medical Research and Education Foundation (CMREF), \$750,000.

## Grant Proposals Submitted

**Developmental Lung Molecular Atlas Program (LungMAP), Human Tissue Core Proposal, Children's Hospital Colorado and University of Colorado School of Medicine** Federal grant proposal submitted June 2013 (NIH/NHLBI U01). Scored; not funded.  
**Principle Investigator**, 40% salary support, Administrative oversight of Colorado Human tissue core.  
Multiple PI: Megan K. Dishop MD and Csaba Galambos MD PhD, Department of Pathology, Children's Hospital Colorado and University of Colorado School of Medicine.  
Response to Request For Application from National Institutes of Health (NIH)/National Heart, Lung, and Blood Institute (NHLBI), U01, \$6.7 million over 5 year period.

## Editorial and Review Activities

Ad hoc manuscript reviewer for the following journals: 2003-present  
*Archives of Pathology and Laboratory Medicine*  
*Histopathology*  
*Virchow's Archive (The European Journal of Pathology)*  
*Human Pathology*  
*Pediatric and Developmental Pathology*  
*Journal of Pediatrics*

*Journal of Neonatal-Perinatal Medicine*  
*Neonatology*  
*Pediatric Blood and Cancer*  
*Chest/Proceedings of the American Thoracic Society*  
*American Journal of Physiology – Lung Cellular and Molecular Physiology*  
*Annals of the American Thoracic Society*  
*Pediatric Allergy, Immunology, and Pulmonology*  
*Pediatric Pulmonology*

- Ad hoc grant reviewer for pleuropulmonary blastoma research: *St. Baldrick's Foundation*. 2011
- Textbook Associate Editor. PT Cagle and CWM Bedrossian, Eds. *Color Atlas and Text of Pulmonary Pathology*, 2<sup>nd</sup> edition. Lippincott, Williams, and Wilkins: Philadelphia. 2008
- Textbook Associate Editor. AM Fraire, ed. *Atlas of Neoplastic Pulmonary Disease*. Springer: New York. 2010
- Textbook Editor. Dishop MK, ed. *Atlas of Pediatric Pathology*. In: Atlas of Anatomic Pathology series. Springer: New York. Proposal accepted 2013. Anticipated publication 2014. 2013-14
- Contributing Editor and Question Reviewer. American College of Chest Physicians (ACCP)-CHEST Self-Education and Evaluation of Knowledge (SEEK) Pediatric Pulmonary Medicine: First edition. 2014 CME educational program. 2013-14
- Editorial board member, *Archives of Pathology and Laboratory Medicine*.  
Pediatric Pathology Section Editor 2009-2011  
Associate Editor 2011-present
- Editorial board member, *Pediatric and Developmental Pathology*. 2009-2015
- Editorial board member, *Pediatric Allergy, Immunology and Pulmonology*.  
Section Editor, Pathology and Laboratory Medicine. 2013-present
- Member, Pediatric Cancer Protocol Review Panel. 2014  
College of American Pathologists, Advisory Panel to the CAP Cancer Committee.

## Publications

### JOURNAL ARTICLES, PEER REVIEWED

1. **MK Dishop**, K Yoneda. Coronary arteritis as a complication of staphylococcal septicemia. *Archives of Pathology and Laboratory Medicine*. 1999. 123: 332-4.
2. JF Pirani, CS Woolums, **MK Dishop**, JR Herman. Primitive neuroectodermal tumor of the adrenal gland. *Journal of Urology*. 2000 Jun. 163(6): 1855-6.
3. **MK Dishop**, S Abraham, WN O'Connor, CC Cotrill. Primary cardiac lipoblastoma. *Pediatric and*

- Developmental Pathology*. 2001 May/Jun. 4(3): 276-80.
4. **MK Dishop**, B Warner, LP Dehner, M Greenwood, JD Geil, J Moscow. Successful treatment of inflammatory myofibroblastic tumor with malignant transformation by surgery and adjuvant chemotherapy. *Journal of Pediatric Hematology-Oncology*. 2003 Feb. 25(2): 153-8.
  5. CD Jahraus, **MK Dishop**, SL Bayliff, C Lee, WH St. Clair. Atypical presentation and progression of glioblastoma multiforme in a 6-year-old girl: multidisciplinary case report. *Journal of Pediatric Hematology-Oncology*. 2003 Mar. 25(3): 243-7.
  6. MN Suell, TM Horton, **MK Dishop**, DH Mahoney, OO Olutoye, KS Leung, BU Mueller. Outcomes for children with gallbladder abnormalities and sickle cell disease. *Journal of Pediatrics* 2004. 145(5): 617-21.
  7. JJ Fullmer, C Langston, **MK Dishop**, LL Fan. Pulmonary capillaritis in children: a review of eight cases with comparison to other alveolar hemorrhage syndromes. *Journal of Pediatrics* 2005 Mar. 146 (3): 376-81.
  8. BE Gonzalez, KG Hulten, **MK Dishop**, L Lamberth, WA Hammerman, EO Mason Jr, SL Kaplan. Pulmonary manifestations in children with invasive community-acquired *Staphylococcus aureus* infection. *Clinical Infectious Diseases* 2005 Sep 1; 41(5): 583-90. Epub 2005 Jul 29.
  9. SE Pacheco, SM Gottschalk, MV Gresik, **MK Dishop**, T Okmaura, TG McCormick. Chronic active Epstein Barr virus infection of natural killer cells presenting as severe skin reaction to mosquito bites. *Journal of Allergy and Clinical Immunology* 2005 Aug; 116(2): 470-2.
  10. J Fullmer, **MK Dishop**, LL Fan. Successful treatment of bronchiolitis obliterans in a bone marrow transplant patient with tumor necrosis factor-alpha blockade. *Pediatrics* 2005 Sep; 116(3): 767-70.
  11. BL Boyanton Jr, LM Noroski, H Reddy, L Noroski, **MK Dishop**, MJ Hicks, J Versalovic, EH Moylett. *Burkholderia gladioli* osteomyelitis in association with chronic granulomatous disease: Report and review. *Pediatr Infect Dis J*. 2005 Sep; 24(9): 837-9.
  12. LA Granville, AC Laga, TC Allen, **MK Dishop**, VL Roggli, A Churg, DS Zander, PT Cagle. Review and update of uncommon primary pleural tumors: a practical approach to diagnosis. *Archives of Pathology and Laboratory Medicine*. 2005 Nov; 129(11): 1428-43.
  13. SA Vasudevan, TA Cumbie, **MK Dishop**, JG Nuchtern. Retroperitoneal hemangioma of infancy. *J Pediatr Surg* 2006 Jan; 41(1): e41-4.
  14. DN Miniati, M Chintagumpala, C Langston, **MK Dishop**, OO Olutoye, JG Nuchtern, DL Cass. Prenatal presentation and outcome of children with pleuropulmonary blastoma. *J Pediatr Surg*. 2006 Jan; 41(1): 66-71.
  15. L Granville, J Hicks, E Popek, **M Dishop**, N Tatevian, D Lopez-Terrada. Visceral clear cell sarcoma of soft tissue with confirmation by EWS-ATF1 fusion detection. *Ultrastructural Pathology*. 2006. 30: 1-8.
  16. KJ Smith, O Elidemir, **MK Dishop**, KW Eldin, N Tatevian, RH Moore. Intravenous injection of pharmaceutical tablets presenting as multiple pulmonary nodules and declining pulmonary function in an adolescent with cystic fibrosis. *Pediatrics*. 2006 Sep; 118(3):e924-8. Epub 2006 Aug 21.
  17. AH Bartlett, **MK Dishop**, CJ Baker. An unusual cause of appendicitis in a child. *Seminars in Pediatric Infectious Disease* 2006 Jul. 17(3): 111-2, 177-9.
  18. C Langston, K Patterson, **MK Dishop**, chILD Pathology Cooperative Group: F Askin, P Baker, P Chou, C Cool, S Coventry, E Cutz, M Davis, G Deutsch, C Galambos, J Pugh, S Wert, F White. A protocol for the handling of tissue obtained by operative lung biopsy: recommendations of the chILD pathology cooperative group. *Pediatric and Developmental Pathology*. 2006 May-Jun. 9(3): 173-80.

*This paper provides recommendations of the Children's Interstitial Lung Disease Pathology Working Group regarding pathologic handling of lung biopsies and tissue triage for special studies. This protocol has been adopted in most major children's hospitals nationwide.*

19. NC Patel, PK Minifee, **MK Dishop**, F Munoz-Rivas. Mycobacterium simiae cervical lymphadenitis. *Pediatric Infectious Disease Journal* 2007 Apr. 26(4): 362-3.
20. R Kellermayer, ST Kim, M Perez, N Tatevian, **M Dishop**, S Abrams, S Kitagawa, MA Gilger. Cytomegalovirus esophagitis preceding the diagnosis of systemic lupus erythematosus. *Endoscopy* 2007 Jul 5. [Epub ahead of print].
21. CM Davis, LM Noroski, **MK Dishop**, DA Sutton, Braverman RM, Paul ME, Rosenblatt HM. Basidiomycetous fungal Inonotus tropicalis sacral osteomyelitis in X-linked chronic granulomatous disease. *Pediatr Infect Dis J* 2007 Jul. 26(7): 655-656.
22. ML Doan, GB Mallory, SL Kaplan, **MK Dishop**, MG Schecter, ED McKenzie, JS Heinle, O Elidemir. Treatment of adenovirus pneumonia with cidofovir in pediatric lung transplant recipients. *J Heart Lung Transplant* 2007 Sep; 26(9): 883-9.
23. GH Deutsch, LR Young, RR Deterding, LL Fan, SD Dell, JA Bean, AS Brody, LM Noguee, BC Trapnell, C Langston; Pathology Cooperative Group, EA Albright, FB Askin, P Baker, PM Chou, CM Cool, SC Coventry, E Cutz, MM Davis, **MK Dishop**, C Galambos, K Patterson, WD Travis, SE Wert, FV White; chILD Research Co-operative. Diffuse lung disease in young children: Application of a novel classification scheme. *Am J Respir Crit Care Med* 2007 Dec 1; 176(11):1120-8. Epub 2007 Sep 20.

*This important paper is the result of a large North American multi-institutional study of lung biopsies in infants and young children (0-2 years of age) with diffuse lung disease. It introduces a novel clinicopathologic classification of pediatric diffuse lung disease and demonstrates the distribution of pathologic entities based on consensus review, their clinical associations, and outcomes associated with specific pediatric interstitial lung disease entities.*

24. ML Doan, RP Guillerman, **MK Dishop**, LM Noguee, C Langston, GB Mallory, MM Sockrider, LL Fan. Clinical, radiologic, and pathologic features of ABCA3 mutations in children. *Thorax* 2008 Apr; 63(4): 366-373.

*This paper represents the largest series of patients with ABCA3 mutations causing abnormal surfactant production and release, and contributed significantly to our understanding of the clinical and pathologic phenotype of these patients, now known to represent the most common form of the genetic disorders of surfactant metabolism.*

25. CV Curry, **MK Dishop**, MJ Hicks, R Naeem, JA Reed, DH Lopez-Terrada. Clear cell sarcoma of soft tissue: diagnostic utility of fluorescence in situ hybridization and reverse transcriptase polymerase chain reaction. *J Cutan Pathol* 2008; 35(4): 411-7.
26. M Harting, N Brunetti-Pierri, CS Chan, J Kirby, **MK Dishop**, G Richard, F Scaglia, AC Yan, ML Levy. Self-healing collodion membrane and mild nonbullous congenital ichthyosiform erythroderma due to two novel mutations in the ALOX12B gene. *Arch Dermatol* 2008; 144(3): 351-6.
27. BS Kancherla, **MK Dishop**, SS Rothenberg, LL Fan. Diffuse pulmonary infiltrates in an immunocompromised patient. *J Allerg Clin Immunol* 2008; 121(2): 540-542.
28. **MK Dishop**, S Kuruvilla. Primary and metastatic lung tumors in the pediatric population: A review and 25 year experience at a large children's hospital. *Arch Pathol Lab Med* 2008 Jul. 132 (7): 1079-1103.

*This case series and review represents the largest series of pediatric lung tumors, and includes a 25-year collection of both primary and metastatic lung tumors in a single institution and consultation experience. It establishes: (1) in surgical resection specimens, metastatic tumors are 10x more common than primary tumors; (2) inflammatory myofibroblastic tumors are the most common benign primary tumor of the lung in children; and (3) the most common primary lung malignancies in children are pleuropulmonary blastoma and carcinoid tumors.*

29. S Yedururi, RP Guillerman, T Chung, RM Braverman, **MK Dishop**, CM Giannoni, R Krishnamurthy. Multimodality imaging of tracheobronchial disorders in children. *Radiographics* 2008 May-Jun;

- 28(3):e29. Epub 2008 Feb 25.
30. Cole P, Kaufman Y, **Dishop M**, Hatfeg DA, Hollier L. Giant congenital folliculosebaceous cystic hamartoma: a case against a pathogenetic relationship with trichofolliculoma. *Am J Dermatopathol* 2008 Oct; 30(5): 500-3.
  31. Suzuki T, Sakagami T, Rubin BK, Noguee LM, Wood RE, Zimmerman SL, Smolarek T, **Dishop MK**, Wert SE, Whitsett JA, Grabowski G, Carey BC, Stevens C, van der Loo JC, Trapnell BC. Familial pulmonary alveolar proteinosis caused by mutations in CSF2RA. *Journal of Experimental Medicine* 2008 Nov 24; 205(12): 2703-10. Epub 2008 Oct 27.

*This paper is one of the first two simultaneously-published reports of novel mutations in the CSF2RA gene encoding the GM-CSF receptor alpha chain as a cause of pulmonary alveolar proteinosis in humans, and expanded the spectrum of hereditary forms of surfactant dysfunction.*

32. Moghaddam SJ, Li H, Cho SN, **Dishop MK**, Wistuba II, Ji L, Kurie JM, Dickey BF, Demayo FJ. Promotion of lung carcinogenesis by COPD-like airway inflammation of the K-ras induced mouse model. *Am J Respir Cell Mol Biol* 2009. 40(4): 443-53. Epub ahead of print 2008 Oct 16.
33. Doan ML, Elidemir O, **Dishop MK**, Zhang H, Smith EO, Black P, Deterding R, Roberts D, Fan LL. Serum KL-6 differentiates neuroendocrine cell hyperplasia of infancy from inborn errors of surfactant metabolism. *Thorax* 2009 Aug; 64(8): 677-81. Epub 2009 Feb 22.
34. Zaidi S, Elidemir O, Heinle JS, McKenzie ED, Schechter MG, Kaplan SL, **Dishop MK**, Kearney DL, Mallory GB. Mycobacterium abscessus in cystic fibrosis lung transplant recipients: report of 2 cases and risk for recurrence. *Transpl Infect Dis* 2009 Jun; 11(3):243-8. Epub 2009 Mar 9.
35. Langston C, **Dishop M**. Diffuse lung disease in infancy. A proposed classification applied to 259 diagnostic biopsies. *Pediatr Dev Pathol* 2009 Mar 26:1. [Epub ahead of print].

*This paper validates the chILD pathology working group classification and provides a large study from a single institution documenting the relative incidence of the various forms of diffuse lung disease in children.*

36. Ahmed N, Salsman VS, Yvon E, Louis CU, Perlaky L, Wels WS, **Dishop MK**, Kleinerman EE, Pule M, Rooney CM, Heslop HE, Gottschalk S. Immunotherapy for osteosarcoma: Genetic modification of T cells overcomes low levels of tumor antigen expression. *Mol Ther* 2009 Oct;17(10):1779-87.
37. Sawal M, Cohen M, Irazuzta JE, Kumar R, Kirton C, Fenton P, Brundler M-A, Evans CA, Wilson JA, Raffeeq P, Azaz A, Rotta AT, Vora A, Vohra A, Abboud P, Mirkin D, Cooper M, **Dishop MK**, Graf JM, Petros A, Klonin H. Fulminant pertussis: A multi-centre study with new insights into the clinicopathologic mechanisms. *Pediatr Pulmonol* 2009 Oct; 44(10): 970-980.
38. **MK Dishop**, AF Bree, MJ Hicks. Pathologic changes of skin and hair in Ankyloblepharon-Ectodermal defects-Cleft lip/palate (AEC) syndrome. *Am J Med Genet A*. 2009 Sep; 149A(9): 1935-41.

*This study is the first to document the pathologic features of skin and hair shafts in a group of children and adults with the very rare syndrome, Ankyloblepharon-Ectodermal defects-Cleft lip/palate (AEC). It is part of a collection of papers reporting the complete multi-disciplinary clinical phenotypes of AEC based on an international family research symposium.*

39. Sutton DA, Wickes BL, Romanelli AM, Rinaldi MG, Thompson EH, Fothergill AW, **Dishop MK**, Elidemir O, Mallory GB, Moonnamakal SP, Adesina AM, Schechter MG. Cerebral aspergillosis caused by *Aspergillus granulosis*. *J Clin Microbiol* 2009 Oct; 47(10): 3386-3390.
40. Shenoy A, Esquibies AE, Dunbar N, **Dishop MK**, Reyes-Mugica M, Langston C, Deladoey J, Abu-Khudir R, Carpenter T, Bazy-Asaad A. A novel presentation of diffuse lung disease caused by congenital hypothyroidism. *J Pediatr* 2009 Oct; 155(4): 593-5.

*This case report is the first to document interstitial lung disease due to pulmonary myxedema in a child with unsuspected congenital hypothyroidism.*

41. Srivaths P, **Dishop MK**, Elidemir O, Eldin K, Browne L, Elenberg E. IgA nephropathy presenting with renal failure and pulmonary hemorrhage. *Pediatr Nephrol* 2010 Mar; 25(3):535-8.
42. Rosen JB, Schechter MG, Heinle JS, McKenzie ED, Morales DL, **Dishop MK**, Danziger-Isakov L, Mallory GB, Elidemir O. Clostridium difficile colitis in children following lung transplantation. *Pediatric Transplant* 2010 Aug; 14(5): 651-6. Epub 2010 Jun 10.
43. Smith KJ, **Dishop MK**, Fan LL, Moonnumakal SP, O'Brian Smith E, Bayindir P, Guillerman RP. Diagnosis of bronchiolitis obliterans with computed tomography in children. *Pediatric Allergy, Immunology, and Pulmonology* 2010. 23(4): 253-258.
44. Haque W, Roberts J, **Dishop MK**, Valdez T. Asthma secondary to tracheal obstruction due to parathyroid cyst. *Int J Pediatr Otolaryng Extra* 2010 Sep; 5(3): 131-133.
45. **Dishop MK**, McKay EM, Kreiger PA, Priest JR, Williams GM, Langston C, Jarzembowski J, Suchi M, Dehner LP, Hill DA. Fetal lung interstitial tumor (FLIT): A proposed newly recognized lung tumor of infancy to be differentiated from cystic pleuropulmonary blastoma and other developmental pulmonary lesions. *Am J Surg Pathol* 2010 Dec; 34(12): 1762-1772.

*This paper is the first description of a new lung tumor in children. Fetal lung interstitial tumor (FLIT) is a rare congenital tumor, distinct from pleuropulmonary blastoma, which morphologically mimics a more immature stage of lung development and in some cases shows interstitial septal cellularity with myofibroblastic differentiation. Outcome is favorable, with no reported recurrences.*

46. Brunetti-Pierrri N, Piccolo P, Morava E, Wevers RA, McGuirk M, Johnson YR, Urban Z, **Dishop MK**, Potocki L. Cutis laxa and fatal pulmonary hypertension: a newly recognized syndrome? *Clin Dysmorphol* 2011 Jan 31 [Epub ahead of print].
47. Sandoval J, **Dishop MK**, Kramer RM, Bealer JF. An unusual colonic duplication associated with foreign body and anemia: a tale of two colons. *J Pediatric Surgery* 2011 Mar. 46(3): 562-565.
48. Lazar DA, Cass DL, **Dishop MK**, Adam K, Olutoye OA, Ayres NA, Cassady CI, Olutoye OO. Fetal lung interstitial tumor: a cause of late gestation fetal hydrops. *J Pediatr Surg* 2011 Jun; 46(6): 1263-6.
49. Buchvald F, Petersen BL, Damgaard K, Deterding R, Langston C, Fan LL, Deutsch GH, **Dishop MK**, Kristensen LA, Nielsen KG. Frequency, treatment, and functional outcome in children with hypersensitivity pneumonitis. *Pediatr Pulmonol* 2011 May 26. [Epub ahead of print]
50. **Dishop MK**. How to prepare lung specimens for sectioning in cryostat. *Biotech Histochem* 2011. 86(3): 207-8.
51. Foulkes WD, Bahubeshi A, Hamel N, Pasini B, Asioli S, Baynam G, Choong CS, Charles A, Frieder RP, **Dishop MK**, Graf N, Ekim M, Bouron-Dal Soglio D, Arseneau J, Young RH, Sabbaghian N, Srivastava A, Tischkowitz MD, Priest JR. Extending the phenotypes associated with DICER1 mutations. *Hum Mutat* 2011 Aug 31. [Epub ahead of print]

*This important paper is a follow-up to the initial description of DICER1 mutations causing hereditary predisposition to pleuropulmonary blastoma in children, and includes a more comprehensive description of association neoplasms in these families.*

52. Popler J, Alimohammadi M, Kampe O, Dalin F, **Dishop MK**, Barker JM, Moriarty-Kelsey M, Soep JB, Deterding RR. Autoimmune polyendocrine syndrome type 1: Utility of KCNRG autoantibodies as a marker of active pulmonary disease and successful treatment with rituximab. *Pediatr Pulmonol* 2011. 47(1):84-87. [Epub ahead of print 2011 Sep 7]
53. May LT, Wang M, Albano E, Garrington T, **Dishop MK**, Macy M. Undifferentiated sarcoma of the liver:

- A single institution experience using a uniform treatment approach. *J Ped Hemat Oncol* 2011 [Epub ahead of print 2011 Dec 31].
54. Vece TJ, Schechter MG, Gatti RA, Tunuguntla R, Garcia CK, Langston C, **Dishop MK**, Moore RH, Fan LL. Rapid and progressive pulmonary fibrosis in 2 families with DNA repair deficiencies of undetermined etiology. *J Pediatr*. 2012; 160(4): 700-702. [Epub ahead of print 2012 Jan 10].
  55. Popler J, Lesnick B, **Dishop MK**, Deterding RR. New coding in the International Classification of Disease, 9<sup>th</sup> Revision, for Children's Interstitial Lung Disease. *Chest* 2012. 142(3): 774-80.
  56. Barham HP, **Dishop MK**, Prager JD. Idiopathic sclerosing inflammation presenting as sinusitis. *Allergy Rhinol* 2012; 3: e101-e104.
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## REVIEW ARTICLES AND MONOGRAPHS

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## LETTERS TO THE EDITOR

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## BOOK REVIEWS

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## TEXTBOOK EDITOR

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## TEXTBOOK CHAPTERS

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## EDUCATIONAL PUBLICATIONS: CONTINUING MEDICAL EDUCATION

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  48. **MK Dishop.** SPP13-04. Low grade neuroendocrine carcinoma (carcinoid tumor) of sacrum. *Society for Pediatric Pathology Slide Survey Program 2013*. April 2013.
  49. **MK Dishop.** SPP13-07. Focal nodular hyperplasia of liver. *Society for Pediatric Pathology Slide Survey Program 2013*. August 2013.
  50. M Rhee-Anagnost, **MK Dishop.** SPP13-11. Fetal Lung Interstitial Tumor. *Society for Pediatric Pathology Slide Survey Program 2013*. April 2013.
  51. **MK Dishop.** Pathology Questions with discussion and references. *American College of Chest Physicians (ACCP) CHEST Self-Education and Evaluation of Knowledge (SEEK) Pediatric Pulmonary Medicine, 1<sup>st</sup> edition*. [Continuing Medical Education (CME) Educational Publication.] Production June-October 2013. Publication date, August 2014.
    - Question 1. Bronchoalveolar lavage cytology.
    - Question 2. Phases of lung development.
    - Question 3. Granulomas.
    - Question 4. Ultrastructure of type 1 and type 2 pneumocytes.
    - Question 5. Primary ciliary dyskinesia.
    - Question 6. Diffuse alveolar damage and acute respiratory distress syndrome.
    - Question 7. Asthma.
    - Question 8. Pulmonary infarction and embolus.
    - Question 9. Cytomegalovirus.
    - Question 10. Cystic fibrosis.
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60. **MK Dishop**. SPP14-13. Undifferentiated embryonal sarcoma of the liver. *Society for Pediatric Pathology Slide Survey Program* 2014. November 2014.
61. **MK Dishop**. SPP14-14. Placental histiocytic intervillitis. *Society for Pediatric Pathology Slide Survey Program* 2014. November 2014.
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### Invited, submitted, and pending manuscripts

1. Liptzin DR, **Dishop MK**, Halbower AC, Abman SH. Pulmonary vascular remodeling in a child with high altitude pulmonary edema. *Pediatric Pulmonology* [Submitted April 2014].
2. Quattelbaum SC, Roby B, **Dishop MK**, Said MS, Chan K. Mammary analogue secretory carcinoma of the salivary gland in a pediatric patient. [Submitted 2015].
3. Zhang L, Miyamoto S, **Dishop MK**. A rare case of giant caseous calcification of the mitral annulus in a pediatric patient: Cardiac pseudotumor and cardiac arrhythmia. *Pediatric and Developmental Pathology*. [Pending submission 2015].
4. Tai C, Jones S, **Dishop MK**, Partrick D. Bronchial atresia is the most common congenital lung malformation. *J Ped Surg* 2013. [Pending submission 2015].
5. Zhelnin K, Hayes K, Moulton S, **Dishop MK**. Clear cell myomelanocytic tumor with t(3;10) translocation. *Pediatric and Developmental Pathology*. [Pending submission 2015].
6. **MK Dishop**. Pediatric Lung Disease section, 32 Encyclopedia entries. *Encyclopedia of Pathology*. Elsevier, 2015. Invited articles (pending submission 2015).
7. **Dishop MK**. Genetic causes of lung disease in childhood: A review of pathology and biology. *Pediatric Allergy, Immunology, and Pulmonology* 2015. [Invited review article; in preparation 2015].
8. Dutmer CM, Asturias EJ, Smith C, **Dishop MK**, Tirosh I, Lee YN, Nortarangelo L, Gelfand EW. Late onset hypomorphic RAG2 deficiency presentation with fatal vaccine-strain VZV infection. [Pending submission 2015]

### Abstracts and Refereed Scientific Presentations

#### ABSTRACTS

1. VL Roth, **MK Dishop**. Evolutionary relationships among the Sciuridae: Analysis of cranial characters in tree, ground, and flying squirrels. *J Morphol* 1994. 220: 388.

2. **MK Dishop.** "Cardiac Lipoblastoma." Midwest Pediatric Pathology Meeting. Maywood, IL. May 1998. Case presentation.
3. **MK Dishop.** "Gastric teratoma." Midwest Pediatric Pathology Meeting. Maywood, IL. July 2000. Case presentation.
4. **MK Dishop.** "Sirenomelia." Midwest Pediatric Pathology Meeting. Maywood, IL. July 2000. Case presentation.
5. **MK Dishop.** "Osteogenesis imperfecta type II." Midwest Pediatric Pathology Society Meeting. Cincinnati, OH. May 2001. Case presentation
6. **MK Dishop.** "Synchronous osteosarcoma and craniopharyngioma." Midwest Pediatric Pathology Society Meeting. Cincinnati, OH. May 2001. Case presentation.
7. JC Schott, **MK Dishop.** Cystic tumor of the AV node (AV node mesothelioma). Irish and American Paediatric Society Annual Meeting. Lexington, KY. September 2001.
8. MW Nam, **MK Dishop**, JL Winters. Twin Reversed Arterial Perfusion (TRAP) Sequence – A case of acephaly and acardia. Irish and American Paediatric Society Annual Meeting. Lexington, KY. September 2001.
9. **MK Dishop**, JL Winters, D Wilson, DG Davis. Congenital glioblastoma multiforme: A report of three cases and a review of the literature. Irish and American Paediatric Society Annual Meeting. Lexington, KY. September 2001.
10. **MK Dishop**, A Pettigrew, GJ Davis. Spontaneous pulmonary rupture in a case of suspected Ehlers-Danlos syndrome type IV. National Association of Medical Examiners Annual Meeting. Richmond, VA. October 2001.
11. **MK Dishop**, JR Anderson, ES Wiener, HE Grier, WM Crist, SJ Qualman. Inflammatory infiltrate in paratesticular rhabdomyosarcoma: A comparison of histologic subtypes and correlation with survival. Society for Pediatric Pathology Annual Meeting. Atlanta, GA. March 3-4, 2001. *Modern Pathology*. 2001 Jan; 14(1): 1P.
12. RF Yorke, **MK Dishop**, AM Sheehan, MF Bhattacharjee. Gonadoblastoma and mixed germ cell tumor in a girl with 46,XX karyotype: a case report and review of the literature. Texas Society of Pathologists Annual Meeting. Houston, TX. January 2003.
13. **MK Dishop**, T Allen, MJ Finegold, MJ Hicks, PT Cagle, C Langston. Primary serosal malignancies in children and adolescents. Texas Society of Pathologists Annual Meeting. Houston, TX. January 2003.
14. MN Suell, TM Horton, **MK Dishop**, DH Mahoney, OO Olutoye, KS Leung, YD Pastore, BU Mueller. Cholecystitis in children with sickle cell disease undergoing cholecystectomy. Pediatric Academic Societies' Annual Meeting. May 2003.
15. **MK Dishop**, C Langston. Proper handling of lung biopsies in children. First annual meeting of Rare Lung Disease Consortium, Pediatric Interstitial Lung Disease Group, Cincinnati, OH, March 2004.
16. **MK Dishop**, C Langston. Pulmonary pathology of autoimmune disease in children and adolescents. First annual meeting of Rare Lung Disease Consortium, Pediatric Interstitial Lung Disease Group, Cincinnati, OH, March 2004.
17. **MK Dishop**, C Langston. Pathology of surfactant protein abnormalities in infancy. 124<sup>th</sup> meeting of Association of Clinical Scientists, Houston, TX, May 12-16, 2004.
18. JT Kayser, K McClain, **MK Dishop**, CM Bollard, S May, WT Shearer, LM Noroski. Epstein Barr virus (EBV)-driven lymphoproliferative disease (LPD) and lymphoma in a girl – Mimicker of X-linked lymphoproliferative disease (XLPD).
19. **MK Dishop**, C Langston. Pulmonary manifestations of rheumatologic disorders in children. Society for Pediatric Pathology, Interim Meeting, Little Rock, AK. October 2004. (Platform presentation).
20. H Li, I Kwak, RI Linoila, **MK Dishop**, MJ Finegold, F DeMayo. Engineering the Mouse Clara Cell for the Generation of Mouse Models for Lung Cancer. *AACR*. January 2005.
21. C Langston, **MK Dishop.** Infant lung biopsy: Clarifying the pathologic spectrum. *Pathology*

- International*. Suppl. 1 2004. 54: S419-21.
22. **MK Dishop**, GH Deutsch, R Deterding, LL Fan, LR Young, C Langston, for the Children's Interstitial Lung Disease (chILD) Pathology and Imaging Cooperative. A Working Histologic Classification of Diffuse Lung Disease in Infancy: Results of the Children's Interstitial Lung Disease Pathology-Imaging Cooperative Group. American Thoracic Society Meeting, San Diego, June 2005. (Poster).
  23. GH Deutsch, **MK Dishop**, C Langston, for the Children's Interstitial Lung Disease (chILD) Pathology and Imaging Cooperative. European Respiratory Society, Copenhagen, Denmark. 2005. (Poster).
  24. S Cope-Yokoyama, **MK Dishop**. Anaplastic large cell lymphoma. Society for Hematopathology Workshop on T-cell Malignancies. MD Anderson Cancer Center, Houston, TX. October 2005. Presented by panel for workshop.
  25. C Vejabhuti, **MK Dishop**, J Hicks, R Naeem, JA Reed, DH Lopez-Terrada. Clear cell sarcoma of soft tissue with cytogenetic and molecular analyses. *J Cutan Pathol* 2006. 33: 68. American Society of Dermatopathology. "Duel in Dermatopathology" Resident Case Presentation, 2<sup>nd</sup> place award. October 2005.
  26. C Langston, GH Deutsch, **MK Dishop**, E Cutz, R Deterding, L Young, for the chILD Cooperative Group. Progress in disorders of infancy: Consensus statement from the Children's Interstitial Lung Disease (chILD) Cooperative Group. Society for Pediatric Pathology/Paediatric Pathology Society Joint Meeting, Tours, France, August 2005. (Platform).
  27. KW Eldin, KJ Smith, RH Moore, GB Mallory, O Elidemir, J Hicks, **MK Dishop**. Pulmonary complications of drug abuse in cystic fibrosis patients: Report of two cases. Society for Pediatric Pathology/Paediatric Pathology Society Meeting, Tours, France, August 2005. (Poster). *Pediatric and Developmental Pathology* 2006. 9(5): 404.
  28. PK Nolan, C Daniels, F Long, **MK Dishop**, P Baker, M Guarin, ED Allen, R Rennenbohm. Severe diffusion capacity reduction in a case of systemic onset juvenile rheumatoid arthritis with mild pulmonary hypertension. (Platform). *Chest* 2005. 128(4): 435S-436S.
  29. H Zhang, ML Doan, **MK Dishop**, GB Mallory, O Elidemir. Beta-aminopropionitrile blocks development of airway fibrosis in mouse model of bronchiolitis obliterans. American Thoracic Society, San Diego, 2006. (Poster).
  30. N Ahmed, C Gerken, S Napier, **M Dishop**, B Savoldo, CM Rooney, HE Heslop, S Gottschalk. Immunotherapy for HER2-positive osteosarcoma and Ewing's sarcoma with HER2-specific T cells. Texas Children's Cancer Center Annual Symposium, Houston, TX, March 2007. (Poster).
  31. DA Hill, **MK Dishop**, EM McKay, C Langston, JR Priest, LP Dehner. Immature interstitial mesenchymal tumor (IIMT): A distinctive new entity of the infant lung. Society for Pediatric Pathology Annual Meeting, San Diego, CA, March 24-25, 2007. (Platform).
  32. **MK Dishop**, FB Askin, C Galambos, FV White, RR Deterding, LR Young, C Langston. Classification of diffuse lung disease in older children and adolescents: A multi-institutional study of the Children's Interstitial Lung Disease (chILD) network. Society for Pediatric Pathology Annual Meeting, San Diego, CA, March 24-25, 2007. (Platform).
  33. RR Deterding, LR Young, **MK Dishop**, L Fan, S Dell, S Sweet, J Hagood, G Redding, R Castile, G Kurland, A Prestidge, R Morton, C Galambos, F White, F Askin, B Trapnell, C Langston. Diffuse lung disease in older children – report of the chILD network review. American Thoracic Society Meeting, San Diego, CA, May 2007. (Poster).
  34. S Kuruvilla, **MK Dishop**. Pediatric lung neoplasia: 25-year review of primary and metastatic tumors of the lung and tracheobronchial tree from a single large children's hospital. Society for Pediatric Pathology interim meeting, Phoenix, AZ, October 2007. (Platform) *Ped Dev Pathol* 2008; 11: 74-75.
  35. C Galambos, **MK Dishop**, C Langston, for the chILD cooperative group. Diffuse lung disease in immunocompromised older children. Society for Pediatric Pathology annual meeting. Denver, CO, March 2008. (Platform)

36. PA Taylor, **MK Dishop**, TE Lotze, GB Mallory, RP Guillerman. Congenital multilobar emphysema, a characteristic lung growth disorder attributable to filamin a gene mutations. 46<sup>th</sup> Annual Meeting of European Society of Paediatric Radiology (ESPR), Istanbul, Turkey, June 3, 2009. (Platform)
37. T Vece, R Gatti, C Garcia, **MK Dishop**, C Langston, MG Schechter, LL Fan. Rapidly progressive familial pulmonary fibrosis in 4 children with an unknown DNA repair defect. American Thoracic Society 2010, New Orleans, LA.
38. C Tai, **MK Dishop**, D Partrick. Bronchial atresia is the most common lung malformation. Pacific Society of Pediatric Surgery, Beijing China, June 2012.
39. O Kupfer, **MK Dishop**, LL Fan. Pulmonary capillaritis in twins. Diffuse Lung Disease in Children Research Conference, LaJolla, CA, June 14-15, 2012. (Poster).
40. E Stacher, R Deterding, LL Fan, **MK Dishop**. Pulmonary lymphoid hyperplasia and lymphoproliferative disorders in children: Clinical association with systemic immunodeficiency and autoimmune disease. Diffuse Lung Disease in Children Research Conference, La Jolla, CA, June 14-15, 2012. (Platform presentation).
41. HP Barham, **MK Dishop**, JD Prager. Idiopathic sclerosing inflammation presenting as sinusitis. American Rhinologic Society Meeting, Washington DC, September 8, 2012. (Poster).
42. De Kock L, Sabbaghian N, Plourde F, Srisvastava A, Bouron-Dal Soglio D, Hamel N, Choi JH, Park SH, Deal CL, **Dishop MK**, Esbenshade A, Jacques T, Perry A, Leichter H, Maeder P, Brundler M-A, Neal J, Zacharin M, Korbonits M, Cole T, Albrecht S, Horvath E, Kovacs K, Priest JR, Foulkes WD. DICER1 mutations in pituitary blastoma. American Society of Human Genetics Meeting, October 2013 (Poster).
43. Liptzin DR, Watson AM, **Dishop MK**, Deterding RR, Schwartz DA. Muc5b expression in surfactant protein C mutations in children. American Thoracic Society, May 2014. Abstract in *Am J Respir Crit Care Med* 2014. 189: A1232. (Poster).
44. Lee-Miller CA, Smith C, Wang M, **Dishop MK**, Hayes K, Asurias E, Cost C. Treatment of an atypical case of hyaline vascular variant multicentric Castleman's disease. American Society for Pediatric Hematology Oncology, May 2014 (Poster).
45. Acker SN, Ross JT, **Dishop MK**, Partrick DA. Strategy to increase diagnostic yield of surgical lung biopsy in pediatric oncology patients. Canadian Association of Paediatric Surgeons Meeting, submitted March 2014.
46. Shows J, Galambos C, Lovell MA, **Dishop MK**, Greffe B, Cho H, Liang X. Therapy-related lymphoblastic neoplasms: Case report and comparison of clinicopathologic features between lymphoid and myeloid neoplasms. Society for Pediatric Pathology/Paediatric Pathology Society Joint Fall meeting, September 5, 2014. (Platform presentation).
47. Galambos C, Sims-Lucas S, Ali N, Gien J, **Dishop MK**, Abman SH. Intrapulmonary vascular shunt pathways in alveolar capillary dysplasia with misalignment of pulmonary veins. Society for Pediatric Pathology/Paediatric Pathology Society Joint Fall Meeting, September 5, 2014. (Platform presentation).
48. Smith C, **Dishop MK**, Asturias E, et al. A toddler presenting with rash, encephalopathy, and hemolytic anemia (Fatal disseminated Oka strain Varicella in a child with SCID variant). Infectious Disease Society of America Meeting, October 2014. (Platform presentation).
49. South G, **Dishop MK**, Hayes K, Eisenman K, Rogers A, Giller R. Single institution experience using allogeneic HSCT to treat pediatric NK/T cell lymphoma. American Society of Pediatric Hematology Oncology, Phoenix, AZ. May 6-8, 2015 (poster).
50. Scott S, Huguelet P, Buyers E, Campbell JB, **Dishop MK**. Identification of cystitis cystica during a work-up for acute prepubertal vaginal bleeding. North American Society of Pediatric and Adolescent Gynecology, 29th annual clinical and research meeting, Orlando, FL. April 16-18, 2015. (Poster)
51. Galambos C, Sims-Lucas S, Ali N, Acker S, **Dishop MK**, Gien J, Abman SH. Intrapulmonary vascular anastomoses in fatal neonatal lung disorders associated with pulmonary hypertension. CoPedia 2015 meeting, Budapest, Hungary. (submitted)

52. Galambos C, Sims-Lucas S, **Dishop MK**, Ivy D, Deterding R. Bronchopulmonary anastomotic pathways (BAP): Possible etiology of isolated idiopathic hypoxemia (IIH) in 11-year-old girl. American Thoracic Society annual meeting, Denver, CO, May 19, 2015. (Poster)
53. Hoppe JE, **Dishop MK**, DeBoer EM. Out of the sandbox and into the lungs: Chasing pulmonary eosinophilia. American Thoracic Society annual meeting, Denver, CO, May 20, 2015. (Poster)
54. Wurth MA, Austin ED, Rosas-Salazar C, Fazili MF, Moore PE, Ellis WD, **Dishop MK**, Adams D, Friedman DL, Young LR. Diffuse alveolar hemorrhage in infancy related to a rare proliferative vascular lesion. American Thoracic Society annual meeting, Denver, CO, May 19, 2015. (Poster)
55. Kalita K, Grenolds A, Liptzin D, Weinman J, **Dishop M**, Abman S. Pulmonary vascular remodeling in a child with high altitude pulmonary edema. American Thoracic Society annual meeting, San Francisco, CA, May 18, 2016. (Poster)

## Invited Lectures, Grand Rounds and Visiting Professorships

### LOCAL AND REGIONAL INVITED LECTURES

1. Invited lecture, "Pulmonary alveolar proteinosis and surfactant protein abnormalities in children." Baylor College of Medicine, Houston, TX. May 2003.
2. Pediatrics Grand Rounds, "Diffuse Lung Disease in Infancy." Texas Children's Hospital, Baylor College of Medicine, September 2004.
3. Pediatrics Grand Rounds, "Hemangiomas and vascular malformations in children." Texas Children's Hospital, Baylor College of Medicine, Houston, TX. July 2007.
4. Invited lecture, "Interstitial lung disease in children – current status and future prospects." Symposium on Pediatric Lung Disease, honoring Dr. Claire Langston, Texas Children's Hospital, Baylor College of Medicine. November 16, 2007.
5. Invited lecture, "Diagnosis of small blue cell tumors of childhood: Role of immunohistochemistry and special studies." Annual meeting of the Colorado Society of Histotechnology. Estes Park, CO. April 23, 2010.
6. Invited lecture, "Lung disease in neonates: A pathologist's perspective." Neonatology Conference, Presbyterian-St. Luke's Hospital, Denver, CO. 2011.
7. Pathology Grand Rounds, "Congenital lung cysts", Department of Pathology, University of Colorado School of Medicine. March 30, 2012.
8. Invited lecture, "Neonatal lung disease", Neonatology Conference, Presbyterian-St. Luke's Hospital, Denver, CO. April 13, 2012.
9. Invited lecture, "Turkish delights: Pediatric Lung Disease and other travel highlights", National Laboratory Week lecture series, Children's Hospital Colorado. May 19, 2014.
10. Pathology Grand Rounds, "Genetic Determinants of Lung Disease in Children: A Review and Update", Department of Pathology, University of Colorado School of Medicine. October 24, 2014.
11. Hospital Grand Rounds, "Pulmonary Surfactant: Normal Biology and Lung Disease in Children", Children's Hospitals and Clinics of Minnesota, Minneapolis-St. Paul, MN. July 9, 2015.

### NATIONAL INVITED LECTURES

1. Visiting Professor, Department of Pathology and Laboratory Medicine, University of Kentucky A.B. Chandler Medical Center, Lexington, KY. April 2003.
  - a. Invited lecture, "Selected Topics in Pediatric Pulmonary Pathology", Advances in Diagnostic Pathology Course.
  - b. Invited slide conference, "Unknown Cases in Pediatric Pathology".
2. Visiting Professor, Department of Pathology and Laboratory Medicine, University of Kentucky A.B. Chandler Medical Center, Lexington, KY. November 2004.
  - a. Invited lecture, "Fetal hydrops", Advances in Diagnostic Pathology Course.
  - b. Invited lecture, "Hirschsprung's Disease: Practical Approach and Differential Diagnosis".
3. Invited presentation, "Surfactant dysfunction disorder due to ABCA3 mutations", Pediatric Pathology Specialty Case Conference, United States and Canadian Academy of Pathology, Atlanta, GA, February 2006. [CME Activity.]
4. Visiting Professor, Department of Pathology and Laboratory Medicine, University of Kentucky A.B. Chandler Medical Center, Lexington, KY. November 2006.
  - a. Invited lecture, "Gastrointestinal biopsy in children: Diarrhea and malabsorption in infancy", Advances in Diagnostic Pathology Course.
  - b. Invited slide conference, Visiting Professor, "Vascular anomalies in children", University of Kentucky A.B. Chandler Medical Center, Lexington, KY. November 2006.

5. Invited lecture, "Pediatric Interstitial Lung Disease", Pulmonary Pathology Society Meeting, Santa Fe, NM, June 2007. [CME Activity.]
6. Invited panelist, "Panel discussion on the role of classification systems in lung disease", Pulmonary Pathology Society Meeting, Santa Fe, NM, June 2007. [CME Activity.]
7. Visiting Professor, Department of Pathology and Laboratory Medicine, University of Kentucky A.B. Chandler Medical Center, Lexington, KY, November 2007.
  - a. Invited slide conference, "Bone tumors in children."
8. Invited presentation, "Congenital pulmonary myofibroblastic tumor". Pulmonary Pathology Specialty Conference, United States and Canadian Academy of Pathology annual meeting, Denver, CO, March 2008. [CME Activity.]
9. Invited lecture, "Pediatric interstitial lung disease", Department of Pathology, Hershey Medical Center, Hershey, Pennsylvania, September 2008.
10. Invited lecture, "Lung biopsy in Older Children and Adolescents", Society for Pediatric Pathology Interim Meeting, Pediatric Lung Symposium, Louisville, KY, October 2008. [CME Activity with questions and handout.]
11. Visiting Professor, Departments of Pathology and Pulmonology, Children's Healthcare of Atlanta, Atlanta, GA. December 2008.
  - a. Invited lecture, "Pediatric lung biopsy: Perspectives from the Children's Interstitial Lung Disease network".
12. Visiting Professor, Department of Pathology, Children's Hospital Boston, Harvard Medical School, Boston, MA. January 2009.
  - a. Invited lecture, "Diffuse lung disease in children".
  - b. Slide conference, "Pediatric lung disease challenge cases".
13. Invited presentation, Mystery case: "Interstitial lung disease due to congenital hypothyroidism", Pulmonary Pathology Society, Annual meeting, Portland, OR, June 2009.
14. Visiting Professor, Department of Pathology, University of Kentucky A.B. Chandler Medical Center, Lexington, KY, November 2010.
  - a. Invited lecture, "Diagnostic challenges in pediatric lung disease".
15. Visiting Professor, Department of Pathology, Children's Hospital of Philadelphia, University of Pennsylvania, Philadelphia, PA, September 2011.
  - a. Invited lecture, "Recent advances in pediatric lung disease", Clinical Lecture Series.
  - b. Invited slide seminar, "Selected topics in pediatric lung disease".
16. Invited panelist, "Lung biopsy 101", Diagnostic Best Practices: Imaging, PFTs, and Pathology. Children's Interstitial and Diffuse Lung Disease (chILD) family conference, LaJolla, CA, June 16, 2012.
17. Invited course faculty, Laboratory Breakout Session: "Pathology and Laboratory Diagnosis of Pediatric Lung Disease", American College of Chest Physicians (ACCP) Pediatric Pulmonary Board Review Course, Scottsdale, AZ, August 2012. [CME Activity]
18. Visiting Professor, Department of Pathology, Vanderbilt University Medical Center, Nashville, TN, November 2012.
  - a. Invited lecture, "Pediatric lung disease", Advances in Anatomic Pathology Lecture Series.
19. Visiting Professor, Department of Pathology and Laboratory Medicine, University of Kentucky A.B. Chandler Medical Center, Lexington, KY, USA, January 17, 2014.
  - a. "Diagnostic pathology of vascular anomalies", Pathology morning conference.
  - b. "Frozen section diagnosis in pediatric pathology", Pathology noon conference
  - c. "Diagnostic pathology of small blue cell tumors in children", Pathology morning conference.
  - d. "Update in diffuse lung disease in children", Advances in Diagnostic Pathology, noon lecture series.
20. Invited case presentation, "Pediatric lung case: Autoimmune disease", Pediatric Pathology Evening Specialty Conference: Pediatric lung disease, United States and Canadian Academy of Pathology, San

- Diego, CA, March 1, 2014. [CME Activity with SAMs questions and handout.]
21. Invited case presentation, "Pediatric lung case: Alveolar capillary dysplasia", Pulmonary Pathology Evening Specialty Conference: Pulmonary vascular lesions, United States and Canadian Academy of Pathology, San Diego, CA, March 5, 2014. [CME Activity with SAMs questions and handout.]
  22. Invited course faculty, Laboratory Breakout Session: "Pathology and Laboratory Diagnosis of Pediatric Lung Disease", American College of Chest Physicians (ACCP) Pediatric Pulmonary Board Review Course, Orlando, FL, August 2014. [CME Activity.]
  23. Invited course faculty, "Pulmonary complications of oncologic therapy and stem cell transplantation in children". American Thoracic Society Post-graduate Course 23: Pulmonary complications of non-pulmonary diseases in children. American Thoracic Society Annual Meeting, Denver, Colorado, May 2015. [CME/SAMs Activity.]
  24. Visiting Professor. Seminars in Pathology series, "Lung Biopsy in Children: Patterns, Pearls, and Pitfalls". Microscope slide seminar for pathology residents, "Pediatric lung cysts and developmental disorders". Nationwide Children's Hospital, Columbus, Ohio, October 6-7, 2015.
  25. Invited lecture. Pathology Grand Rounds, "Pediatric Lung Biopsy: Patterns, Pearls, and Pitfalls". University of Wisconsin Department of Pathology, Milwaukee, WI, February 11, 2016.
  26. Invited lecture. Pediatric Surgery Conference, "Pediatric lung tumors". Children's Hospital Wisconsin, Milwaukee, WI, February 12, 2016.
  27. Invited lecture. Pediatrics Grand Rounds, "Pulmonary surfactant deficiency and dysfunction". Children's Hospital Wisconsin and University of Wisconsin Department of Pathology. Milwaukee, WI, February 12, 2016. [CME/SAMs Activity.]
  28. Invited course faculty, Laboratory Breakout Session: "Laboratory Testing I and II", American College of Chest Physicians (ACCP) Pediatric Pulmonary Board Review Course, Phoenix, AZ, August 2016. [CME Activity.]

#### **INTERNATIONAL INVITED LECTURES**

1. Invited lecture, "New developments in pediatric diffuse lung disease", Pulmonary Pathology Short Course, International Academy of Pathology (IAP) Meeting, Sao Paulo, Brazil, October 2010.
2. Invited lecture, "Why small lungs cause big problems: Diagnostic challenges in pediatric diffuse lung disease", Joint Meeting of the Austrian and Swiss Pathology Societies, Feldkirch, Austria, November 4-6, 2010.
3. Course Tutor and Lecturer, XXXIVth International Paediatric Pathology Association (IPPA) Advanced Course in Paediatric Pathology, La Granja, Spain, September 15-21, 2012.
  - a. "Diffuse Lung Disease in Infants: Part 1. Lung development and growth."
  - b. "Diffuse Lung Disease in Infants: Part 2. Other genetic and acquired lung disease."
  - c. "Diffuse Lung Disease in Older Children."
  - d. "Pediatric Lung Cysts and Malformations."
  - e. Slide Seminar Cases: 1. Alveolar capillary dysplasia. 2. Bronchial atresia. 3. Juvenile idiopathic arthritis and pulmonary alveolar proteinosis. 4. Respiratory syncytial virus infection in an immunosuppressed child.
4. Invited lecture, "Pediatric lung biopsy", Perinatal and Pediatric Pathology Symposium, University of Capetown, Capetown, South Africa, September 30, 2012.
5. Invited case presentation, "Congenital Tumors: Atypical teratoid rhabdoid tumor", Pediatric Pathology Case Seminar, International Academy of Pathology (IAP) meeting, Capetown, South Africa, October 2, 2012.
6. Invited lecture, "Cystic lesions of the pediatric lung: Time for re-classification?", Pulmonary Pathology Short course on Non-neoplastic lung disease, International Academy of Pathology (IAP), Capetown, South Africa, October 2, 2012.

7. Invited lecture, "Morphologic Classification of Paediatric Interstitial Lung Disease", European Pediatric Lung Research Group (EuroPaedPathLungNet), Basel, Switzerland, June 29, 2013.
8. Invited lecture, "Pediatric Interstitial Lung Disease: A perspective for pathologists", Department of Pathology, Gazi University Medical School, Ankara, Turkey, April 1, 2014.
9. Invited lecture, "Primary Lung Tumors in the Pediatric Population: Pathology and Biology", Department of Pathology, Gazi University Medical School, Ankara, Turkey, April 1, 2014.
10. Invited lecture, "Pediatric Lung Tumors: A panel discussion and perspective for pulmonologists", Turkish Thoracic Society, Antalya, Turkey, April 3, 2014.
11. Invited lecture, "Pediatric Interstitial Lung Disease: A panel discussion and perspective for pulmonologists", Turkish Thoracic Society, Antalya, Turkey, April 4, 2014.
12. Invited lecture, "Genetic forms of diffuse lung disease in children", Society for Pediatric Pathology/Paediatric Pathology Society Joint Meeting, Birmingham, England, United Kingdom, September 4-6, 2014.
13. Invited lecture, "Pediatric Lung Cysts", Department of Pathology, The Hospital for Sick Children, Toronto, Ontario, Canada, October 2, 2014.
14. Invited lecture, "Genetic Causes of Pediatric Lung Disease", Pediatric Pathology Symposium, International Academy of Pathology (IAP) meeting, Bangkok, Thailand, October 4-7, 2014.
15. Invited lecture, "Diagnostic Lung Biopsy in Children: Patterns, Pearls, and Pitfalls", Royal Children's Hospital, Melbourne, Australia, November 18, 2015. Participation in one-day multidisciplinary seminar on pediatric interstitial lung disease.
16. Invited lecture, "TTF1/NKX2.1 and Brain-Lung-Thyroid Syndrome", Hot topics in Pediatric Pathology seminar. Joint Meeting of Paediatric Pathology Society and Australia New Zealand Society for Paediatric Pathology, Perth, Australia, November 21, 2015.
17. Course Tutor and Lecturer, International Paediatric Pathology Association (IPPA) Paediatric Pathology Update Course, Margaret River, Australia, November 22-27, 2015.
  - a. Lecture, "Diagnostic Approach to Pediatric Lung Biopsy".
  - b. Lecture, "Update on congenital lung cysts and malformations".
  - c. Slide Seminar Cases: 1. Bronchial mucoepidermoid carcinoma. 2. Pulmonary Langerhans cell histiocytosis. 3. Bronchial atresia.
18. Invited lecture, "Pediatric Lung Disease update". International Academy of Pathology, Cologne, Germany, October 2016 (upcoming).