**Laura M. Warmke, MD**

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**PROFESSIONAL WORK HISTORY**

2020-Present **Assistant Professor of Clinical Pathology & Laboratory Medicine**

Indiana University School of Medicine

**LICENSURE & CERTIFICATIONS**

2018-Present **Board-certified in Anatomic Pathology/Clinical Pathology (AP/CP)**

American Board of Pathology (06/21/2018, Certificate #18-475)

2020-Present **Indiana Medical License**

(01083659A, expires 10/31/2023)

2009-Present **BLS Provider**

American Heart Association (Most Recent Issue Date: 07/24/2020)

**POSTGRADUATE TRAINING**

2019-2020 **Selective Bone & Soft Tissue Pathology Fellow**

The University of Texas MD Anderson Cancer Center | Houston, TX

2018-2019 **Selective Surgical Pathology Fellow**

The University of Texas MD Anderson Cancer Center | Houston, TX

2017-2018 **AP/CP Pathology Chief Resident**

Virginia Commonwealth University Health System | Richmond, VA

2014-2017 **AP/CP Pathology Resident**

Virginia Commonwealth University Health System | Richmond, VA

**EDUCATION**

2010 – 2014 **Doctor of Medicine (M.D.)**

Virginia Commonwealth University School of Medicine | Richmond, VA

2005 – 2009 **Bachelor of Science (B.Sc.) in Chemistry with Distinction, Minor in Studio Art**

University of Virginia | Charlottesville, VA

**PUBLICATIONS**

* **Warmke LM**, Meis J. Sclerosing epitheloid fibrosarcoma. *Surgical Pathology Clinics*, Soft Tissue Pathology Issue. *In Progress*.
* **Warmke LM**, Al-Ibraheemi A, Wang L, Parham D, Rudzinski ER, Davis JL. *FGFR1* gene fusions in a subset of pediatric mesenchymal tumors: expanding the spectrum of tumors sharing histologic overlap with infantile fibrosarcoma and “*NTRK*-rearranged” spindle cell tumors. *Under Review*.
* **Warmke LM**, Wang WL, Baker ML, et al. *TAF15::NR4A3* gene fusion identified a subset of tumors morphologically distinct from conventional and high-grade extraskeletal myxoid chondrosarcoma. *Genes Chromosomes Cancer*. *Under Review*.
* **Warmke LM**, Cheng L, Sperling RM, *et al*. Atypical cartilage in type II germ cell tumors of the mediastinum show significantly different patterns of *IDH1/2* mutations from conventional chondrosarcoma. *Mod Pathol*. 2022 Nov; 35(11): 1636-1643.
* Kumar R, **Warmke LM**, Wang WL. Ewing sarcoma of Hoffa fat pad in the knee: a case report and review of the literature on primary intraarticular sarcomas and Hoffa fat pad masses. Skeletal Radiol. 2022 Dec 9. doi: 10.1007/s00256-022-04239-7. Epub ahead of print.
* Shaheen M, Wurtz LD, Brocken EG, **Warmke LM**. *EWSR1::NFATC2*-rearranged sarcoma in bone— case report and review of the literature. *Human Pathology Reports*. November 2022; 30: 300680.
* Collins K, **Warmke LM**, Chen S, *et al*. Angiomyofibroblastoma and potential mimicking soft tissue tumors that may occasionally present in the retroperitoneum: an approach to the differential diagnosis with report of an unusual index case abutting the kidney. *Adv Anat Pathol*. 2022 May 1; 29(3): 141-153.
* **Warmke L**, N Maloney, CH Leung, *et al*. SATB2 expression in undifferentiated pleomorphic sarcomas of bone. *Am J Clin Pathol*. 2022; 158(2): 235-241.
* **Warmke L**, Meis JM. Sclerosing epithelioid fibrosarcoma: a distinct sarcoma with aggressive features. *Am J Surg Pathol*. 2021; 45(3): 317-328.
* **Warmke L**, Tinkham EG, Ingram DR *et al*. INSM1 expression in angiosarcoma. *Am J Clin Pathol*. 2021; 155(4): 575-580.
* **Warmke L**, Meis JM. *EWSR1-PATZ1*-rearranged sarcoma with rhabdomyoblastic differentiation— case report and review of the literature. *Human Pathology Reports.* 2021; 26: 300552.
* Meis JM, **Warmke L**, Madewell JE, Roland CL, Nguyen AT, Curry JL. Pseudosarcomatous nodules of the skin in the setting of chronic lymphedema: a diagnostic pitfall of malignancy. *In Progress/Under Review*
* Collins K, J Muldoon, **L Warmke**, M Idrees. Differential and ancillary testing in the diagnosis of perinephric myxoid pseudotumor of fat: a case report and review of the literature. *Accepted for Publication in AJSP: Reviews & Reports*
* Collins K, Al-Obaidy K, **Warmke L**, *et al.* Localized amyloidosis of the prostatic urethra mimicking urothelial carcinoma. *Am J Clin Exp Urol*. 2021; 9(5): 403-412.
* Collins K, E Brocken, **L Warmke**, *et al.* Renal replacement lipomatosis presenting in the setting of ureteral stricture with absence of renal calculus disease. *Case Rep Pathol*. 2021 Oct 23; 2021: 3640167.
* Aung PPand**Warmke L**. *Malignant solitary fibrous tumor (inguinal region)*. 2021 PIP-A Performance Improvement Program in Surgical Pathology (CME eligible). *©*2021 College of American Pathologists - CME Self-Assessment Module released March 2021.
* **Warmke L**, Vining D, Ward J, *et al.* Paratesticular clear cell carcinoma of Müllerian origin—A case report. *Human Pathology: Case Reports*. 2020; 21: 200401.
* Riley RS, Khan A, Pai S, **Warmke L**, Winkler MR, Gunning WT. A case of chronic thrombocytopenia in a 17-year-old female. *Laboratory Medicine.* 2019; 50(4): 406-420.
* Sayeed S, Xing D, Jenkins SM, Weisman PS, Buehler D, **Warmke L**, Uram-Tuculescu C, Bakkum-Gamez JN, Howitt BE, Cortese C, Park KJ, Schoolmeester JK. Criteria for Risk Stratification of Vulvar and Vaginal Smooth Muscle Tumors: An Evaluation of 71 Cases Comparing Proposed Classification Systems. *Am J Surg Pathol.* 2018 Jan; 42(1): 84-94.
* Yadav K, Cottrell A, Kimball P, **Warmke L**, Contos M, Gupta G, King A, Kumar D, Levy M. Antibody mediated rejection due to de-novo DSA causing venous thrombosis of pancreas allograft- A case report. *Transpl Immunol.* 2018 Jan 6.
* **Warmke L**, Wiles A, Dumur CI, *et al*. Targeted next-generation sequencing traces the origin of a poorly differentiated malignancy. *AJSP: Reviews & Reports.* 2017; 22: 3. [Cover Article]

**PATHOLOGY OUTLINES**

* **Warmke L**. Ewing sarcoma. PathologyOutlines.com website. https://www.pathologyoutlines.com/topic/boneewing.html
* **Warmke L**, Meis J. Spindle cell/pleomorphic lipoma. PathologyOutlines.com website. https://www.pathologyoutlines.com/topic/softtissueadiposepleomorphicgeneral.html
* **Warmke L**, Meis J. Angiolipoma. PathologyOutlines.com website. https://www.pathologyoutlines.com/topic/softtissueadiposeangiolipoma.html
* **Warmke L**, Meis J. Alveolar soft part sarcoma. PathologyOutlines.com website. <https://www.pathologyoutlines.com/topic/softtissuealveolarsoft.html> \*Topic: Soft tissue- Alveolar soft part sarcoma won Best Author Award 2022\*
* **Warmke L**, Meis J. Cystic/cavernous lymphangioma. PathologyOutlines.com website. https://www.pathologyoutlines.com/topic/softtissuelymphangiomacystic.html
* **Warmke L**, Meis J. Proliferative fasciitis. PathologyOutlines.com website. https://www.pathologyoutlines.com/topic/softtissueproliferativefasciitis.html

**ABSTRACTS**

* Muldoon J, **Warmke L**. Extraskeletal mesenchymal chondrosarcoma mimicking a thrombosed venous aneurysm with femoral vein involvement: a case report. *Presented at the 2022 College of American Pathologists Meeting*.
* Puello Yocum B, **Warmke L**. Matrix-associated sarcoma clinically mimicking a thrombosed (pseudo)aneurysm: an important diagnostic pitfall. *Presented at the 2022 College of American Pathologists Meeting.*
* Toklu A, Collins K, **Warmke L**, Hwang MJ. Anaplastic sarcoma of kidney presenting as a polypoid mass in the renal calyx: a newly recognized entity with *DICER1* mutation. *Presented at the 2022 College of American Pathologists Meeting.*
* Surucu A, **Warmke L**. Lipoblastoma-like tumor of the vulva: a rare benign mesenchymal neoplasm mimicking myxoid liposarcoma. *Presented at the 2022 American Society of Clinical Pathology Annual Meeting.*
* Shaheen M, Nassiri M, **Warmke L**. Focal myositis with CD8+ T-cell predominance: an inflammatory myositis mimicking a soft tissue neoplasm. *Presented at the 2022 American Society of Clinical Pathology Annual Meeting*.
* Collins K, **Warmke L**, Idrees M. Perinephric myxoid pseudotumor of fat: a rare and emerging entity. *Presented at the 2021 College of American Pathologists Meeting*.
* Collins K, Al-Obaidy K, **Warmke L**, *et al.* Localized amyloidosis of the prostatic urethra mimicking urothelial carcinoma. *Presented at the 2021 College of American Pathologists Meeting.*
* Collins K, Brocken E, Phillips CL, **Warmke L**, Hwang M. Renal lipomatosis associated with transplantation: a rare entity and diagnostic challenge. *Presented at the 2021 College of American Pathologists Meeting.*
* **L Warmke**, J Meis. Comparison of Core Biopsy and Resection Specimen Diagnoses of Bone Lesions at a Musculoskeletal Tumor Center. *Presented at the 2019 United States and Canadian Academy of Pathology Annual Meeting in National Harbor, Maryland.*
* S Sayeed, D Xing, P Weisman, D Buehler, **L Warmke**, C Uram-Tuculescu, C Cortese, J. K Schoolmeester. Prognostic Criteria in Vulvar and Vaginal Smooth Muscle Tumors: Evaluation of 68 Cases Comparing Multiple Classification Systems. *Presented at the 2017 United States and Canadian Academy of Pathology Annual Meeting in San Antonio, TX.*
* **L Warmke**, A Wiles, CI Dumur, MJ Contos, SC Smith. Next Generation Sequencing (NGS) Solves Autopsy Mystery of Metastatic Poorly Differentiated Malignancy. *Presented at the 2016 United States and Canadian Academy of Pathology Annual Meeting in Seattle, WA.*
* S Sayeed, **L Warmke**, A Kraft, M Idowu, C Powers. Tumor area measurement as a parameter for determination of specimen adequacy in the selection of EBUS-FNA specimens for Oncogenomic Dx, next generation sequence analysis. *Presented at the 2016 United States and Canadian Academy of Pathology Annual Meeting in Seattle, WA.*
* S Sayeed, **L Warmke**, C Uram-Tuculescu, SC Smith. Undifferentiated Round Cell Sarcoma with CIC Gene Rearrangement: A Case Report. *Presented* *at the 2015 Fall Virginia Society of Pathology Meeting.*
* **L Warmke**, N Vadlamudi, MO Idowu, MJ Contos. What is the Clinical Significance of Intestinal Metaplasia in Stomach Biopsies of Pediatric Patients? *Presented at the 2015 United States and Canadian Academy of Pathology Annual Meeting in Boston, MA.*
* **L Warmke**, M Grimes. Cardiovascular Pathology in Obstructive Sleep Apnea: A Retrospective Autopsy Study. *Presented at the 2013 United States and Canadian Academy of Pathology Annual Meeting in Baltimore, MD.*

**NATIONAL APPOINTMENTS**

2018-2019 Resident Member, Pathology Milestone 2.0 Working Group

2017-2019 Resident Member, ACGME Review Committee for Pathology

2017-2019 Resident Member, ACGME Council of Review Committee Residents (CRCR)

2015 – 2017 College of American Pathologists Resident Forum, Delegate

**INSTITUTIONAL APPOINTMENTS (INDIANA UNIVERSITY)**

2023- Present Instructor, Fundamentals of Health and Disease Course, Indiana University School of Medicine

2021 – 2022 Instructor, Preparing for Professional Practice, Indiana University School of Medicine

2020 – Present Clinical Competency Committee

2020 – Present Surgical Pathology Faculty Search Committee

2020 – Present Methodist Tumor Board, monthly

2020 – Present Orthopedic Tumor Board, weekly

2020 – Present Sarcoma Tumor Board, bi-monthly

**INSTITUTIONAL APPOINTMENTS (VIRGINIA COMMONWEALTH UNIVERSITY)**

2017 Resident Member, Dr. Michael Idowu Promotion Committee

2014 – 2018 Blood Utilization Committee, ad hoc

2014 – 2018 Resident Mentor, VCU Medical Student Pathology Interest Group

2014 – 2018 Resident Applicant Interviewer

2014 – 2018 Instructor, Medical Technologist Continuing Education Series

* Placenta Accreta
* Japanese Blood Group Culture
* Case Report from Cambodia: Ulcerative Colitis & Hemoglobin E

2014- 2018 Instructor, Medical Student MII Pathology Course

* Gross Anatomy Lab
* Foundations of Disease Small Group Sessions
* Renal Course
* Cardiovascular Course
* Respiratory Course

**RESEARCH EXPERIENCE**

2009 **University of Virginia Department of Chemistry**

Investigated the 1zh8 protein from the hyperthermophilic bacteria

*Thermotoga maritima* and its putative function as an oxidoreductase

2008 – 2009 **University of Virginia Center for Addiction Research and Education**

University of Virginia School of Medicine Department of Psychiatry

Screened patients for alcohol, inpatient cocaine, and dual dependence

studies

**EXAMINATIONS**

2012 USMLE Step 1: Passed

2013 USMLE Step 2 CS: Passed

2013 USMLE Step 2 CK: Passed

2015 USMLE Step 3: Passed

2018 AP/CP Board Examination: Passed

**PROFESSIONAL ORGANIZATIONS**

2014 – Present United States and Canadian Academy of Pathology

2014 – Present College of American Pathologists

2014 – Present American Society of Clinical Pathology

2014 – 2018 Virginia Society of Pathology

2018 – 2020 Texas Society of Pathologists

2020 – Present Indiana Association of Pathologists

**PRESENTATIONS**

2023 Resident Lecture, “Practical Soft Tissue Cases: Slide Review,” *January 26, 2023*

2023 Resident Lecture, “Introduction to Soft Tissue Pathology,” *January 17, 2023*

2022 Invited Speaker, Georgetown University Department of Pathology, “Introduction

to Soft Tissue Pathology,” *May 24, 2022*

2022 Invited Speaker, Georgetown University Department of Pathology, “Bone

Tumors: Osteogenic and Chondrogenic Tumors,” *May 17, 2022*

2022 IHC Conference, “Practical Use of Immunohistochemistry in Bone and Soft Tissue

Pathology,” *April 29, 2022*

2022 Indiana University Department of Pathology Grand Rounds, “Sclerosing

epithelioid fibrosarcoma: a distinct sarcoma with aggressive features,” *April 21,*

*2022*

2022 Resident Lecture, “RISE Review: Bone and Soft Tissue Pathology,” *February 15,*

*2022*

2021 Invited Speaker, Chinese American Pathologists Association (CAPA) Lecture,

“Round Cell Sarcomas and Mimics: A Series of Cases,” *May 9, 2021*

2021 Resident Conference: Introduction to Bone and Soft Tissue Pathology

2021 Resident Conference, “Sarcoma Unknowns: Osteogenic Lesions,” *March 4, 2021*

2021 Resident Conference: Soft Tissue Unknowns

2020 MD Anderson Bone Unknown Case Conference

2019 Invited Speaker, Johns Hopkins University, “Diagnostic Utility of Molecular

Pathology in Primary Bone Tumors,” *August 12, 2019*

2019 MD Anderson Sarcoma Section Quality Improvement

2019 MD Anderson Journal Club: Adamantinoma-like Ewing Sarcoma

2019 Citywide Conference: Paratesticular Clear Cell Carcinoma of Mullerian Origin

2019 MD Anderson Gastrointestinal Unknown Case Conference, *February 13, 2019*

2018 VCU Department of Pathology Grand Rounds

2018 Clinical Pathologic Correlation for VCU Department of Internal Medicine

2017 Clinical Pathologic Correlation for VCU Department of Internal Medicine

2017- 2018 Surgical Pathology Unknowns, Biweekly

2017- 2018 Gross Pathology Conference, Monthly

2017 Forensic Pathology: Body Packing & Stuffing

2016- 2018 GI Tumor Board

2010 – 2018 Resident Pathology Conference

* Mature B-Cell Neoplasms
* Ebola
* Hemophilia
* RISE Review: Cancer Syndromes
* RISE Review: Mycology
* Autopsy Case Review
* Surgical Pathology Case Review
* Journal Club
* Cryoglobulinemia

2015 – 2016 Microbiology Rounds

* Postmortem Microbiology
* Microbiology of Cystic Fibrosis
* Streptococcus Anginosus
* Nocardia
* Alliococcus
* Zygomycosis and Fusarium
* Kissing Bug and Chagas Disease

**WORK EXPERIENCE**

2009 – 2010 Physical Therapy Technician, Advanced Orthopedics

2009 – 2010 Chemistry Tutor, J. Sargeant Reynolds Community College

2006 – 2008 Summer Intern, Federal Reserve Bank of Richmond

2002 – 2003 Freelance Artist, kSERO Corporation

2001 Freelance Artist, Edutest.com

**ACTIVITIES**

2018 MD Anderson Quality Improvement Certificate

2015 Osler Pathology Board Review Course

2015 Lab Management University

2015 CITI Biomedical Training

2015 VCU Health Residents as Teachers Level 2 Training, based on *Stanford Faculty Development Framework for Clinical Teaching*

2011 – 2012 VCU School of Medicine Pathology Club Co-President

2009 – 2010 Emergency Medical Technician- Basic

2009 Disaster Preparedness in the West Indies, Study Abroad in St. Kitts and Nevis

2008 – 2009 Madison House Medical Services Volunteer, UVA CARE

2007 – 2009 Madison House Program Director, Pet Pals Program

2005 – 2007 Madison House Pet Pals and Vet Clinic Volunteer

2005 – 2007 Richmond Table Tennis Club

2005 – 2007 UVA Table Tennis Club, Vice President (2007)

2006 Studio Art, Study Abroad in Italy

2005 - 2006 Calculus Tutor, Monticello High School

**HONORS & AWARDS**

2022 PathologyOutlines.com Best Author Award 2022

2019 MD Anderson Cancer Center Oncologic Pathology Staff Award: Recognition of the Best Fellow Lecture

2018 Texas Society of Pathologists Educational Foundation Board Scholarship

2017 CAP Foundation Leadership Development Award

2017 Arthur Purdy Stout Society’s Travel Stipend, one-month of study sponsored by Dr. Saul Suster at the Medical College of Wisconsin

2016 VCU Surgical Pathology Award

2016 VCU Fergus O’M Shiel Teaching Excellence Award

2016 VCU Clinical Pathology Service Award

2015 Highest Resident Average on Rosai Surgical Pathology Quizzes

2015 VCU Resident Research Award

2014 Pathology Honor Society

2014 Carytown Cup, Women’s Singles Table Tennis Champion, Pong RVA

2010 JSR Tutor Award

2009 JSR Tutor Award

2008 Phi Beta Kappa

2008 Raven Society, University of Virginia Honor Society

2008 Madison House Volunteer Award (over 100 hours of service)

2007 University of Virginia Intermediate Honors, Dean’s List Every Semester

2007 Golden Key International Honor Society

2006 Phi Eta Sigma Honor Society

2006 Virginia Open Unrated Table Tennis Singles Champion

2005 University of Virginia Echols Scholarship

2005 High School Valedictorian

2005 Harwood Memorial Scholarship in Science

*References Available Upon Request*