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2019-2020 Department of Pathology Scholarly Activity Report

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**SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PATHOLOGY**

2019-2020

Journal Publications:

Manuscripts published in peer-reviewed journal:

King SA, **Masood S, Youngberg GA, Brown E**, Leicht SS. (2020, June). Generalized granuloma annulare heralding relapse of non-Hodgkin lymphoma. *JAAD Case Rep.* 2020 Apr 24;6(6):534-536. DOI: 10.1016/j.jdcr.2020.03.016. eCollection 2020 Jun. PMID: 32490119. PMCID: PMC7256230.

Manthri S, Singal S, **Youssef B**, Kanishka Chakraborty K. (2019, October). Long-time Response with Ado-trastuzumab Emtansine in a Recurrent Metastatic Breast Cancer. *Cureus.*2019 Oct 30;11(10):e6036. DOI: 10.7759/cureus.6036. PMID: 31824803; PMCID: PMC6886650.

McKenzie SW, **Means RT**. (2019). Blood cultures & culture change. *Am J Med Sci* 2019; 358:171-2

Means RT. (2020). Lymphoma classification: Morphology to molecular. *J Invest Med* 2020;68:319–320.

Means RT. (2020). Iron deficiency and iron deficiency anemia: Implications & impact in pregnancy, fetal development, and early childhood parameters. *Nutrients* 2020;12(2) <https://www.mdpi.com/2072-6643/12/2/447>.

Oad S, Wheeler Y. (2020, January). Benign florid vascular proliferation mimicking vascular neoplasm. In: *StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan. 2020 Jun 29. Bookshelf ID: NBK547734. PMID 31613514.*

Quin Y, Musket A, Kou J, **Preisner J**, Tschida BR, Qin A, Land CA, Staal B, Kang L, Tanner K, Jiang Y, **Schweitzer JB**, Largaespada DA, Xie Q. (2020, June). Neuro-Oncology Advances, Volume 2, Issue 1, January-December 2020, daa067, <https://doi.org/10.1093/noajnl/vdaa067>. Overexpression of HGF/MET axis along with p53 inhibition induces de novo glioma formation in mice.

Sigei A. (2019, April). Co-author Dermal Filler, Case 5 2019 FNA-A: Subcutaneous FNA-Digital slide Program in Fine-Needle Aspiration. 2019 College of American Pathologists. Online CME/CE education activity.

Sigei A, Elshenawy Y, Stastny J. (2019, March). Case report. Lobular breast carcinoma metastasis to skeletal muscle, two case reports diagnosed by ultrasound guided FNA with evaluation of the roles of interventional cytopathology. *Diagn Cytopathol* 47(3):222-225. DOI: 10.1002/dc.24046. Epub 2018 Nov 23. PMID: 30468319

Tawadros F, Manthri S, **Zayko M**. (2019). Chakraborty K. Leptomeningeal involvement by prostate carcinoma an ominous had of a well-known Hydra. *BMJ Case Rep.* 12(9) e230922. DOI: 10.1136/bcr-2019-230922. PMID: 31527212.

Zafar R, Manthri S, **Shurbaji MS**. (2020). Cancer, Renal Leiomyosarcoma. In: *StatPearls. Treasure Island (FL): StatPearls Publishing; 2020.*

Papers, Abstracts or Presentations:

Abbott M, Jiang L, **Youssef B**, Siddiqi A, Nassar A. (2020). How lymphoma diagnosis by fine needle aspiration cytology works in a tertiary care medical center. Abstracts from USCAP 2020: Cytopathology (317-458). Lab Invest 100, 320-461.

Jaishankar M, **Oad S**. (2020, February). Giant hepatic tumor with gentle predisposition. Presented at the Southern Regional Meeting, New Orleans, LA.

King SA, **Masood S, Youngberg GA, Brown E**, Leicht SS. (2019, October). Generalized granuloma annulare preceding relapse of pulmonary non-Hodgkin's lymphoma. Presented at the American College of Physicians Tennessee Chapter 2019 scientific meeting, Franklin, TN.

Manthri S, **Youssef B**, Chakraborty M, Jaishankar D. (2020). The rarest of the rare: A case of primary cardiac osteosarcoma. Presented at the Appalachian Student Research Forum. East Tennessee State University, Johnson City, TN.

Masood S, Patterson E. (2019, October). Nut Midline Carcinoma. An unusual presentation: A case report of a patient presenting with pericardial effusion. Presented at the CAP annual meeting, Orlando, FL. Archives of Pathology & Laboratory Medicine, 2019 September, Vol. 142, No. 9, pp. e2-e226. <https://doi.org/105858/arpa.2019-0901-AB>.

Masood S, Wheeler Y. (2019, October). A Decade of Recurrent Transient Pancytopenia in a Multiple Sclerosis Patient with Superimposed Parvovirus B19 Infection. Presented at the CAP annual meeting, Orlando, FL. Archives of Pathology & Laboratory Medicine: September 2019, Vol. 143, No. 9, pp. e2-e226. <https://doi.org/10.5858/arpa.2019-0901-AB>.

Means RT. (2020, February). NIH SBIR/STTR grant applications, in Preparing a Competitive Grant: What Are Reviewers Looking For? Workshop, Southern Clinical Meetings, New Orleans LA February 13, 2020.

Means RT. (2020, February). Journal of Investigative Medicine Podcast: Updates on lymphoma classification and treatment. <http://feeds.bmj.com/jim/podcasts> Posted February 26, 2020.

Mejbel H, Torres-Cabala C, Milton D, Ivan D, Feldmeyer L, Namikawa K, Nagarajan P, Tetzlaff M, Curry J, Ross M, Hwu W, Prieto V, Aung P. (2020, August). Prognostic significance of acral lentiginous histologic type in T1 melanoma. Modern Pathology. 10.1038/s41379-020-0641-x.

Mejbel H., Vu, K. A. T., & Nagarajan, P. (2020, May). Dermatopathology in endocrine disease. *Diagnostic Histopathology*, 26(5), 224-232. <https://doi.org/10.1016/j.mpdhp.2020.02>.

Mejbel H, Taisuke M, Torres-Cabala A, Milton A, Muto K, Yamazaki N, Hwu WJ, Prieto V, Namikawa K, Aung P. (2020, February). Acral lentiginous melanoma in different geographic areas and ethnic groups: A comparative study at comprehensive cancer centers in US and Japan. Presented at the 109th annual meeting of the United States and Canadian Academy of Pathology, Stowell-Orbison Award Session, Los Angeles, CA.

Manthri S, Sharma P, **Mejbel H**, Singal S, Jaishankar D. (2020, January). Third Line Eribulin for Triple-negative Metastatic Breast Ductal Carcinoma Resulting in Extended Progression-free Survival of 57 Months. Cureus. 12. 10.7759/cureus.6980.

Mejbel H, Arudra S, Pradhan D, Torres-Cabala C, Nagarajan P, Tetzlaff M, Curry J, Ivan D, Duose D, Luthra R, Prieto V, Ballester L, Aung P. (2019, November). Immunohistochemical and Molecular Features of Melanomas Exhibiting Intratumor and Intertumor Histomorphologic Heterogeneity. Cancers. 11. 10.3390/cancers11111714.

Mejbel H. (2019, October). Clear Cell Sarcoma ‘Melanoma of Soft Part’ Harbors EWSR1-FL11 fusion transcript. Presented at the 20th annual duel in Dermatopathology resident competition at the 56th annual meeting of The American Society of Dermatopathology, San Diego, CA.

Mejbel H & Nelson K, Pradhan D, Ivan D, Zaleski M, Nagarajan P, Tetzlaff M, Curry J, Torres-Cabala C, Prieto V, Aung P. (2019, July). Cutaneous Neoplasms Composed of Melanoma and Carcinoma: a Rare but Important Diagnostic Pitfall and Review of the Literature. *Journal of Cutaneous Pathology*. 47. 10.1111/cup.13551.

Norton N, **Youssef B**, Hillman DW, Nassar A, Geiger XJ, Necella BM, Liu H, Ruddy KJ, Polley MC, Ingle JN, Couch FJ, Perez EA, Liu MC, Carter JM, Leon-Ferre RA, Boughy JC, Somers EB, Kalari KR, Vlisscher DW, Goetz MP, Knutson KL. (2020, February). Folate receptor alpha expression associates with improved disease-free survival in triple negative breast cancer patients. *NPJ Breast Cancer* 2020 Feb 4;6:4. DOI: 10.1038/s41523-020-0147-1. PMID: 32047850; PMCID: PMC7000381.

Oad S, Velilla R, Shurbaji MS. (2019, September). Osseous metaplasia in the lamina propria of the urinary bladder underlying a papillary urothelial carcinoma with focal microinvasion. *Arch Pathol Lab Med*, Vol. 143, No. 9 e2-e226. <https://doi.org/10.5858/arpa.2019-0901-AB>.

Oad S, Arze E, Schweitzer JB. (2019, September). Choroid plexus papilloma: Atypical presentation as pure hemorrhage without imaging evidence of a tumor. *Arch Pathol Lab Med.*, Vol, 43, No. 9, pp. e2-e226. <https://doi.org/10.5858/arpa.2019-0901-AB>.

Sharma P, **Youssef B**, Singal S, Jaishankar D. (2020). In situ follicular neoplasia yet another spectrum that extends from normalcy to overt malignancy. Presented at the Appalachian Student Research Forum. East Tennessee State University, Johnson City, TN.

Shurbaji MS. (2020, February). A Practical Approach to the Diagnosis of Rare and Unusual Types of Renal Cell Carcinoma. ETSU Pathology Grand Rounds.

Sigei A. (2019, September). Metastatic breast carcinoma and follicular lymphoma involving duodenum as a collision tumor. Presented at the annual 2019 College of American Pathologists (CAP) meeting.

Singal S, **Mejbel H**, Mansurov A, Chakarabarty K, Jaishankar D. (2019, February). Metastatic basal cell skin cancer mimicking basaloid breast cancer? Presented at the Southern Regional Meeting, New Orleans, LA.

Tawadros F, Singal S, **Zayko M**, Jaishankar D, Chakarabarty K. (2019, February). Leptomeningeal involvement by prostate cancer – strike by an ominous hydra. *J Investig Med*. 67(2), 354-565. <https://jim.bmj.com/content/67/2/354>. Presented at Southern Society for Clinical Investigation, Southern Regional Meeting, New Orleans, LA.

Tawadros F, Singal S, **Zayko M**, Jaishankar D. (2019, April). Mucosal associated lymphoid tissue of the skin, a common entity in a rare location. <https://dc.etsu.edu/asrf/2019/schedule/55/>. Presented at Appalachian Student Research Forum, Johnson City, TN.

Youssef B, Tranesh G, Lewis J, Helmi H, Nassar A. (2019) Incidental metastatic follicular variant of papillary thyroid carcinoma presenting initially as renal metastasis. Presented at the annual 2019 College of American Pathologists (CAP) meeting.

Zainab F, Haroon R, **Oad S**, Elnora S, Jaishankar D. (2020, February). Presented online at the Appalachian Student Research Forum. East Tennessee State University, Johnson City, TN.

Zafar R, Kassaby S, Velilla R, Shurbaji MS. (2019, October). Dystrophic calcification of urinary bladder wall: A rare complication of local therapy for bladder tumors. Presented at the CAP annual meeting, Orlando, FL. Arch Pathol Lab Med. September 2019, Vol. 143, No. 9, pp. e2-e226. <https://doi.org/10.5858/arpa.2019-0901-AB>.

Zafar R, Costello P. (2019, September). Strongyloids Stercoralis Infection Causing Acute Exacerbation of COPD in Immunocompromised Hosts. Archives of Pathology & Laboratory Medicine, vol. 143, no. 9, pp. E2-e226. <https://doi.org/10.5858/arpa.2019-0901-AB>.

Zayko M, Rollins S. (2019, September). Recurrent benign male breast cysts in the absence of gynecomastia: A rare case report. <https://pmg.joynadmin.org/documents/1005/5ce6b5d668ed3fae0195e2fd.pdf>. Presented at ASCP19, Phoenix AZ.

Zayko M, Wheeler Y. (2019, September). Osseous metaplasia: An unusual and poorly understood finding in gastric polyps. <https://pmg.joynaadmin.org/documents/1005/5ce6b5d668ed3fae0195e2f3.pdf>. Presented at ASCP19, Phoenix, AZ.

Case Reviews:

Sigei A. (2019, September). Cosmetic dermal fillers, 2 case reports diagnosed via ultrasound-guided NA. Presented at the annual 2019 College of American Pathologists (CAP) meeting.

Books or Chapters:

Means RT. (2019). Approach to anemia, in Goldman L, Shafer AI (eds): Goldman-Cecil Medicine (26th ed) Elsevier Saunders. 1028-35

Fairfield KM, **Means RT.** (2019, September). Causes and pathophysiology of vitamin B12 and folate deficiencies. UpToDate 9/19/19

Means RT, Fairfield KM. (2019, September). Clinical manifestations and diagnosis of vitamin B12 and folate deficiency. UpToDate 9/27/19

Means RT, Fairfield KM. (2019, September). Treatment of vitamin B12 and folate deficiencies. UpToDate 9/27/19

Means RT. (2019, October). Acquired pure red cell aplasia in the adult. UpToDate. 10/7/2019

Means RT. (2019, November). Hematologic complications of alcohol use. UpToDate 11/14/19

Submitted:

Abbott M, Jian L, **Youssef B**, Siddiqi A, Nassar A. (2020, Submitted). Reliability of lymphoma diagnosis using combined cytologic preparations and core needle biopsy: Single-center analysis. Submitted April 2020 to American Association for the Advancement of Science.

Block MS, Dietz AM, Bustafson MP, KalliK, Erskine C, **Youssef B**, Raja GV, Allred, Pavelk KD, Strausbauch MA, Lin Y, Solseth ML, Deeds MC, Knutson KL, Cannon MJ. (2020, Submitted). Induction of tumor antigen-specific Th7 ad humoral immunity in ovarian cancer patients with antigen-pulsed dendritic cell vaccination. Submitted April 2020 to American Association for the Advancement of Science.

Masood S, Wheeler Y. (Submitted). Primary lung intravascular Large B cell lymphoma clinically mimicking sarcoidosis: A rare case report and review of literature. Submitted in Respiratory Medicine Case Reports.

Oad S, Soike T. (2020, Submitted). Multiple spontaneous squamous cell carcinomas in a patient with Lynch syndrome. Submitted for CAP 2020.

Oad S, Asberry D, Shurbaji MS. (2020, Submitted). Incidental diagnosis of metastatic prostate adenocarcinoma in perirectal lymph nodes resected as part of the surgical treatment of rectal adenocarcinoma as the first manifestation of prostate adenocarcinoma in a patient. Submitted to CAP20.

Zayko, M, Patterson E, Cook E. (2020, Submitted). An unusual cause of sudden intraoperative death: Extensive tumor microemboli from a radiographically misdiagnosed hepatocellular carcinoma variant. Submitted to NAME 2020.

Youssef B, Siddiqi A, Mojica R, Bowman AW, Nassar A. (2020, Submitted). A metastatic thyroid carcinoma to the kidneys presenting initially as bilateral renal masses. A rare case report and a literature review. Submitted March 2020 to Case reports in Pathology.

Youssef B, Zayko M, Mohamed R, **Asberry D.** (2020, Submitted). A primary malignant gastrointestinal neuroectodermal tumor in the stomach. A case report and review of literature. Submitted to CAP20.

Youssef B & Wheeler Y. (2020, Submitted). Primary nodal lymphangioma: A rare case report and literature review. Submitted to 2020 ASCP meeting.

Youssef B, Zayko M, Gertsen E. (2020, Submitted). Isolated right ventricular non-compaction as a cause of death in Cornelia de Lange Syndrome. Submitted to 2020 ASCP meeting.

Youssef B, Zayko M. Mohamed R, **Asberry D.** (2020, Submitted). A primary malignant gastrointestinal neuroectodermal tumor in the stomach: A case report and review of literature. Submitted to CAP20.

Youssef B, King JC, **Wheeler Y.** (2020, Submitted). Plasmacytoid urothelial carcinoma in cytology: A diagnostic challenge. Submitted to CAP20.

Editorial Reviews

Peer review role: served as reviewer or editorial board member for a peer-reviewed journal during the previous academic year.

Schweitzer, J. (2000–present). Editorial Board of the Journal of Neuropathology and Experimental Neurology.

Grant Peer Review

- NIH Special Emphasis Panel - 2020/01 NIA-C 2019
- NIH Special Emphasis Panel - 2020/08 ZHL1 CCT-O (S1) 2

Textbook Editorial Roles:

- Means ET, Rogers GM, Glader B, Arber DA, Appelbaum FR, Dispenzieri A, Fehniger TA, Leonard JP, Michaelis L. Wintrobe's Clinical Hematology 15th ed (in preparation; editor-in-chief)

Journal Editorial Roles:

- Journal of Investigative Medicine – Assoc. Editor 1998 – 2015; Deputy Editor 2015-19; Associate Editor for Hematology/Oncology 2019 -
- International Journal of Hematology - Member, International Editorial Board 1999 –
- American Journal of the Medical Sciences - Member, Editorial Board 2006 –
- Blood Research (formerly Korean J. Hematology.) - Member, Editorial Board 2010 –

Other Editorial Roles:

- UpToDate – Section Co-Editor, Red Blood Cell Disorders 2020 –

Peer review for Journals (7/19-6/30).

- Acta Haematologica & Advances in Geriatric Medicine & Research

Means R. -

Internal Medicine Resident Academic Half-Day: Thrombocytopenia September 10, 2019

Internal Medicine Resident Academic Half-Day: Polycythemia/Erythrocytosis September 10, 2019

Pathology Grand Rounds: Von Willebrand Disease October 24, 2019

Medical Education Journal Club (Faculty Development Series), presenter; December 12, 2019