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Education and Training

Education

09/2002-11/2009 MD, Shahrekord University of Medical Sciences, Shahrekord, Iran

PostDoctoral Training

09/2014-09/2018 Residency, Anatomical and Clinical pathology, University of Florida, Gainesville, FL

09/2018-07/2019 Fellowship, Surgical Pathology, University of Florida, Gainesville, FL

07/2019-07/2020 Postdoctoral Research Fellow, GI Pathology, Department of Pathology, The Johns Hopkins Hospital, Baltimore, MD

07/2019-present Fellowship, Gastrointestinal and Liver Pathology, The Johns Hopkins Hospital, Baltimore, MD

Certification and Licensure

Certification

2018-present Anatomical and Clinical Pathology (American Board of Pathology)

2013-present Educational Commission for Foreign Medical Graduates

2002-present Persian Calligraphy Certificate

Licensure

2019-present State of Maryland, Medical license

2017-2018 State of Pennsylvania, Medical license

2014-2019 State of Florida, Training Medical license

Academic, Administrative, Clinical and Research Appointments

Academic Appointments

09/2018-07/2019 Fellow Associate, Department of Pathology, University of Florida, Gainesville, FL

07/2020-Present Faculty Assistant, Department of Pathology, The Johns Hopkins Hospital, Baltimore, MD

Research Appointments

09/2010-03/2012 Research Assistant, Memorial University of Newfoundland, St. John's, NL, Canada

03/2012-09/2014 Research Assistant, University of Toronto, Mount Sinai Hospital, Toronto, ON, Canada

Gaps

11/2009-09/2010 In the process of immigration from Iran to Canada.

Clinical Interests

- Mesenchymal tumors of the gastrointestinal tract
- Gastric polyps
- Pseudotumors of the liver

Research Interests

- Pancreatic cancer tumor microenvironment (TiME)
- Mesenchymal tumors of the gastrointestinal tract

Grants

Past Grants

Immunohistochemical analysis of CDX2, Villin and SAT-B2 in invasive breast carcinoma

University of Florida, Gainesville, FL

Co-I (Principle Investigator: Ruth J Asirvatham) 12/2016-12/2017, \$2500

The utility of novel diagnostic IHC markers in distinguishing primary mucinous adenocarcinoma of the lung from metastases of colorectal and appendiceal origins.

University of Florida, Gainesville, FL

Co-I (Principle Investigator: Liping Li) 12/2016-12/2017, \$2500

Honors and Awards

2017 Best presentation award, Department of pathology, immunology and laboratory medicine, University of Florida, the 35th annual Resident Research Symposium

Memberships in Professional Societies

2014-2019 Member, Florida Society of Pathologists (FSP)

2014-2019 Member, American Society of Clinical Pathologists (ASCP)

2014-present Member, United States and Canadian Academy of Pathologists (USCAP)

2014-present Member, College of American pathologists (CAP)

Editorial Positions, Boards, and Peer-Review Service

Journal Reviewer

2012-present Journal of Nephropathology

2015-present Pathology and Laboratory Medicine, Openventio

2017-present Virchows Archive

Teaching Activity

Institutional

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| 11/2014-07/2018 | Medical student laboratory sessions, University of Florida (4 hrs/year) |
| 09/2014 | Resident lecture, Detection of the BRAF V600E Mutation in Colon Carcinoma Critical Evaluation of the Immunohistochemical Approach: Department of Pathology and laboratory medicine, University of Florida. |
| 12/2014 | Resident lecture, Multiplex GI panels, comparison of commercially available panels: Department of pathology and laboratory medicine, University of Florida. |
| 12/2014 | Resident lecture, Tumor budding in colorectal cancer—ready for diagnostic practice? Department of pathology and laboratory medicine, University of Florida. |
| 01/2015 | Resident lecture, Factor VIII inhibitors: Department of pathology and laboratory medicine, University of Florida. |
| 11/2015 | Resident lecture, Rectal cancer grossing guidelines: Canada and beyond: Department of pathology and laboratory medicine, University of Florida. |
| 05/2016 | Resident lecture, Scurvy, difficult to diagnose, easy to treat: Department of pathology and laboratory medicine, University of Florida. |
| 06/2016 | Resident lecture, Laser microdissection and mass spectrometric-based proteomic analysis of sclerotic bodies “elastocollagenous balls” in nephrogenic systemic fibrosis: The 34th annual resident research day, Department of pathology and laboratory medicine, University of Florida. |
| 06/2017 | Resident lecture, Refractoriness to platelets transfusion: Blood bank, Department of pathology and laboratory medicine, University of Florida. |
| 06/2017 | Resident lecture, Tumor budding Assessed by the International Tumor Budding Consensus Conference (ITBCC) Recommendations is a Strong Predictor of Disease-Free Survival in Stage II Colorectal Cancer: The 35 th annual Resident Research Symposium. Department of pathology and laboratory medicine, University of Florida. |
| 06/2017 | Resident lecture, Thrombotic thrombocytopenic purpura and differential diagnosis: Department of pathology and laboratory medicine, University of Florida. |
| 10/2017 | Resident lecture, Drug induced liver injury (DILI), a pattern-based approach: Department of pathology and laboratory medicine, University of Florida. |
| 11/2017 | Resident lecture, Hemophagocytic lymphohistiocytosis (HLH): Department of pathology and laboratory medicine, University of Florida. |

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| 04/2018 | Resident lecture, Mycobacteria: Classification and Identification: Department of pathology and laboratory medicine, University of Florida. |
| 04/2018 | Resident lecture, Gram negative lactose fermenters: Department of pathology and laboratory medicine, University of Florida. |
| 04/2018 | Resident lecture, Gram negative lactose non-fermenters: Department of pathology and laboratory medicine, University of Florida. |
| 05/2018 | Resident lecture, Lymphocytic proctocolitis: a pattern-based approach and case discussion: Department of pathology and laboratory medicine, University of Florida. |
| 11/2019-Present | Medical student laboratory sessions, The Johns Hopkins University (4 hrs/year). |
| 03/2020 | Resident lecture, Post-inflammatory mucosal hyperplasia and appendiceal diverticula simulate features of low-grade appendiceal mucinous neoplasms: Department of pathology and laboratory medicine, Johns Hopkins Hospital |
| 04/2020 | Resident lecture, Evolution of the immune landscape during progression of pancreatic intraductal papillary mucinous neoplasms to invasive cancer, Johns Hopkins Hospital |

Clinical Track Scholarly Contribution

Clinician-Individualized Portfolio: an opportunity for the faculty member and chair/section/division chief to develop a pathway combining features of the multiple pathways noted above with clearly articulated goals and metrics.

As a House Officer (Fellow) being appointed to Clinical Assistant Professor, I am still establishing a clinical pathway but am currently focusing on the Clinician-Individualized Pathway as I start working toward my career goals.

Committee and Administrative Services

2020 Peer-reviewer, The Johns Hopkins Hospital, Gastrointestinal and Liver CME course

Visiting Professorships and Extramural Invited Presentations

Other

1. Some uncommon benign neoplasms & pseudotumors of the liver: Department of Pathology, University of North Carolina, Chapel Hill, NC, December, 2019
2. Some uncommon benign neoplasms & pseudotumors of the liver: Department of pathology, University of Michigan, Ann Arbor, MI, November 2019

Bibliography

Peer-Reviewed Journals and Publications

1. Nasri H, Mortazavi M, Ghorbani A, Shahbazian H, Kheiri S, Baradaran A, Emami-Naieni A, Saffari M, Mardani S, Momeni A, Madihi Y, Baradaran-Ghahfarokhi M, Rafien-Kopaie M, Hedayati P, Baradaran S, Ardalani M, Sajjadih S, **Assarzaghan N**, Soleimani SMA, Tamadon MR: Oxford-MEST classification in

- IgA nephropathy patients: A report from Iran. *Journal Nephropathol* 1: 31-42, 2012. PM24475384
2. Karami M, Mahmoodieh M, Assarzadegan M, Karami, **Assarzadegan N**, Mansoori M, Rabiei E: New diagnostic Criteria for Inguinal Hernia Based on Ultrasound Examination. *Medical Journal of Isfahan University* 30: 2537-2544, 2013.
 3. Dawson H, Kirsch R, Driman D, Messenger D, **Assarzadegan N**, Riddell R: Optimizing the detection of venous invasion in colorectal cancer: The Ontario, Canada, experience and beyond. *Frontier Oncology* 4: 354, 2014. PM25601902
 4. **Assarzadegan N**, Solano FJ. Squamous metaplasia in Colorectal polyps. *Pathol Lab Med Open J* 1(1): 1-2, 2015.
 5. Beal SG, **Assarzadegan N**, Rand KH: Sample-to-result molecular Infectious disease assays: Clinical implications, limitations and potential. *Expert rev mol diagn* 16: 323-341, 2015. PM26689497
 6. Jhaveri K, Hosseini- Nik H, Thippavong S, **Assarzadegan N**, Menezes R, Kennedy E, Kirsch R: MRI Detection of Extramural Venous Invasion in Rectal Cancer: Correlation with Histopathology Utilizing Elastin Stain. *American Journal of Roentgenology* 206(4): 747-755, 2016. PM26933769
 7. Forse C, Rahimi M, Diamandis EP, **Assarzadegan N**, Dawson H, Grin A, Kennedy E, O'Connor B, Messenger D, Riddell RH, Kirsch R, Karagiannis GS: HTRA3 Stromal Expression is correlated with Tumor Budding in Stage II Colorectal Cancer. *Exp Mol Pathol* 103(1): 94-100, 2017. PM28716573
 8. Kirsch R, **Assarzadegan N**, Messenger D, Juda A, Riddell RH, Pollett A, Streutker C, Divaris D, Newell K, Price R, Smith S, Al-Haddad S, Parfitt J, Driman D: The Impact of Knowledge Transfer on the Detection of Venous Invasion in Colorectal Cancer. *Human Pathol* 67: 45-53, 2017. PM28716438
 9. **Assarzadegan N***, Viktor K*, Dawson H, Mitrovic B, Grin A, Messenger DE, KirschR, Riddell RH, Lugli A, Zlobec I (**equal contribution**): Cytokeratin-based assessment of tumour budding in colorectal cancer: analysis in stage II patients and prospective diagnostic experience. *J Pathol Clin Res* 3(3): 171-178, 2017. PM28770101.
 10. **Assarzadegan N**, Oshima K: Vascular lesions of the liver. *Diagnostic histopathol* 23(12): 553-558, 2017.
 11. **Assarzadegan N**, Montgomery E, Kherad Pezhouh M: Colitides: Diagnostic Challenges and a pattern based approach to differential diagnosis. *Diagnostic histopathol* 23(12): 536-543, 2017.
 12. **Assarzadegan N**, Montgomery E: Gastric polyps. *Diagnostic histopathol* 23(12): 521-529, 2017.
 13. **Assarzadegan N**, Montgomery E, Anders R: Immune checkpoint inhibitor colitis: The flip side of the wonder drugs. *Virchows Archiv* 472(1): 125-133, 2018. PM29143108
 14. **Assarzadegan N**, Gonzalo DH, Leon ME, Asirvatham JR: Immunohistochemical Expression of CDX2 and SATB2 in Primary Breast Carcinomas. *Appl Immunohistochem Mol Morphol* 28(6): e53, 2019. PM30741745
 15. Alpert L, Al-Sabti R, Graham RP, Pai RK, Gonzalez RS, Zhang X, Smith V, Wang HL, Westbrook L, Goldblum JR, Bakhshwin A, Shetty S, Klimstra DS, Shia J, Askan G, Robert ME, Thomas C, Frankel WL, Alsomali M, Hagen C, Mostafa

- ME, Feely MM, **Assarzadegan N**, Misdraji J, Shih AR, Agostini-Vulaj D, Meis JM, Tang S, Chatterjee D, Kang LI, Hart J, Lee SM, Smith T, Yantiss RK, Hissong EM, Gao ZH, Wu J, Resnick MB, Wu EY, Pai RK, Zhao L, Doyle LA, Chopra S, Panarelli NC, Hu S, Longacre TA, Raghavan SS, Lauwers GY, Ghayouri M, Cooper HS, Nagarathinam R, Bellizzi AM, Kakar S, Hosseini M, Rong J, Greenson JK, Lamps LW, Dong Z, Bronner MP: Smooth muscle tumors of the gastrointestinal tract: an analysis of prognostic features in 407 cases. *Mod Pathol* 33(7): 1410-1419, 2020 PM32051556
16. **Assarzadegan N**, Montgomery E: What is New in 2019 World Health Organization (WHO) Classification of Tumors of the Digestive System: Review of Selected Updates on Neuroendocrine Neoplasms, Appendiceal Tumors, and Molecular Testing. *Arch Pathol Lab Med* Online Ahead of Print, 2020. PM32233993
 17. **Assarzadegan N**, Hutchings D, Salimian K, Windon A, Voltaggio L, Montgomery E: Clinicopathologic Study of Blue nevi of the Gastrointestinal (GI) Tract: First Case Series. *Journal of Clinical Pathology* Online Ahead of Print, 2020. PM32631943
 18. Hutchings D, Windon A, **Assarzadegan N**, Salimian K, Voltaggio L, Montgomery E: Perianal Paget's Disease as Spread from Non-Invasive Colorectal Adenomas. *Histopathol* Online Ahead of Print, 2020. PM32705713
 19. Waters K, Salimian K, **Assarzadegan N**, Hutchings D, Makhoul E, Windon A, Wong M, Voltaggio L, Montgomery E: Cell Polarity (the "Four Lines") Distinguishes Gastric Dysplasia from Epithelial Changes in Reactive Gastropathy. *Histopathol* Online Ahead of Print, 2020. PM32841414.
 20. Argani P, Palsgrove DN, Anders RA, Smith SC, Saoud C, Kwon R, Voltaggio L, **Assarzadegan N**, Oshima K, Rooper L, Matoso A, Zhang L, Cantarel BL, Gagan J, Antonescu CR. A Novel NIPBL-NACC1 Gene Fusion is Characteristic of the Cholangioblastic Variant of Intrahepatic Cholangiocarcinoma. *Am J Surg Pathol*. 2021 May 13. PM33999553.
 21. Mitrovic B, Handley K, **Assarzadegan N**, Chang H, Dawson H, Grin A, Hutchins G, Magill , Quirke P, Riddell R, Gray R, Kirsch R. Prognostic and Predictive Value of Tumor Budding in Colorectal Cancer, *Clinical Colorectal Cancer*, 2021.
 22. **Assarzadegan N**, Thompson E, Salimian K, Gaida MM, Brosens LAA, Wood L, Ali SZ, Hruban RH. Pathology of intraductal papillary mucinous neoplasms. *Langenbecks Arch Surg*. 2021 May 28. PM34047827.

Book Chapters

1. **Assarzadegan N**, Kressak JL: Precursors and early lesions of hepatocellular carcinoma: Liver Cell Dysplasia and the Development of HCC. Precision Molecular Pathology of Liver Cancer, Chen L (Ed.), New York City, NY, 2018. 1st, 195-211.
2. **Assarzadegan N**, David H Gonzalo, Ruth J Asirvatham: Drug induced liver injury (DILI). 2019 IN PRESS
3. **Assarzadegan N**, Kheradpezhoh M: Histology of Gastroesophageal Reflux Disease and Barrett's Oesophagus: Non-neoplastic gastrointestinal Tract: A

Practical Guide to Biopsy Diagnosis, Rogers M. Feakins (Ed.), Cambridge, England, 2020. 1st, 116-130.

Electronic publication:

1. **Assarzadegan N:** Liver and intrahepatic bile ducts – Tumor: High grade dysplastic nodules. *Pathologyoutline chapter:2016*
2. **Assarzadegan N:** Liver and intrahepatic bile ducts – Tumor: Low grade dysplastic nodules. *Pathologyoutline chapter:2016*
3. **Assarzadegan N:** Liver and intrahepatic bile ducts – Tumor: Large regenerative nodules. *Pathologyoutline chapter:2016*
4. **Assarzadegan N:** Liver and intrahepatic bile ducts – Tumor: Macroregenerative nodules. *Pathologyoutline chapters:2016*
5. **Assarzadegan N:** Stomach - Gastric polyps: Fundic gland polyps. *Pathologyoutline chapters: 2017*
6. **Assarzadegan N:** Stomach - Gastric polyps: Inflammatory fibroid polyp. *Pathologyoutline chapters: 2017*
7. **Assarzadegan N:** University of Florida unknowns, case of the week, Week 13: 2018
8. **Assarzadegan N:** University of Florida unknowns, case of the week, Week 21: 2018
9. **Assarzadegan N:** University of Florida unknowns, case of the week, Week 22: 2018
10. **Assarzadegan N:** University of Florida unknowns, case of the week, Week 23: 2018

Abstracts

1. **Assarzadegan N**, Asghari SH and Parvin N: Oral Health Status in Institutionalized schizophrenic Patients in Shahrekord, Iran: A Cross-sectional Study, PriFor Conference, December 2011, St Johns, NL, Canada.
2. **Assarzadegan N**, Asghari SH, Parvin N: The Effects of Lavandula Angustifolia Mill Infusion on Depression in patients using Citalopram: A Randomized clinical trial study, PriFor Conference, December 2011, St Johns, NL, Canada.
3. Li-Chang H, **Assarzadegan N**, Messenger D, Grin A, Howlett C, Kirsch R: Correlation of peripheral blood lymphocyte counts with outcome and histopathologic features of lymphocytic inflammation in patients with stage II colorectal carcinoma, 50th ASCO GI symposium, January 2014, San Francisco, CA.
4. Kirsch R, Juda A, **Assarzadegan N**, Messenger D, Riddell R, PollettA, Streutker C, Al Haddad S, Smith S, Newell K, Divaris D, Parfitt J, Driman D: The Impact of Knowledge Transfer Strategies on the Detection of Venous Invasion in Colorectal Cancer, The 103rd USCAP annual meeting, March 2014, San Diego, CA.
5. Li-Chang H, **Assarzadegan N**, Messenger D, Grin A, Hafezi-Bakhtiari S, Howlett C, El-Zimaity H, Kirsch R: Tumor Budding in Colorectal Cancer Is Associated With a decreased Local Tumor and Regional Lymph Node Immunologic Response, The 103rd USCAP annual meeting, March 2014, San Diego, CA.

6. Li-Chang H, **Assarzadegan N**, Messenger D, Grin A, Howlett C, Streutker C, El-Zimaity H, Kirsch R: The impact of the regional and systemic immune response on lymph node yields and survival in stage II colorectal cancer, The 103rd USCAP annual meeting, March 2014, San Diego, CA.
7. Li-Chang H, Mitrovic B, Handley K, Gray R, **Assarzadegan N**, Hutchins G, Quirke P, Riddell R, Kirsch R: Histopathologic grading using poorly differentiated clusters predicts outcome in colorectal carcinoma, DDW, May 2014, Chicago, IL.
8. Kirsch R, Juda A, **Assarzadegan N**, Messenger D, Riddell R: The Impact of Routine Elastin Staining on Venous Invasion Detection in Colorectal Cancer, The 104th USCAP annual meeting, March 2015, Boston, MA.
9. Mitrovic B, Handley K, **Assarzadegan N**, Li Chang H, Dawson H, Grin A, Hutchins G, Magill L, Quirke P, Riddell R, Gray R, Kirsch R: Prognostic and predictive value of tumour budding in stage II colorectal carcinoma, 2015 ASCO annual meeting, June 2015, Chicago, IL.
10. Huang Y, Harris B, **Assarzadegan N**, Lu X, Liu C, Duckworth L: Expression of c-Met and correlation with Hep Par in hepatocellular carcinoma, CAP 2015 annual meeting, October 2015, Nashville, TN.
11. Xie C, Zhan Y, **Assarzadegan N**, Wilson, JJ, Han S, Reeves WH, Yang L: Bone Marrow Stem Cell Niche Dysfunction in Human SLE, The 57th ASH Annual Meeting and Exposition, December 2015, Orlando, FL.
12. Forse C, Rahimi M, Diamandis E, **Assarzadegan N**, Dawson H, Grin A, Kennedy E, O' Connor B, Messenger D, Riddell R, Karagiannis GK, Kirsch R: HTRA3 Stromal Expression is correlated with Tumor Budding in Stage II Colorectal Cancer, The 105th USCAP annual meeting, March 2016, Seattle, WA.
13. **Assarzadegan N**, Imber MJ, Vanderboom P, Charlesworth C, Shon W: Laser microdissection and mass spectrometric-based proteomic analysis of sclerotic bodies ("elastocollagenous balls") in nephrogenic systemic fibrosis, The 105th USCAP annual meeting, March 2016, Seattle, WA.
14. **Assarzadegan N**, Felipe J Solano: Malignant Peritoneal Mesothelioma, A Case Report. Is It The Tail Of The Peak, CAP 2016, September 2016, Las Vegas, NV.
15. Dawson H, **Assarzadegan N**, Riddell RH, Kirsch R, Blank A, Zlobec I, Lugli A: Tumor budding is a strong predictor of disease-free survival in stage II colorectal cancer: Validation study based on the International Tumor Budding Consensus Conference (ITBCC) recommendations, 2017 ASCO Gastrointestinal cancer symposium, January 2017, San Francisco, CA.
16. Dawson H, **Assarzadegan N**, Kirsch R, Riddell RH, Zlobec I, Lugli A: Tumor budding Assessed by the International Tumor Budding Consensus Conference (ITBCC) Recommendations is a Strong Predictor of Disease-Free Survival in Stage II Colorectal Cancer, The 106th USCAP annual meeting, March 2016, San Antonio, TX.
17. Nasri E, Patel V, Kim J, Hiser W, **Assarzadegan N**, Olsen G, Jin Z, Liu X: Emergence of personalized training in pathology: Inflammatory bowel disease related dysplasia evaluation, CAP 2017 October 2017, National Harbor, MD.
18. **Assarzadegan N**, Voltaggio L, Montgomery E, Kherad-Pezhouh M: Gastric Glandular Siderosis: A rare, yet important to recognize entity, CAP 2017 October 2017, National Harbor, MD.
19. **Assarzadegan N**, Casler V, Esnakula A, Gonzalo DH, Harrell D, Huang Y, Kim

- J,Nasri E, Patel V, Hao X, Liu X: GI Pathology Residency Education: Barrett's Esophagus(BE) Biopsy Evaluation, ASCP 2017 September 2017, Chicago, IL.
20. **Assarzadegan N**, Olsen G, Chang M, Newsom K, Feely M: Assessment of Molecular Alterations in Recurrent Gastrointestinal Stromal Tumors Compared to Matched Primary Lesions by Next Generation Sequencing, Platform presentation, The 107th USCAP annual meeting, March 2018, Vancouver, Canada.
 21. Alpert L, Gastrointestinal Smooth Muscle Tumor Pathology Consortium (including **Assarzadegan N**): Smooth Muscle Tumors of the GI Tract: An analysis of Prognostic Features in over 400 cases, Platform presentation, The 108th USCAP annual meeting, March 2019, National Harbor, MD.
 22. Windon A, Hutchings D, Salimian K, **Assarzadegan N**, Voltaggio L, Montgomery E: Lymphocytic and Collagenous Colitis in Pediatric Patients Revisited: Clinicopathologic Analysis and Patient Outcomes in 25 Patients, The 109th USCAP annual meeting, February 2020, Los Angeles, CA.
 23. Salimian K, **Assarzadegan N**, Hutchings D, Windon A, Voltaggio L, Montgomery E: Psammomatous melanotic schwannoma of the lower gastrointestinal tract, The 109th USCAP annual meeting, February 2020, Los Angeles, CA.
 24. Hutchings D, Salimian K, **Assarzadegan N**, Windon A, Voltaggio L, Montgomery E, Rooper L: Epidermoid/Orthokeratotic Metaplasia of the Larynx, Toward a Unifying Concept for Pre-Dysplastic Lesions of the Upper Aerodigestive Tract, Platform presentation, The 109th USCAP annual meeting, February 2020, Los Angeles, CA.
 25. Hutchings D, Salimian K, **Assarzadegan N**, Windon A, Voltaggio L, Montgomery E: Secondary Perianal Paget's Disease as Spread from Non-Invasive Colorectal Adenomas: A Series of Four Cases, The 109th USCAP annual meeting, February 2020, Los Angeles, CA.
 26. **Assarzadegan N**, Hutchings D, Salimian K, Windon A, Voltaggio L, Montgomery E, Aodah A: Clinicopathologic Study of Blue nevi of the Gastrointestinal (GI) Tract, First Case Series, The 109th USCAP annual meeting, February 2020, Los Angeles, CA.
 27. **Assarzadegan N**, Estevez R, Hutchings D, Salimian K, Windon A, Montgomery E, Anders R, Oshima K: Segmental Atrophy (Pseudotumor) of the Liver, A Marker of Cardiovascular Disease That Mimics Neoplasia, The 109th USCAP annual meeting, February 2020, Los Angeles, CA.