CURRICULUM VITAE

Date: January 2025
Full name: John R. Eisenbrey
Home Address: 4 Winding Way
Wayne PA 19087, USA

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Philadelphia PA 1907, USA
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Education:

BS in Mechanical Engineering May 2005
BS in Business Management
Minor: Mathematics
University of Delaware, Newark, DE
Overall GPA: 3.7 /4.0

MS Biomedical Engineering June 2008
Microencapsulation Laboratory
Drexel University, Philadelphia PA
GPA: 3.8/4.0

PhD Biomedical Engineering March 2010
Microencapsulation Laboratory
Drexel University, Philadelphia PA
PhD Topic: Ultrasound Sensitive Polymeric Drug Carriers for Treatment of Solid Tumors
GPA: 3.9/4.0

Postgraduate Training:

2010-2013 Radiology Research Fellowship, Thomas Jefferson University, Philadelphia, PA, USA

Faculty Appointments:

Associate Director, Clinical & Translational Research, Scholarly Inquiry Program, Sidney Kimmel Medical College, Thomas Jefferson University, Philadelphia PA 2024-Present

Professor, Department of Radiology, Thomas Jefferson University, Philadelphia PA 2024-Present

Associate Professor, Department of Radiology, Thomas Jefferson University, Philadelphia PA 2018-2024

Research Assistant Professor, Department of Radiology, Thomas Jefferson University, Philadelphia PA 2013-2018

Awards, Honors, and Memberships in Honorary Societies:

- American Institute of Ultrasound in Medicine Annual Meeting Great 8 Award for Best Scientific Presentation 2024
- Drexel University, Distinguished Alumnus Award 2023
- Thomas Jefferson University Early Career Investigator Award for Distinguished Achievement in Biomedical Research 2021
- Thomas Jefferson University Distinguished Mentor Award 2020
- Elected Fellow, American Institute of Ultrasound in Medicine 2020
- Drexel University, 40 under 40 Award 2020
- Society of Interventional Oncology 2020 Meeting, Best Oral Abstract: HCC 2020
- Inducted into Academy of Radiology and Biomedical Imaging Research Distinguished Investigators 2019
- Elected Senior Member, American Institute of Ultrasound in Medicine 2016
- Drexel University, School of Biomedical Engineering, Science and Health Systems, 2014 Distinguished Alumni Award 2014
- World Molecular Imaging Congress, Student Travel Award 2013
- International Contrast Ultrasound Society Fresh Faces Award 2012
- Thomas Jefferson University Hospital Department of Radiology Judy Dubbs Memorial Research Award. 2012
- Outstanding Poster Presentation Award, 2012 Jefferson Postdoctoral Research Symposium. 2012
- American Institute of Ultrasound in Medicine Annual Meeting Scientific Poster Session – 2'nd Place (Second Author) March 2012
- Jefferson College of Graduate Studies Postdoctoral Travel Fellowship February 2011
- Drexel University Best Doctoral Dissertation Award, Physical and Life Sciences Category. 2010
- Drexel University Graduate Research Award. 2010
- Martin Blomley Award for Best Clinical Poster, 14th European Symposium on Ultrasound Contrast Imaging. 2009
- Best Graduate Student Poster, Drexel University Technology Showcase. October 2009
- Second Place, NanoBio Category, Discovery to Commercialization Conference, The Nanotechnology Institute. October 2009
- International Society of Pharmaceutical Engineering Student Paper Award. March 2008
- International Society of Pharmaceutical Engineering Graduate Student Poster of the Year. 2007
- International Society of Pharmaceutical Engineering Delaware Valley Chapter Student Poster Competition Winner. April 2007

- BRG Travel Grant to Present at XV Bioencapsulation Conference, Vienna. August 2007
- Drexel University Graduate Student Travel Grant, Research in Rotterdam, NL. July 2007
- Drexel University Calhoun Fellowship. 2006- 2010
- Member of the Tau Beta Pi Engineering Honor Society 2005
- Member of the Golden Key International Honor Society 2005
- NASA Undergraduate Tuition Scholarship. 2003-2005

Memberships in Professional and Scientific Societies:

- Member of the American Institute of Ultrasound in Medicine (AIUM)
- Member of the Institute of Electrical and Electronics Engineers (IEEE)
- Member of the International Contrast Ultrasound Society (ICUS)
- Member of the American Academy of Nanomedicine (AANM)
- Member of the American Association for the Advancement of Science (AAAS)

Professional and Scientific Committees:

- Elected member of the AIUM Board of Governors (2022-Present)
- Member of the AIUM Clinical Standards Committee (2022-Present)
- Chair of the AIUM Preclinical and High Frequency Ultrasound Community (2018-Present)
- Member of the AIUM Technical Standards Committee (2015-2017)
- Secretary of the AIUM Preclinical and High Frequency Ultrasound Community (2016-2018)
- Standing Member of NIH CTIS Grant Review Panel (2021-Present)
- Grant Reviewer for Physicians' Services Incorporated Foundation
- Grant Reviewer for DoD CDMRP
- Grant Reviewer for Thomas Jefferson University's DTSA
- Grant Reviewer for NIH (2019 IDT, 2019 NIDDK ZDK1 GRB-N, 2020 ZRG1 BST-R (10) B)

Editorial Positions and Manuscript Reviews:

- Associate Editor, Ultrasound in Medicine & Biology 2024-Present
- Associate Editor, Ultrasonic Imaging 2024-Present
- Subspecialty Editor, Therapeutic Ultrasound, Journal of Ultrasound in Medicine 2018-Present
- Deputy Editor, Advanced Ultrasound in Diagnosis and Therapy 2018-Present

- Reviewer for Journal of Ultrasound in Medicine- Distinguished Reviewer: 2011, 2014, 2016, 2017
- Reviewer for Molecular Imaging & Biology
- Reviewer for Ultrasonics
- Reviewer for Ultrasonic Imaging
- Reviewer for Ultrasonics Sonochemistry
- Reviewer for Investigative Radiology

- Reviewer for IEEE Trans on Biomedical Engineering
- Reviewer for IEEE Trans on Ultrasonics, Ferroelectrics and Frequency Control
- Reviewer for Colloids and Surfaces B: Biointerfaces
- Reviewer for Ultrasound in Medicine and Biology
- Reviewer for Physics in Medicine and Biology
- Reviewer for Journal of Drug Delivery Science and Technology
- Reviewer for Biomed Research International
- Reviewer for Biomaterials
- Reviewer for Academic Radiology
- Reviewer for Theranostics
- Reviewer for IEEE Trans on Medical Imaging
- Reviewer for Abdominal Radiology
- Reviewer for Scientific Reports
- Reviewer for PlosOne
- Reviewer for JAMA Otolaryngology
- Reviewer for PlosMedicine

Academic Committees at the Thomas Jefferson University/Jefferson Medical College and Affiliated Hospitals:

- Member of Thomas Jefferson University's Kimmel Cancer Center Data Safety Monitoring Board (2017-Present)
- Member of Thomas Jefferson University's Kimmel Cancer Center (2016-Present)
- Member of Thomas Jefferson University's Committee on Research (2015-Present)
- Member of Thomas Jefferson University's Institutional Animal Care and Use Committee (2015-Present)

Teaching Experience and Responsibilities:

- Sidney Kimmel Medical College Scientific Inquiry Clinical Translational Research Program Mentor (10 Students/ class year), June 2017- Present
- Thomas Jefferson University Radiology Residents, Introduction to Ultrasound Physics 2012- Present (Lecturer)
- Drexel University BMES 622: Medical Imaging Systems II, Winters 2011-Present (Lecturer)
- Drexel University BMES 125: Introduction to Biomedical Engineering, Fall 2008 (Teaching Assistant)
- Drexel University BMES 212: The Body Synthetic, Summer 2009 (Teaching Assistant)
- Drexel University BMES 451: Transport Phenomena in Living Systems, Winter 2008, Summer 2008, Winter 2009 (Teaching Assistant)
- Drexel University BMES 480: Medical Product Development, Spring 2008, Spring 2009 (Teaching Assistant)
- Drexel University BMES 509: Entrepreneurship for Biomedical Engineering and Science, Winter 2006 (Teaching Assistant)

Students Supervised:

- David Wiener, WPI, Research Experience for Undergraduates, 2006
- Rekha Kambhampati, Drexel University, STAR Summer Researcher, 2006
- Phyllis Huang, Drexel University, Research Volunteer, 2006-2009
- Jennifer Hsu, Brown University, Research Experience for Undergraduates, 2008
- Nicole Cohen, Drexel University, Research Co-Op Student, 2007
- Alex Membrino, Drexel University, STAR Summer Researcher, 2009
- Richard Ouma Jr, Drexel University, Research Co-Op Student, 2009
- Christian Wilson, Columbia Medical School, Research Rotation, 2011
- Michael Kramer, Temple Medical School, Summer Researcher, 2014
- Annemarie Daecher, Villanova University Research Volunteer, 2015-2016
- Rawan Shraim, Drexel University Research Co-Op Student, 2015
- Caitlin Finley, University of Massachusetts Medical Physics Student, 2015-2016
- Matthew Carr, Thomas Jefferson University Medical Student, 2016-2017.
- Ryan Margolis, Drexel University MS Student, 2016-2018.
- Brian Calio, Thomas Jefferson University Medical Student, 2016-2018
- Sriharsha Gummadi, Lankenau Hospital Surgical Resident, 2017-2018.
- Annemarie Daecher, Thomas Jefferson University Medical Student, 2016-2018.
- Shuo Wang, Drexel University MS Student, 2018-Present
- Yemaiza Ojeda-Lassalle, Drexel University MS Student, 2018-2020
- Quezia Lacerda, Drexel University PhD Student, 2018-2023
- Diego Arias, Thomas Jefferson University Medical Student, 2018-2020
- Joonyau Leong, Thomas Jefferson University Medical Student, 2017-2019
- Corinne Wessner, Drexel University PhD Student, 2020-Present
- Aylin Tahmasebi, Thomas Jefferson University Post Doc 2019-Present
- Mohamed Tantawi, Thomas Jefferson University Post Doc 2019-2022
- Yang Hai, Thomas Jefferson University Gap Year Student 2020-Present
- Joshua Yu, Thomas Jefferson University Medical Student, 2019-2022
- Esika Savsani, Thomas Jefferson University Gap Year Student 2020-2022
- Hebah Falatah Drexel University PhD Student, 2019-2023
- Ajay McKenna, Thomas Jefferson University Medical Student, 2020-Present
- Adam Polikoff, Thomas Jefferson University Medical Student, 2020-Present
- Philip Lee, Thomas Jefferson University Gap Year Student 2021-2022
- Matthew Shirley, Drexel University PhD Student, 2022-Present
- Ga Won Kim, Drexel University PhD Student, 2022-Present
- Felipe Velasquez-Botero, International Medical Graduate Gap Year, 2022-2023
- Tania Siu Xiao, Postdoctoral Fellow, 2023- Present
- Cristina Yeng Escalante, International Medical Graduate Gap Year, 2023- Present
- Pratiksha Singru, Drexel University MS Student, 2023- 2024
- Brian Oeffinger, Postdoctoral Fellow, 2024- Present
- Rohit Nagaraj, Thomas Jefferson University Medical Student, 2024-Present
- Pooja Gouru, Thomas Jefferson University Medical Student, 2024-Present
- Bogdan Popa, Thomas Jefferson University Medical Student, 2025-Present

- Leanna Reichert, Thomas Jefferson University Medical Student, 2025-Present

Lectures by Invitation:

1. J.R. Eisenbrey. CEUS detection of RCC post ablation. International Contrast Ultrasound Society. September 7th, 2023. Chicago, IL.

2. J.R. Eisenbrey. Emerging applications of contrast enhanced ultrasound in interventional oncology. NCI Cancer Imaging Program. May 11th, 2023 [Virtual].

3. J.R. Eisenbrey. Ultrasound-triggered microbubble destruction augmentation of tumor radioembolization. European symposium on ultrasound contrast imaging. January 19th, 2023. Rotterdam, NL.

4. J.R. Eisenbrey. Recent advances in diagnostic and therapeutic contrast enhanced ultrasound. University of North Carolina & NC State University Department of Biomedical Engineering Seminar. November 4th, 2022. Chapel Hill, NC.

5. J.R. Eisenbrey. Emerging applications of diagnostic and therapeutic ultrasound. Drexel School of Biomedical Engineering Seminar. October 12th, 2022. Philadelphia, PA.

6. J.R. Eisenbrey. Microbubble cavitation augmentation of radioembolization. International Contrast Ultrasound Society. September 1st, 2022. Chicago, IL.

7. J.R. Eisenbrey. Microbubble augmentation of cancer therapies in clinical trials. Gordon Research Conference. August 17th, 2022. Ventura, CA.

8. J.R. Eisenbrey. High frequency ultrasound in dermatology: technical advances. American Institute of Ultrasound in Medicine Annual Meeting. March 15th, 2022. San Diego, CA.

9. J.R. Eisenbrey. Emerging uses of ultrasound contrast agents for diagnosis and therapy. University of California San Diego, Nanoengineering Grand Rounds. March 11th, 2022 [Virtual].

10. J.R. Eisenbrey. Contrast-enhanced ultrasound evaluation of HCC transarterial chemoembolization: results from a multi-center trial. International Contrast Ultrasound Society. September 20th, 2021. Chicago, IL.

11. J.R. Eisenbrey. Oxygen estimation via photoacoustic: translation from preclinical to clinical trial. American Institute of Ultrasound in Medicine Annual Meeting. April 14th, 2021 [Virtual].

12. J.R. Eisenbrey. Post ablation follow up and treatment augmentation with CEUS. The Society of Radiologists in Ultrasound Annual Meeting [Virtual]. October 24th, 2020.

13. J.R. Eisenbrey. Ultrasound Research and Applications in Translational Oncology. Kimmel Cancer Center Translational and Cellular Oncology Working Group Seminar. Philadelphia, PA. October 21st, 2020.

14. J.R. Eisenbrey, C.E. Wessner, F. Forsberg, A. Lyshchik, P. O'Kane, A. Tan, A. Smolock, J. Civan, S. Schultz, S. Shamimi-Noori, S. Hunt, M.C. Soulen, Y. Kono, C.M. Shaw. Contrast-enhanced ultrasound evaluation of residual blood flow following HCC chemoembolization: preliminary results of a prospective multi-center clinical trial Society of Interventional Oncology Annual Meeting. New Orleans, LA. February 1st, 2020.

15. J.R. Eisenbrey. Emerging uses of ultrasound contrast agents for diagnosis and therapy. Hospital of the University of Pennsylvania Radiology Grand Rounds. December 17th 2019.

16. L. Delaney, C. Wessner, S. Gummadi, P. Machado, F. Forsberg, A. Lyshchik, P. O'Kane, A. Tan, C.M. Shaw, J.R. Eisenbrey. Microbubble Cavitation for Augmenting HCC Radiotherapy. 34th Annual Advances in Contrast Ultrasound International Bubble Conference International Contrast Ultrasound Society Chicago, Illinois. September 05, 2019.

17. J.R. Eisenbrey. Monitoring Interventional Oncology Treatments with CEUS. Leading Edge in Diagnostic Ultrasound Annual Conference. Atlantic City, NJ. May 14th, 2019

18. L. Delaney, C. Wessner, S. Gummadi, P. Machado, F. Forsberg, A. Lyshchik, P. O'Kane, A. Tan, C.M. Shaw, J.R. Eisenbrey. Contrast-enhanced ultrasound predicts radioembolization treatment response in hepatocellular carcinoma. Society of Interventional Oncology Annual Meeting. June 10th, 2019.

19. C. Wessner, J.R. Eisenbrey, M. Stanczak, S. Gummadi, F. Forsberg, A. Lyshchik, A. Tan, C. Shaw. Can contrast-enhanced ultrasound guide TACE retreatment in patients with residual tumor vascularity? Society of Interventional Oncology Annual Meeting. June 10th, 2019.

20. J.Y. Leong, C.E. Wessner, P. Machado, E.J. Trabulsi, E. Halpern, F. Forsberg, J.R. Eisenbrey, P.H. Chung. Assessing the Utility of Contrast-Enhanced Ultrasound for the Evaluation of Urethral Stricture Disease: A Pilot Study [Poster]. 31st Congress of the EFSUMB Annual Conference, May 31st 2019.

21. J.R. Eisenbrey. Monitoring Liver Cancer Treatments with CEUS. Leading Edge in Diagnostic Ultrasound Annual Conference. Atlantic City, NJ. May 14th, 2019.

22. J.R. Eisenbrey. Diagnostic and Therapeutic CEUS in Interventional Radiology. American Institute of Ultrasound in Medicine Annual Meeting, Orlando, FL. April 8th, 2019.

23. J.R. Eisenbrey, L.J. Delaney, S. Gummadi, C.E. Wessner, P. Machado, A. Lyshchik, P. O'Kane, J. Civan, A. Tan, F. Forsberg, C.M. Shaw. Ultrasound Triggered Microbubble Destruction for Improving HCC Radiotherapy and Predicting Long Term Treatment Response. Kavli Futures Symposiums- Ultrasound Contrast Research. UT Southwestern, Dallas TX. Feb 24rd, 2019.

24. J.R. Eisenbrey, L.J. Delaney, B. Oeffinger, R. Shraim, D.B. Leeper, P. O'Kane, J.B. Liu, F. Forsberg, M.A. Wheatley. Overcoming Hypoxia-Associated Radiotherapy Resistance Using Ultrasound Microbubbles. Kavli Futures Symposiums- Ultrasound Contrast Research. UT Southwestern, Dallas TX. Feb 23rd, 2019.

25. J.R. Eisenbrey, L.J. Delaney, S. Gummadi, C.E. Wessner, P. Machado, A. Lyshchik, P. O'Kane, J. Civan, A. Tan, F. Forsberg, C.M. Shaw. Augmenting Radiotherapy with Ultrasound Sensitive Microbubbles. 2019 European Symposium on Contrast Ultrasound. Rotterdam, NL. January 17th 2019.

26. J.R. Eisenbrey, Ultrasound Sensitive Microbubbles for Improving Diagnosis and Therapy. UT Dallas Department of Biomedical Engineering Invited Rounds. Dallas, TX. November 16th 2018.

27. J.R. Eisenbrey, Ultrasound Sensitive Microbubbles for Improving Diagnosis and Therapy. Drexel University Department of Biomedical Engineering Seminar. Philadelphia, PA. November 14th 2018.

28. J.R. Eisenbrey. The Power of Sound: Harnessing Acoustics for Improving Patient Care. ASME Invited Lecture. Villanova, PA. October 15th, 2018.

29. J.R. Eisenbrey. Microbubble Cavitation for Augmenting HCC Radiotherapy. International Contrast Ultrasound Society Annual Meeting, Chicago, IL. September 6th, 2018.

30. J.R. Eisenbrey. Ultrasound Contrast Agents for Augmenting Radiotherapy. World Molecular Imaging Congress, Seattle, WA, September 12th, 2018.

31. J.R. Eisenbrey, Contrast Enhanced Ultrasound in Interventional Oncology. Leading Edge in Diagnostic Ultrasound Annual Conference. Atlantic City, NJ. May 6th, 2018.

32. J.R. Eisenbrey. Comparison of Photoacoustic Derived Fingertip Oxygenation Levels from Raynaud's Patients and Healthy Volunteers. American Institute of Ultrasound in Medicine Annual Meeting, New York, NY. March 28th, 2018.

33. J.R. Eisenbrey. High Frequency Ultrasound- Hands on Session. American Institute of Ultrasound in Medicine Annual Meeting, New York, NY. March 26th, 2018.

34. J.R. Eisenbrey. Ultrasound Contrast Agents for Augmenting Radiotherapy. American Institute of Ultrasound in Medicine Annual Meeting, New York, NY. March 26th, 2018.

35. J.R. Eisenbrey. Photoacoustic Imaging Biomarkers. American Institute of Ultrasound in Medicine Annual Meeting, New York, NY. March 26th, 2018.

36. J.R. Eisenbrey. Are Parsed Contrast-enhanced Ultrasound Exams as Accurate as Cine Loops: Preliminary Findings. American Institute of Ultrasound in Medicine Annual Meeting, New York, NY. March 26th, 2018.

37. J.R. Eisenbrey. The power of sound: harnessing acoustics for improving patient care. Jefferson University Knowledge Exchange. Philadelphia, PA. Nov 17th, 2017.

38. J.R. Eisenbrey. Emerging clinical and preclinical applications of ultrasound and photoacoustic imaging. GlaxoSmithKline Seminar. King of Prussia, PA. October 3rd, 2017.

39. J.R. Eisenbrey. Emerging preclinical and clinical applications in photoacoustic imaging. VisualSonics Seminar. Philadelphia, PA. September 12th, 2017.

40. J. Li, L. Jablonowski, J.R. Eisenbrey, F. Forsberg, A. Siddiqui, J.B. Liu. Time intensity curve analysis of subharmonic transabdominal and harmonic endoscopic contrast-enhanced ultrasound of pancreatic masses. 2017 IEEE International Ultrasonics Symposium. Washington, DC. September 9th, 2017.

41. J.R. Eisenbrey, R. Shraim, J.B. Liu, J. Li, M. Stanczak, B. Oeffinger, F. Forsberg, P. O'Kane, M.A. Wheatley. Sensitization of hypoxic tumors to radiation therapy using ultrasound sensitive oxygen microbubbles. IEEE International Ultrasonics Symposium. Washington, DC. September 8th, 2017.

42. J.R. Eisenbrey. Volumetric contrast-enhanced ultrasound for monitoring interventional oncology procedures [Keynote]. 17th Chinese Society of Ultrasound in Medicine Annual Meeting. Hangzhou, China. September 1st, 2017.

43. J.R. Eisenbrey. Ongoing ultrasound research at Thomas Jefferson University. Invited lecture at Beijing's Friendship Hospital, Beijing China. August 28th, 2017.

44. J.R. Eisenbrey. Ongoing ultrasound research at Thomas Jefferson University. Invited lecture at Peking University Shenzhen Hospital, Shenzhen China. August 29th, 2017.

45. J.R. Eisenbrey. Microbubble applications in radiotherapy. 2017 American Association of Physicists in Medicine Annual Meeting. Denver, CO. August 2nd, 2017.

46. J.R. Eisenbrey. Emerging areas in ultrasound research. The Kimmel Cancer Center Breast Cancer Retreat. Philadelphia, PA. July 19th, 2017.

47. J.R. Eisenbrey. Monitoring treatment with contrast-enhanced ultrasound. The Leading Edge in Diagnostic Ultrasound Annual Conference. Atlantic City, NJ. May 9th, 2017.

48. J.R. Eisenbrey. Contrast-enhanced ultrasound in ablation monitoring- case review. American Institute of Ultrasound in Medicine Annual Meeting, Orlando, FL. March 27th, 2017.

49. A. Daecher, M. Stanczak, J.B. Liu, J. Zhang, S. Du, D.B. Leeper, F. Forsberg, J.R. Eisenbrey. Localized microbubble cavitation-based anti-vascular therapy for improving HCC treatment response to radiotherapy. American Institute of Ultrasound in Medicine Annual Meeting, Orlando, FL. March 28th, 2017.

50. J.R. Eisenbrey, M. Stanczak, F. Forsberg, A. Lyshichik, J. Civan, S. Shamimi-Noori, C.M. Shaw. 2D and 4D contrast-enhanced ultrasound evaluation of hepatocellular carcinoma following transarterial chemoembolization. American Institute of Ultrasound in Medicine Annual Meeting, Orlando, FL. March 27th, 2017.

51. J.R. Eisenbrey, R. Shraim, J.B. Liu, M. Stanczak, L. Jablonowski, F. Forsberg, J. Li, L. Sang, B. Oeffinger, P. O'Kane, M.A. Wheatley. Overcoming tumor hypoxia with ultrasound-sensitive oxygen microbubbles. American Institute of Ultrasound in Medicine Annual Meeting, Orlando, FL. March 28th, 2017.

52. M.S. Carr, K. Nam, M. Stanczak, A. Lyshchik, C.M. Shaw, J.B. Liu, C.D. Lallas, E.J. Trabulsi, F. Forsberg, J.R. Eisenbrey. Characterizing renal cell carcinoma ablation cavities using 3D contrast enhanced ultrasound time intensity curve analysis. IEEE Ultrasonics Symposium, Tours, France. September 20th, 2016.

53. C. Finley, M. Stanczak, S. Zhang, Y. Wang, P. Wang, J.B. Liu, F. Forsberg, J.R. Eisenbrey. Effects of ultrasound coupling gel on photoacoustic signal attenuation. IEEE Ultrasonics Symposium, Tours, France. September 20th, 2016.

54. J.R. Eisenbrey, M. Stanczak. Exploring new biomarkers with high frequency ultrasound and photoacoustic imaging. Fujifilm VisualSonics Webinar. July 27th, 2016.

55. J.R. Eisenbrey. Microbubble Applications in Radiotherapy. The Leading Edge in Diagnostic Ultrasound Annual Conference. Atlantic City, NJ. May 10th, 2016.

56. J.R. Eisenbrey. Volumetric CEUS of Renal Masses Following Cryoablation. The Leading Edge in Diagnostic Ultrasound Annual Conference. Atlantic City, NJ. May 10th, 2016.

57. J.R. Eisenbrey. New Biomarkers with Photoacoustic Imaging. AIUM Annual Meeting. New York, NY. March 20th, 2016.

58. J.R. Eisenbrey, M. Stanczak, A. Lyshchik, C.M. Shaw, J.B. Liu, C. Lallas, E.J. Trabulsi, F. Forsberg. Two and three-dimensional contrast-enhanced ultrasound monitoring of renal cell carcinoma recurrence after cryoablation. AIUM Annual Meeting. New York, NY. March 21st, 2016.

59. S. Dastgheyb, J.R. Eisenbrey, M. Stanczak, F. Forsberg, J.B. Liu, S. Zhang, C. Zhang, N.J. Hickok. Microbubble Cavitation for Disruption and Antibacterial Sensitization of Staphylococcus Aureus Biofilms in Synovial Fluid. 2015 RSNA Annual Meeting, Chicago, IL. December 2015.

60. J.R. Eisenbrey. Emerging Areas in Diagnostic and Therapeutic Ultrasound. IEEE Philadelphia Section Meeting, Philadelphia PA. November 17th, 2015.

61. J.R Eisenbrey, J.B. Liu, A. Sridharan, M. Stanczak, C. Shaw, A. Lyshchik, P. O'Kane, F. Forsberg. Ultrasound Research at Thomas Jefferson University. Invited lecture at West China Hospital, Chengdu China. June 19th, 2015.

62. J.R. Eisenbrey, C.M. Shaw, A. Lyshchik, P. Machado, C.D. Lallas, E.J. Trabulsi, D.A. Merton, T.B. Fox, J.B. Liu, D.B. Brown, F. Forsberg. Contrast-enhanced ultrasound of solid renal masses. Interventional Ultrasound Symposium, Beijing Third Hospital, Beijing China. June 16th, 2015.

63. J.R Eisenbrey, J.B. Liu, A. Sridharan, M. Stanczak, C. Shaw, A. Lyshchik, P. O'Kane, F. Forsberg. Ultrasound Research at Thomas Jefferson University. Invited lecture at Beijing's Friendship Hospital, Beijing China. June 15th, 2015.

64. J.R. Eisenbrey, J.B. Liu, J. Gonzalez, , J.K. Dave, V.G. Halldorsdottir, J. Gonzalez, P. Machado, C.L. Chalek, K.E. Thomenius, D.B. Brown, V. Navarro, F. Forsberg. Noninvasive screening for portal hypertension using subharmonic aided pressure estimation. XIV International Forum of Digestive Diseases. Beijing, China. June 14th, 2015

65. J.R. Eisenbrey, J.B. Liu, M. Stanczak, L. Albala, P. O'Kane, M.A. Wheatley, F. Forsberg. Ultrasound triggered oxygen delivery to hypoxic tumors for improving radiotherapy. The Leading Edge in Diagnostic Ultrasound Annual Conference. Atlantic City, NJ. April 2015.

66. J.R. Eisenbrey, C.M. Shaw, A. Lyshchik, P. Machado, C.D. Lallas, E.J. Trabulsi, D.A. Merton, T.B. Fox, J.B. Liu, D.B. Brown, F. Forsberg. Contrast-enhanced ultrasound of solid renal masses. The Leading Edge in Diagnostic Ultrasound Annual Conference. Atlantic City, NJ. April 2015.

67. J.R. Eisenbrey, J.B. Liu, A. Sridharan, F. Forsberg. Contrast-enhanced subharmonic imaging. WFUMB/AIUM Annual Meeting. Orlando, FL. March 25th, 2015.

68. J.R. Eisenbrey, J.B. Liu, M. Stanczak, L. Albala, M. Daroshefski, D. Brown, X.H. Wang, S.S. You, P. O'Kane, M.A. Wheatley, F. Forsberg. Ultrasound triggered oxygen delivery to hypoxic tumors. WFUMB/AIUM Annual Meeting. Orlando FL. March 23'rd, 2015.

69. J.R. Eisenbrey, J.B. Liu, T.B. Fox, F. Forsberg, S.G. Rao, H. Singh H. High frequency ultrasound imaging of Drosophila for cardiac research applications. WFUMB/AIUM Annual Meeting. Orlando, FL. March 22'nd, 2015.

70. J.R. Eisenbrey. Ultrasound research capabilities at Thomas Jefferson University. RESTORE Meeting, Department of Pathology, Anatomy, and Cell Biology, Thomas Jefferson University. March 2nd, 2015.

71. J.R. Eisenbrey. Contrast enhanced ultrasound for monitoring interventional oncology procedures. China-America Ultrasound Scholar Training Program. Jefferson Ultrasound Research and Education Institute, Thomas Jefferson University. November 4th, 2014.

72. J.R. Eisenbrey. Contrast enhanced ultrasound for drug delivery. China-America Ultrasound Scholar Training Program. Jefferson Ultrasound Research and Education Institute, Thomas Jefferson University. November 4th, 2014.

73. J.R. Eisenbrey, C.M. Shaw, A. Lyshchik, P. Machado, C.D. Lallas, E.J. Trabulsi, D.A. Merton, T.B. Fox, J.B. Liu, D.B. Brown, F. Forsberg. Characterization of Renal Masses with Harmonic and Subharmonic Contrast-Enhanced Ultrasound. IEEE Ultrasonics Symposium, Chicago IL. September 4th, 2014.

74. J.R. Eisenbrey, P. Machado, A. Sridharan, H. Ojeda-Fournier, A. Wilkes, A. Sevrukov, R.F. Mattrey, F. Forsberg. 4D Harmonic and Subharmonic Contrast-Enhanced Ultrasound for the Characterization of Breast Masses: Update on a Multi-center Prospective Study. IEEE Ultrasonics Symposium, Chicago IL. September 4th, 2014.

75. M. Thakur, F. Forsberg, J.R. Eisenbrey. Animal imaging at Jefferson. Kimmel Cancer Center Grand Rounds, Thomas Jefferson University. Philadelphia PA, June 2014.

76. J.R. Eisenbrey, P. Machado, C. Shaw, A. Lyshchik, D.A. Merton, L. Pino, J.B. Liu, C.D. Lallas, E.J. Trabulsi, D.B. Brown, F. Forsberg. Monitoring interventional oncology treatments with quantitative contrast imaging. The Leading Edge in Diagnostic Ultrasound Annual Conference. Atlantic City, NJ. May 2014

77. J.R. Eisenbrey, A. Sridharan, D.A. Merton, P. Machado, K. Wallace, C.L. Chalek, H. Ojeda-Fournier, R.F. Mattrey, K. Thomenius, F. Forsberg. 3D subharmonic breast imaging- an update. The Leading Edge in Diagnostic Ultrasound Annual Conference. Atlantic City, NJ. May 2014.

78. J.R. Eisenbrey, A Lyshchik, C. Shaw, J. Weinsten, P. Machado, D.A. Merton, L. Pino, D.B. Brown, F. Forsberg. Parametric contrast-enhanced ultrasound evaluation of transarterial chemoembolization. AIUM Annual Meeting, Las Vegas, NV. April 2014.

79. J.R. Eisenbrey, P. Machado, C. Shaw, A. Lyshchik, D.A. Merton, L. Pino, J.B. Liu, C.D. Lallas, E.J. Trabulsi, D.B. Brown, F. Forsberg. Evaluation of renal mass cryoablation with contrast-enhanced harmonic and subharmonic ultrasound: preliminary results and dosage optimization. AIUM Annual Meeting, Las Vegas, NV. April 2014.

80. J.R. Eisenbrey, D.A. Merton, J.B. Liu, A. Marshall, T.B. Fox, A. Sridharan, F. Forsberg. Comparing photoacoustic derived hemoglobin and oxygenation measurements and ultrasound contrast agent derived vascularity measurements with immunohistochemical staining in a breast cancer xenografts model. 2013 RSNA Annual Meeting, Chicago, IL. December 2013.

81. J.R. Eisenbrey, C. Shaw, A. Lyshchik, D.A. Merton, P. Machado, L. Pino, D.B. Brown, F. Forsberg. Contrast enhanced ultrasound for early assessment of transarterial chemoembolization of hepatocellular carcinoma using drug eluting beads: preliminary safety and efficacy. 2013 RSNA Annual Meeting, Chicago, IL. December 2013.

82. J.R. Eisenbrey. Contrast enhanced ultrasound evaluation of transarterial chemoembolization and renal cell carcinoma cryoablation. Department of Radiology Conference. Thomas Jefferson University, November 20th, 2013.

83. J.R. Eisenbrey. Contrast enhanced ultrasound. Department of Orthopaedic Surgery Seminar. Thomas Jefferson University, November 11th, 2013.

84. J.R. Eisenbrey. Contrast enhanced ultrasound for interventional radiology. Advanced Ultrasound Symposium, China-America Ultrasound Scholar Training Program. Jefferson Ultrasound Research and Education Institute, Thomas Jefferson University. September 24th, 2013.

85. J.R. Eisenbrey. Targeted drug delivery with ultrasound contrast agents. Advanced Ultrasound Symposium, China-America Ultrasound Scholar Training Program. Jefferson Ultrasound Research and Education Institute, Thomas Jefferson University. September 24th, 2013.

86. J.R. Eisenbrey, D.A. Merton, J.B. Liu, T.B. Fox, A. Sridharan, F. Forsberg. Ultrasound contrast agent based vascularity measurements versus photoacoustic

derived hemoglobin and oxygenation measurements in a breast cancer model. 2013 World Molecular Imaging Congress, Savannah, GA, September 2013.

87. J.R. Eisenbrey, C.C. Wilson, A. Sridharan, R.J. Ro, T.B. Fox, J.B. Liu, S.Y. Chiou, F. Forsberg. Prediction of VEGF expression in two tumor models using dynamic contrast enhanced ultrasound: identification of optimal imaging mode and temporal parameter. 2013 World Molecular Imaging Congress, Savannah, GA, September 2013.

88. J.R. Eisenbrey, A. Sridharan, D.A. Merton, P. Machado, K. Wallace, C.L. Chalek, H. Ojeda-Fournier, R.F. Mattrey, K. Thomenius, F. Forsberg. 4D subharmonic breast imaging. The Leading Edge in Diagnostic Ultrasound Annual Conference. Atlantic City, NJ, May 2013.

89. J.R. Eisenbrey, A. Sridharan, D. Merton, P. Machado, K. Wallace, C.L. Chalek, K. Thomenius, F. Forsberg. Four-dimensional subharmonic breast imaging: initial experiences. AIUM Annual Meeting, New York, NY, April 2013.

90. J.R. Eisenbrey, V. Halldorsdottir, A. Sridharan, J. Rychak, F. Forsberg. Effect of targeted ultrasound contrast agent attachment on nonlinear frequency emissions. AIUM Annual Meeting, New York, NY, April 2013.

91. J.R. Eisenbrey, C.C. Wilson, R.J. Ro, T.B. Fox, J.B. Liu, S.Y. Chiou, F. Forsberg. Correlation of ultrasound contrast agent-derived blood flow parameters with immunohistochemical markers in murine xenografts: influence of the imaging mode, tumor model, and subcutaneous location. AIUM Annual Meeting, New York, NY, April 2013.

92. J.R. Eisenbrey, A. Sridharan, P. Machado, D.A. Merton, J.B. Liu, K. Wallace, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, F. Forsberg. 4D subharmonic imaging in vivo. IEEE Ultrason. Symp., Dresden, Germany, October 2012.

93. A. Sridharan, J.R. Eisenbrey, P. Machado, J.B. Liu, H. Zhao, Y. He, K. Wallace, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, F. Forsberg. Perfusion estimation using 3D subharmonic imaging: an in vivo study. IEEE Ultrason. Symp., Dresden, Germany, October 2012.

94. J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, D.A. Merton, J.B. Liu, J.H. Zhou, H.K. Wang, S. Park, S. Dianis, C. Chalek, F. Lin, K. Thomenius, D. Brown, F. Forsberg. On the utility of subharmonic microbubble signals to detect portal hypertension. IEEE Ultrason. Symp., Dresden, Germany, October 2012.

95. J.R. Eisenbrey, A. Sridharan, D.A. Merton, P. Machado, V.G. Halldorsdottir, J.K. Dave, J.B. Liu, H. Zhao, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, F. Forsberg. In vitro and in vivo 4-dimensional subharmonic imaging. AIUM Annual Meeting, Phoenix AZ, March 2012.

96. J.R. Eisenbrey, J.K. Dave, V.G. Halldorsdottir, D.A. Merton, J. Gonzalez, C. Miller, P. Machado, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, D.B. Brown, V. Navarro, F. Forsberg. Noninvasive measurement of portal hypertension using subharmonic emissions from ultrasound contrast agents in patients with suspected portal hypertension. AIUM Annual Meeting, Phoenix AZ, March 2012.

97. C.C. Wilson, J.R. Eisenbrey, R.J. Ro, T.B. Fox, J.B. Liu, S.Y. Chiou, F. Forsberg. Parametric imaging of ultrasound contrast shows an improved correlation with immunohistochemical markers in a glioma model compared to nonparametric imaging. AIUM Annual Meeting, Phoenix AZ, March 2012.

98. J.R. Eisenbrey, J.K. Dave, V.G. Halldorsdottir, D.A. Merton, C. Miller, J.M. Gonzalez, P. Machado, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, D.B. Brown, V. Navarro, F. Forsberg. Subharmonic aided pressure estimation for the diagnosis of portal hypertension in patients with chronic liver disease. IV Reunión Internacional sobre Avances en Hepatología, Valladolid, Spain, February 2012.

99. J.R. Eisenbrey, J.K. Dave, V.G. Halldorsdottir, D.A. Merton, C. Miller, J.M. Gonzalez, P. Machado, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, D.B. Brown, V. Navarro, F. Forsberg. Subharmonic aided pressure estimation in patients with suspected portal hypertension. IEEE Ultrason. Symp., Orlando, FL, October 2011.

100. J.R. Eisenbrey, J.K. Dave, V.G. Halldorsdottir, A. Sridharan, S. Park, S. Dianis, D.A. Merton, P. Machado, J.B. Liu, J.M. Gonzalez, C. Miller, K.E. Thomenius, D.B. Brown, V. Navarro, F. Forsberg. Simultaneous B-mode/subharmonic imaging and 3D subharmonic imaging on a modified commercial ultrasound scanner. IEEE Ultrason. Symp., Orlando, FL, October 2011.

101. J.R. Eisenbrey, A. Sridharan, B.E. Lobel, E.D. deMuinck, F. Forsberg, M.M. Doyley. Comparison of parametric contrast-enhanced fundamental and subharmonic IVUS for plaque identification. AIUM Annual Meeting, New York, NY, April 2011.

102. J.R. Eisenbrey, J.K. Dave, D.A. Merton, J.P. Palazzo, A.L. Hall, F. Forsberg. Breast lesion characterization by parametric imaging of subharmonic signals from ultrasound contrast agents. IEEE Ultrason. Symp., San Diego, CA, October 2010

103. J.R. Eisenbrey, M.C. Soulen, M.A. Wheatley. Delivery of encapsulated doxorubicin by ultrasound triggered size reduction of polymeric ultrasound contrast agents. Discovery to Commercialization Conference, The Nanotechnology Institute, Philadelphia PA. October 2009.

104. J.R. Eisenbrey, M.C. Soulen, M.A. Wheatley. Delivery of encapsulated doxorubicin for sustained intratumoral release by localized size reduction of polymeric ultrasound contrast agents. The 14th Annual European Symposium on Ultrasound Contrast Imaging, Rotterdam, The Netherlands. January 2009.

105. J.R Eisenbrey, P. Huang, J. Hsu, M.C. Soulen, M.A. Wheatley. In situ generation of doxorubicin eluting nanoshards using ultrasound triggered destruction of polymer contrast agents. 4th Annual American Academy of Nanomedicine Conference, Potomac, MD. September 2008.

106. J.R Eisenbrey, M.A. Wheatley, M.C. Soulen. Microbubble platform for non-invasive US-mediated drug delivery to liver tumors: in vivo evaluation. 2nd International Liver Cancer Association 2008 Annual Conference, Chicago Il. September 2008.

107. J.R. Eisenbrey, R. Sensineg, A. Brooks, MA. Wheatley. Development of a drug eluting surgical staple for small lumen reattachment. Drexel University Research Day, Philadelphia, PA. April 2008.

108. J.R. Eisenbrey, MA. Wheatley. Microencapsulated doxorubicin for use in ultrasound triggered drug delivery. Annual Meeting, International Society of Pharmaceutical Engineering Student Poster Competition. Las Vegas, NV. November 2007.

109. J.R. Eisenbrey, O. Mualem-Burstein, MA Wheatley. Microencapsulated chemotherapeutics in polymer ultrasound contrast agents for targeted ultrasound triggered drug delivery. Erasmus Medical College, Rotterdam, The Netherlands. September 2007.

110. J.R. Eisenbrey, O. Mualem-Burstein, MA Wheatley. Microencapsulated doxorubicin in PLA and PLGA ultrasound contrast agents: Diagnosis and therapy. XV International Bioencapsulation Conference, Vienna, Austria. September 2007.

Peer Reviewed Publications:

1. Lyshchik A, Kuon Yeng Escalante C, Siu Xiao T, Piscaglia F, Kono Y, Medellin-Kowalewski A, Rodgers SK, Planz V, Kamaya A, Fetzer DT, Berzigotti A, Radu IP, Sidhu PS, Wessner CE, Bradigan K, Eisenbrey JR, Forsberg F, Wilson SR; CEUS LI-RADS Trial Group; CEUS LI-RADS Trial Group Members. Contrast-enhanced US of High-Risk Indeterminate Focal Liver Observations Categorized as LR-4 or LR-M at CT/MRI. Radiology. 2025 Jan;314(1):e240916.

2.Mayer H, Eisenbrey JR, Forsberg F. On Microbubble Degradation and Flow Velocity in Subharmonic Pressure Estimation. Ultrasound Med Biol. 2024 Nov 27:S0301-5629(24)00424-1

3.E. Savsani, C.M. Shaw, F. Forsberg, C.E. Wessner, A. Lyshchik, P. O'Kane, J.B. Liu, R. Balasubramanya, C.G. Roth, H. Naringrekar, A. Tan, K. Anton, K. Bradigan, J. Civan, S. Schultz, S. Shamimi-Noori, S. Hunt, M.C. Soulen, R.F. Mattrey, Y. Kono, J.R. Eisenbrey. Rigorous data modeling of diagnostic performance in conjunction with Cohen's kappa coefficient allows for a comprehensive analysis of multifaceted radiologist reads. Radiology. In Press.

4. Azami RH, Yapar M, Halder S, Forsberg F, Eisenbrey JR, Sarkar K. Effects of Different Gas Cores on the Ambient Pressure Sensitivity of the Subharmonic Response of SonoVue. Ultrasound Med Biol. 2025 Feb;51(2):373-380.

5.Kuon Yeng Escalante CM, Siu Xiao T, Kono Y, Piscaglia F, Wilson SR, Medellin A, Rodgers SK, Planz V, Kamaya A, Fetzer DT, Berzigotti A, Sidhu PS, Wessner CE, Bradigan K, Eisenbrey JR, Forsberg F, Lyshchik A; CEUS LI-RADS Trial Group. Inter-Reader Agreement for Contrast-Enhanced Ultrasound Liver Imaging Reporting and Data System Major Features and Final Categorization: A Subanalysis From a Prospective Multicenter Study. J Ultrasound Med. 2025 Feb;44(2):349-357.

6. Siu Xiao T, Kuon Yeng Escalante CM, Tahmasebi A, Kono Y, Piscaglia F, Wilson SR, Medellin-Kowalewski A, Rodgers SK, Planz V, Kamaya A, Fetzer DT, Berzigotti A, Radu IP, Sidhu PS, Wessner CE, Bradigan K, Eisenbrey JR, Forsberg F, Lyshchik A. Combining CEUS and CT/MRI LI-RADS major imaging features: diagnostic accuracy for classification of indeterminate liver observations in patients at risk for HCC. Abdom Radiol (NY). 2024 Epub ahead of print.

7.Shirley MA, Arango-Aliaga V, Patel A, Oeffinger BE, Eisenbrey J, Wheatley MA. Development of a Polymer Ultrasound Contrast Agent Incorporating Nested Carbon Nanodots. Ultrason Imaging. 2025 Jan;47(1):45-56.

8.Mayer H, Kim GW, Machado P, Eisenbrey JR, Vu T, Wallace K, Forsberg F. Investigation Into the Subharmonic Response of Three Contrast Agents in Static and Dynamic Flow Environments Using a Commercially Available Diagnostic Ultrasound Scanner. Ultrasound Med Biol. 2024 Nov;50(11):1731-1738.

9.Kuon Yeng Escalante CM, Siu Xiao T, Nagaraj RU, Savsani E, Mohammed A, Li J, Lyshchik A, Liu JB, Wessner CE, Tahmasebi A, Soulen MC, Kono Y, Eisenbrey JR. Evaluation of the Contrast-Enhanced Ultrasound Nonradiation Treatment Response Assessment LI-RADS v2024 Using Data From a Multi-Center Transarterial Chemoembolization Study. Acad Radiol. 2024 Dec;31(12):5078-5086.

10.Falatah HA, Lacerda Q, Wessner CE, Lo S, Wheatley MA, Liu JB, Eisenbrey JR. Influence of Phase Change Droplet Activation and Microbubble Cavitation on the

Microenvironment of Hepatocellular Carcinoma. Ultrasound Med Biol. 2024 Sep;50(9):1387-1394.

11. Kono Y, Piscaglia F, Wilson SR, Medellin A, Rodgers SK, Planz V, Kamaya A, Fetzer DT, Berzigotti A, Sidhu PS, Wessner CE, Bradigan K, Kuon Yeng Escalante CM, Siu Xiao T, Eisenbrey JR, Forsberg F, Lyshchik A; CEUS LI-RADS Trial Group. Clinical impact of CEUS on non-characterizable observations and observations with intermediate probability of malignancy on CT/MRI in patients at risk for HCC. Abdom Radiol (NY). 2024 Aug;49(8):2639-2649.

12. Tam A, Contreras K, Fall F, Maxwell A, Liu JB, Forsberg F, Vlaisavljevich E, Goldberg A, Xiao TS, Kuon Yeng E C, Eisenbrey JR, Koenig G. Development of a contrast-enhanced ultrasound guided high intensity focused ultrasound system for coagulation of liver parenchyma. J Trauma Acute Care Surg. 2024 May 23. Epub ahead of print.

13. Azami RH, Forsberg F, Eisenbrey JR, Sarkar K. Acoustic response and ambient pressure sensitivity characterization of SonoVue for noninvasive pressure estimation. J Acoust Soc Am. 2024 Apr 1;155(4):2636-2645.

14. Oeffinger BE, Stanczak M, Lepore AC, Eisenbrey JR, Wheatley MA. Determining Ultrasound Parameters for Bursting Polymer Microbubbles for Future Use in Spinal Cord Injury. Ultrasound Med Biol. 2024 Jun;50(6):888-897.

15. Sun G, Eisenbrey JR, Smolock AR, Lallas CD, Anton KF, Adamo RD, Shaw CM. Percutaneous Microwave Ablation versus Cryoablation for Small Renal Masses (≤4 cm): 12-Year Experience at a Single Center. J Vasc Interv Radiol. 2024 Jun;35(6):865-873.

16. J.B. Liu, P. Machado, J.R. Eisenbrey, S. Gummadi, F. Forsberg, C.E. Wessner, A. Raman Kumar, A. Chiang, A. Infantolino, A. Schlachterman, T. Kowalski, R. Coben, D. Loren. Identification of sentinel lymph nodes in esophageal cancer patients using contrast-enhanced EUS with peritumoral injections. Endosc Ultrasound. 2023 12(4):362-368.

17. Lyshchik A, Wessner CE, Bradigan K, Eisenbrey JR, Forsberg F, Yi M, Keith SW, Kono Y, Wilson SR, Medellin A, Rodgers SK, Planz V, Kamaya A, Finch L, Fetzer DT, Berzigotti A, Sidhu PS, Piscaglia F; CEUS LI-RADS Trial Group. Contrast-enhanced ultrasound liver imaging reporting and data system: clinical validation in a prospective multinational study in North America and Europe. Hepatology. 2024 Feb 1;79(2):380-391.

18. E. Savsani, C.M. Shaw, F. Forsberg, C.E. Wessner, A. Lyshchik, P. O'Kane, J.B. Liu, R. Balasubramanya, C.G. Roth, H. Naringrekar, A. Tan, K. Anton, K. Bradigan, J. Civan, S. Schultz, S. Shamimi-Noori, S. Hunt, M.C. Soulen, R.F. Mattrey, Y. Kono, J.R. Eisenbrey. Contrast Enhanced Ultrasound Evaluation of

Hepatocellular Carcinoma Chemoembolization: A Prospective Multi-Center Trial. Radiology. 2023; 309(1):e230727.

19. V. Papadopoulou, E.P. Stride, M.A. Borden, J.R. Eisenbrey, P.A. Dayton. Radiotherapy Sensitization With Ultrasound-Stimulated Intravenously Injected Oxygen Microbubbles Can Have Contrary Effects Depending on the Study Model. Ultrasound Med Biol. 2023 Sep;49(9):2203-2204.

20. R.H. Azami, F. Forsberg, J.R. Eisenbrey, K. Sarkar. Ambient Pressure Sensitivity of the Subharmonic Response of Coated Microbubbles: Effects of Acoustic Excitation Parameters. Ultrasound Med Biol. 2023 Jul;49(7):1550-1560.

21. Q. Lacerda. H. Falatah, J.B. Liu, C.E. Wessner, B. Oeffinger, A. Rochani, D.B. Leeper, F. Forsberg, J.M. Curry, G. Kaushal, S.W. Keith, P. O'Kane, M.A. Wheatley, J.R. Eisenbrey. Improved tumor control following radiosensitization with ultrasound-sensitive oxygen microbubbles and tumor mitochondrial respiration inhibitors in a preclinical model of head and neck cancer. Pharmaceutics 2023. 15(4):1302.

22. N. Zhao, D. Curry, R.E. Evans, S. Isguven, T. Freeman, J.R. Eisenbrey, F. Forsberg, J.M. Gilbertie, S. Boorman, R. Hilliard, S.S. Dastgheyb, P. Machado, M. Stanczak, M. Harwood, A.F. Chen, J. Parvizi, I.M. Shapiro, N.J. Hickok, T.P. Schaer. Microbubble cavitation restores staphylococcus aureus antibiotic susceptibility in vitro and in a septic arthritis model. Commun Biol. 2023; 6(1):425.

23. P. Lee, A. Makkena, M. Tantawi, F. Velasquez-Botero, J.R. Eisenbrey, C.M. Shaw. Microwave ablation as a primary versus secondary treatment for hepatocellular carcinoma. Diagn Interv Radiol. 2023; 29(2):359-366.

24. A. Tahmasebi, C.E. Wessner, F.F. Guglielmo, S. Wang, T. Vu, J.B. Liu, J. Civan, A. Lyshchik, F. Forsberg, H. Li, E. Qu, J.R. Eisenbrey. Comparison of magnetic resonance-based elastography and ultrasound shear wave elastography in patients with suspicion of nonalcoholic fatty liver disease. Ultrasound Q. 2023; 39(2):100-108.

25. B.K. Barnhart, T. Kan, A. Srivastava, C.E. Wessner, J. Waters, M. Ambelil, J.R. Eisenbrey, J.B. Hoek, R. Vadigepalli. Longitudinal ultrasound imaging and network modeling in rats reveal sex-dependent suppression of liver regeneration after resection in alcoholic liver disease. Front Physiol. 2023; 14:1102393.

26. K.G. Brown, R. Margolis, B. Trinh, J.R. Eisenbrey, K. Hoyt. Assessment of transarterial chemoembolization using super-resolution ultrasound imaging and a rat model of hepatocellular carcinoma. Ultrasound Med Biol. 2023; 49(5):1318-1326.

27. A. Tahmasebi, S. Wang, C.E. Wessner, T. Vu, J.B. Liu, F. Forsberg, J. Civan, F.F. Guglielmo, J.R. Eisenbrey. Ultrasound-based machine learning approach for detection of nonalcoholic fatty liver disease. J Ultrasound Med. 2023; 42(8):1747-1756.

28. P. Lee, A. Tahmasebi, J.K. Dave, M.R. Parekh, M. Kumaran, S. Wang, J.R. Eisenbrey, A. Donoru. Comparison of gray-scale inversion to improve detection of pulmonary nodules on chest x-ray between radiologists and a deep convolution neural network. Curr Probl Diagn Radiol. 2022; S0263-0188(22)00145.

29. T. Chandrasekar, C.B. Clark, A. Gomella, C.E. Wessner, S. Wang, K. Nam, J.B. Liu, F. Fosberg, A. Lyshchik, E. Halpern, J.R. Mark, C.D. Lallas, L.G. Gomella, L. Kania, E.J Trabulsi, J.R. Eisenbrey. Volumetric quantitative contrast enhanced ultrasonography evaluation of complex renal cysts: an adjunctive metric to the Bosniak classification system to predict malignancy. Eur Urol Focus. 2022 S2405-4569(22)00232-2.

30. M.U. Aziz, J.R. Eisenbrey, A. Deganello, M. Zahid, K. Sharbidre, P. Sidhu, M.L. Robbin. Microvascular flow imaging: a state-of-the-art review of clinical use and promise. Radiology. 2022; 305(2)250-264.

31. A. Salib, E. Halpern, J.R. Eisenbrey, T. Chandrasekar, P.H. Chung, F. Forsberg, E.J. Trabulsi. The evolving role of contrast-enhanced ultrasound in urology: a review. World J Urol. 2023; 41(3):673-678.

32. T. Tiyarattanachi, S. Turco, J.R. Eisenbrey, C.E. Wessner, A. Medellin-Kowaleski, S. Wilson, A. Lyshchik, A. Kamaya, A. El Kaffas. A comprehensive motion compensation method for in-plane and out-of-plane motion in dynamic contrast-enhanced ultrasound of focal liver lesions. Ultrasound Med Biol. 2022; 48(11):2217-2228.

33. Q. Lacerda, A. Rochani, B. Oeffinger, J.B. Liu, C.E. Wessner, A. Tahmasebi, H. Falatah, P. Lee, D.B. Leeper, F. Forsberg, J. Curry, S.W. Keith, P. O'Kane, G. Kaushal, M.A. Wheatley, J.R. Eisenbrey. Tumoral oxygenation and biodistribution of lonidamine oxygen microbubbles following localized ultrasound-triggered delivery. Int J Pham. 2022; 625:122072.

34. R.H. Azami, M Aliabouzar, J. Osborn, K.N. Kumar, F. Forsberg, J.R. Eisenbrey, S. Mallik, K. Sarkar. Material properties, dissolution and time evolution of PEGylated lipid-shelled microbubbles: effects of polyethylene glycol hydrophilic chain configurations. Ultrasound Med Biol. 2022; 48(9):1720-1732.

35. R. Patel, Q. Lacerda, B.E. Oeffinger, J.R. Eisenbrey, A.K. Rochani, G. Kaushal, C.E. Wessner, M.A. Wheatley. Development of a dual drug-loaded, surfactant-stabilized contrast agent containing oxygen. Polymers (Basel). 2022; 14(8):1586.

36.L.J. Delaney, S. Isguven, J.R. Eisenbrey, N.J. Hickok, F. Forsberg. Making waves: how ultrasound-targeted drug delivery is changing pharmaceutical approaches. Mater Adv. 2022; 3(7):3023-3040.

37.M. Tantawi, S. Shamimi-Noori, C.M. Shaw, J.R. Eisenbrey. State of the art: contrast enhanced 4D ultrasound to monitor or assess locoregional therapies. Digestive Disease Interventions 2022; 06(1):003-012.

38.G. Koenig, M. Tantawi, C.E. Wessner, J.R, Eisenbrey. Evaluation of suspected small bowel ischemia using contrast-enhanced ultrasound with computed tomography fusion. J Emerg Trauma Shock. 2022; 15(1):60-62.

39.S. Turco, T. Tiyattanachai, K. Ebrahimkheil, J.R. Eisenbrey, A. Kamaya, M. Mischi, A. Lyshchik, A. El Kaffas. Interpretable machine learning for characterization of focal liver lesions by contrast-enhanced ultrasound. IEEE Trans Ultrason Ferroelectr Freq Control. 2022; 69(5): 1670-1681.

40.H.A. Falatah, Q. Lacerda, M. Chaga, C.E. Wessner, F. Forsberg, D.B. Leeper, J.R. Eisenbrey. Activation of phase change contrast agents using ionizing radiation. J Ultrasound Med. 2021; 41(9): 2365-2371.

41.P. Machado, I. Gupta, J.M. Fenkel S. Gummadi, M. Stanczak, C.E. Wessner, C.M Shaw, S. Schultz, M.C. Soulen, K. Wallace, J.R. Eisenbrey, F. Forsberg. Ultrasound pressure estimation for diagnosing portal hypertension in patients undergoing dialysis for chronic kidney disease. J Ultrasound Med. 2022; 41(9): 2181-2189.

42.W. van Hoeve, M. de Vargas Serrano, L. Te Winkel, F. Forsberg, J.K. Dave, K. Sarkar, C.E. Wessner, J.R. Eisenbrey. Improved sensitivity of ultrasound-based subharmonic aided pressure estimation using monodisperse microbubbles. J Ultrasound Med. 2022; 41(7):1781-1789.

43.F. Forsberg, C.W. Piccoli, A. Sridharan, A. Wilkes, A. Sevrukov, H. Ojeda-Fournier, R.F. Mattrey, P. Machado, M. Stanczak, D.A. Merton, K. Wallace, J.R. Eisenbrey. 3D harmonic and subharmonic imaging for characterizing breast lesions: a multi-center clinical trial. J Ultrasound Med. 2022; 41(7):1667-1675.

44.A. Polikoff, C.E. Wessner, R. Balasubramanya, S. Dulka, J.B. Liu, P. Machado, E. Savsani, A. Lyshchik, C.M. Shaw, J.R. Eisenbrey. Imaging appearance of residual HCC following incomplete trans-arterial chemoembolization on contrast-enhanced imaging. Abdom Radiol (NY). 2022; 47(1):152-160.

45.P.B. Vaidya, B.E. Oeffinger, R. Patel, Q. Lacerda, J. Powell, J.R. Eisenbrey, M.A. Wheatley. Shaping the synthesis of surfactant-stabilized oxygen microbubbles to accommodate encapsulated drug. Colloids Surf B Biointerfaces. 2021; 208:112049.

46.P.H. Chung, J.Y. Leong, P. Machado, C.E. Wessner, E.J. Trabulsi, E.J. Halpern, J.R. Eisenbrey, F. Forsberg. Contrast-enhanced ultrasound and shear wave elastography: novel methods for the evaluation of urethral stricture disease. J Urol. 2022; 207(1):152-160.

47.A. Tahmasebi, E. Que, A. Sevrukov, J.B. Liu, S. Wang, A. Lyshchik, J. Yu, J.R. Eisenbrey. Assessment of axillary lymph nodes for metastasis on ultrasound using artificial intelligence. Ultrason Imaging. 2021; 53(6):329-336.

48.Y. Hai, E. Savsani, W. Chong, J.R. Eisenbrey, A. Lyshchik. Meta-analysis and systematic review of contrast-enhanced ultrasound in evaluating the treatment response after locoregional therapy of hepatocellular carcinoma. Abdom Radiol (NY). 2021; 46(11):5162-5179.

49.Y. Hai, W. Chong, J.R. Eisenbrey, F. Forsberg. Network meta-analysis: noninvasive imaging modalities for identifying clinically significant portal hypertension. Dig Dis Sci. 2021; In Press.

50.A. Sridharan, J.R. Eisenbrey, F. Forsberg, N. Lorenz, L. Steffgen, A. Ntoulia. Ultrasound contrast agents: microbubbles made simple for the pediatric radiologist. Pedatr Radiol. 2021; 51(12):2177-2127.

51.S. Gummadi. G. Koenig, C.E. Wessner, P. Machado, J. Stem, F. Forsberg, J.B. Liu, A. Lyshchik, P. O'Kane, J.R. Eisenbrey. Contrast-enhanced ultrasound in small intestinal ischemia: proof of concept. J Ultrasound Med. 2022; 41(4):835-843.

52.L.J. Delaney, J.R. Eisenbrey, D. Brown, J.R. Brody, M. Jimbo, B.E. Oeffinger, M. Stanczak, F. Forsberg, J.B. Liu, M.A. Wheatley. Gemcitabine-loaded microbubble system for ultrasound imaging and therapy. Acta Biomater. 2021, 130:385-394.

53.L. Delaney, M. Tantawi, C.E. Wessner, P. Machado, F. Forsberg, A. Lyshchik, P. O'Kane, J.B. Liu, J. Civan, A. Tan, K. Anton, C.M. Shaw, J.R. Eisenbrey. Predicting long-term hepatocellular carcinoma response to transarterial radioembolization using contrast-enhanced ultrasound: initial experiences. Ultrasound Med Biol. 2021, 47(9):2523-2531.

54.J.R. Eisenbrey, H. Gabriel, E. Savsani, A. Lyshchik. Contrast-enhanced ultrasound (CEUS) in HCC diagnosis and assessment of tumor response to locoregional therapies. Abdom Radiol (NY). 2021, 46(8):3579-3595.

55.C.W. Shultz, G.R. de Garibay, A. Langer, J.B. Liu, T. Dhir, C. Leitch, C.E. Wessner, M. Mayoral, B. Zhang, M. Popa, C. Huang, S. Kotopoulis, X. Luo, Y. Zhen, S. Niu, M. Torkzaban, K. Wallace, J.R. Eisenbrey, J.R. Brody, E.

McCormack, F. Forsberg. Selecting the optimal parameters for sonoporation of pancreatic cancer in a pre-clinical model. Cancer Biol Ther. 2021, 22(3):204-215.

56. Q. Lacerda, M. Tantawi, D.B. Leeper, M.A. Wheatley, J.R. Eisenbrey. Emerging applications of ultrasound-contrast agents in radiation therapy. Ultrasound Med Biol. 2021, 47(6):1465-1474.

57. P. Machado, I. Gupta, S. Gummadi, M. Stanczak, C.E. Wessner, J.M. Fenkel, C.M. Shaw, S. Shamimi-Noori, S. Schultz, M.C. Soulen, C.M. Sehgal, K. Wallace, J.R. Eisenbrey, F. Forsberg. Hepatic vein contrast-enhanced ultrasound subharmonic imaging signal as a screening test for portal hypertension. Dig Dis Sci. 2021, 66(12):4354-4360.

58. I. Gupta, J.M. Fenkel, J.R. Eisenbrey, P. Machado, M. Stanczak, C.E. Wessner, C.M. Shaw, C. Miller, M.C. Soulen, K. Wallace, F. Forsberg. A noninvasive ultrasound based technique to identify treatment responders in patients with portal hypertension. Acad Radiol. 2021, 28(Suppl 1):S128-S137.

59. F. Forsberg, I. Gupta, P. Machado, C.M. Shaw, J.M. Fenkel, K. Wallace, J.R. Eisenbrey. Contrast-enhanced subharmonic aided pressure estimation (SHAPE using ultrasound imaging with a focus on identifying portal hypertension. J Vis Exp. 2020; 5(166).

60. A.K. Rochani, M.A. Wheatley, B.E. Oeffinger, J.R. Eisenbrey, G. Kaushal. LC-MS based stability-indicating method for studying the degradation of lonidamine under physical and chemical stress conditions. Res Pharm Sci. 2020; 15(4):312-233.

61. J.R. Eisenbrey, F. Forsberg, C.E. Wessner, L.J. Delaney, K. Bradigan, S. Gummadi, M. Tantawi, A. Lyshchik, P. O'Kane, J.B. Liu, C. Intenzo, J. Civan, W. Maley, S.W. Keith, K. Anton, A. Tan, A. Smolock, S. Shamimi-Noori, C.M. Shaw. Ultrasound-triggered microbubble destruction for augmenting hepatocellular carcinoma response to transarterial radioembolization: a randomized pilot clinical trial. Radiology. 2021; 298(2):450-457.

62. S. Wang, J. Xu, A. Tahmasebi, K. Daniels, J.B. Liu, J. Curry, E. Cottrill, A. Lyshchik, J.R. Eisenbrey. Incorporation of a machine learning algorithm with object detection within the thyroid imaging reporting and data system improves the diagnosis of genetic risk. Frontiers Oncol. 2020; 10:591846.

63. I. Gupta, J.R. Eisenbrey, P. Machado, M. Stanczak, C.E. Wessner, C.M. Shaw, S. Gummadi, J.M. Fenkel, A. Tan, C. Miller, J. Parent, S. Schultz, M. Soulen, C.M. Sehgal, K. Wallace, F. Forsberg. Diagnosing portal hypertension with noninvasive subharmonic pressure estimates from a US contrast agent. Radiology. 2021; 298(1):104-111.

64. C.E. Wessner, C.M. Shaw, M. Stanczak, F. Forsberg, A. Lyshchik, A. Tan, J.R. Eisenbrey. Contrast-enhanced ultrasound identifies patent feeding vessels in transarterial chemoembolization patients with residual tumor vascularity. Ultrasound Q. 2020; 36(3):218-223.

65. S. Wang, S. Niu, E. Qu, F. Forsberg, A. Wilkes, A. Sevrukov, K. Nam, R.F. Mattrey, H. Ojeda-Fournier, J.R. Eisenbrey. Characterization of indeterminate breast lesions on B-mode ultrasound using automated machine learning models. J Med Imag. 2020, **7**(5);057002.

66. K.E. Daniels, J.Xi, J.B. Liu, X. Chen, K. Huang, J. Patel, E. Cottrill, J.R. Eisenbrey, A. Lyshchik. Diagnostic value of TI-RADS classification system and next generation genetic sequencing in indeterminate thyroid nodules. Acad Radiol. 2020, S1076-6332(20):30460-8.

67. A. Bellary, A. Villarreal, R. Eslami, Q.J. Undseth, B. Lec, A.M. Defnet, N. Bagrodia, J.J. Kandel, M.A. Borden, S. Shaikh, R. Chopra, T.W. Laetsch, L.J. Delaney, C.M. Shaw, J.R. Eisenbrey, S.L. Hernandez, S.R. Sirsi. Perfusion-guided sonopermeation of neuroblastoma: a novel strategy for monitoring and predicting liposomal doxorubicin uptake in vivo. Theranostics. 2020, 10(18):8143-8161.

68. S. Gummadi, N. Patel, H. Naringrekar, L. Needleman, A. Lyshchik, P. O'Kane, J. Civan, J.R. Eisenbrey. Automated machine learning in the sonographic diagnosis of non-alcoholic fatty liver disease. Advanced Ultrasound Diag Therapy. In Press.

69. J.R. Eisenbrey, A. Kamaya, S. Gummadi, K. Bird, D. Burrowes, D. Arias, C.D. Lallas, E.J. Trabulsi, A. Lyshchik. Effects of contrast-enhanced ultrasound imaging of indeterminate renal masses on patient clinical treatment. J Ultrasound Med. 2021; 40(1):131-139.

70. I. Oezdemir, C.E. Wessner, C.M. Shaw, J.R. Eisenbrey, K. Hoyt. Tumor vascular networks depicted in contrast-enhanced ultrasound images as a predictor for transarterial chemoembolization treatment response. Ultrasound Med Biol. 2020, 46(9):2276-2286.

71. Y. Hai, W. Chong, J.B. Liu, F. Forsberg, J.R. Eisenbrey. The diagnostic value of contrast-enhanced ultrasound for monitoring complications after kidney transplantation- a systemic review and meta-analysis. Acad Radiol. 2020, In Press.

72. J.Y. Leong, C.E. Wessner, M.K. Kramer, F. Forsberg, E.J. Halpern, A. Lyshchik, M. Torkzaban, A. Morris, K. Byrne, M. VanMeter, E.J,. Trabulsi, C.D. Lallas, J.R. Eisenbrey. Superb microvascular imaging improves detection of vascularity in indeterminate renal masses. J Ultrasound Med. 2020, 39(10):1947-1955.

73. A. Sridharan, J.R. Eisenbrey, M. Stanczak, P. Machado, D.A. Merton, A. Wilkes, A. Sevrukov, H. Ojeda-Fournier, R.F. Mattrey, K. Wallace, F. Forsberg. Characterizing breast lesions using quantitative parametric 3D subharmonic imaging: a multicenter study. Acad Radiol. 2020; 27(8):1065-1074.

74. P. Khaing, A. Paruchuri, J.R. Eisenbrey, G.J. Merli, C.F. Gonsalves, F.M. West, B.K. Awsare. First year experience of a pulmonary embolism response team with comparisons of outcomes between catheter directed therapy versus standard anticoagulation. Hosp Pract (1995). 2020; 48(1):23-28.

75. K. Daniels, S. Gummadi, Z. Zhu, S. Wang, J. Patel, B. Swendseid, A. Lyshchik, J. Curry, E. Cottrill, J.R. Eisenbrey, Machine-learning for the genetic risk stratification of thyroid nodules by ultrasound. JAMA Oto. 2019; 146(1):1-6.

76. S. Wang, J.B. Liu, Z. Zhu, J.R. Eisenbrey. Artificial intelligence in ultrasound imaging: current research and applications. Advanced Ultrasound Diag Therapy. 2019; 03:053-061.

77. V. Thumar, J.B. Liu, J.R. Eisenbrey. Applications in Molecular Ultrasound Imaging: Present and Future. Advanced Ultrasound Diag Therapy. 2019; 03:062-75.

78. L. Delaney, L. Ciraku, B.E. Oeffinger, C. Wessner, J.B. Liu, J. Li, K. Nam, F. Forsberg, D.B. Leeper, P. O'Kane, M.A. Wheatley, M.J. Reginato, J.R. Eisenbrey. Breast cancer brain metastasis response to radiation following microbubble oxygen delivery in a murine model. J Ultrasound Med. 2019; 38(12):3221-3228.

79. R. Margolis, C. Wessner, M. Stanczak, J.B. Liu, J. Li, K. Nam, F. Forsberg, J.R. Eisenbrey. Monitoring progression of ductal carcinoma in situ using photoacoustics and contrast-enhanced ultrasound. Transl Oncol. 2019; 12(7):973-980.

80. B.E. Oeffinger, P. Vaidya, I. Ayaz, R. Sharim, J.R. Eisenbrey, M.A. Wheatley. Preserving the integrity of surfactant-stabilized microbubble membranes for localized oxygen delivery. Langmuir. 2019; 35(11):10068-10078.

81. L.J. Delaney, D. MacDonald, J. Leung, K. Fitzgerald, A.M. Sevit, J.R. Eisenbrey, N. Patel, F. Forsberg, C.K. Kepler, T. Fang, S.M. Kurtz, N.J. Hickok. Ultrasound-triggered antibiotic release from PEEK clips to prevent spinal fusion infection: Initial evaluations. Acta Biomater. 2019; 93:12-24.

82. K. Nam, J.B. Liu, M. Stanczak, F. Forsberg, P.L. O'Kane, Z. Lin, Z. Zhu, J. Li, C.C. Solomides, J.R. Eisenbrey, A. Lyshchik. Performance of Molecular Lymphosonography for Detection and Quantification of Metastatic Involvement in Sentinel Lymph Nodes. J Ultrasound Med. 2019; 38(8):2103-2110.

83.K. Nam, J.B. Liu, J.R. Eisenbrey, M. Stanczak, P. Machado, J. Li, Z. Li, Y. Wei, F. Forsberg. Three-dimensional subharmonic aided pressure estimation for assessing arterial plaques in a rabbit model. J Ultrasound Med. 2019; 38(7):1865-1873.

84.J. Li, L. Needleman, J.B. Liu, A. Lyshchik, F. Forsberg, M. Stanczak, J. McAlister, J.R. Eisenbrey. Influence of data parsing on contrast enhanced ultrasound exams. Acad Radiol. 2019; 26(8):1030-1039.

85.S. Gummadi, J.R. Eisenbrey, J. Li, Z. Li, F. Forsberg, A. Lyshchik, J.B. Liu. Advances in modern clinical ultrasound. Advanced Ultrasound Diag Therapy. 2018; 02:51-63.

86.I. Gupta, J.R. Eisenbrey, P. Machado, M. Stanczak, K. Wallace, F. Forsberg. On factors affecting subharmonic-aided pressure estimation (SHAPE). Ultrason Imaging. 2018;41(1):35-48.

87.B. Calio, J. Li, J.B. Liu, M. Stanczak, C. Shaw, R. Adamo, F. Forsberg, C. Lallas, E. Trabulsi, J.R. Eisenbrey. Long term surveillance of renal cell carcinoma recurrence following ablation using 2D and 3D contrast-enhanced ultrasound. Urology. 2018; 121:189-196.

88.J.R. Eisenbrey, M. Stanczak M, F. Forsberg, F.A. Medoza-Ballesteros, A. Lyshchik A. Photoacoustic oxygenation quantification in patients with Raynaud's: first-in-human results. Ultrasound Med Biol. 2018; 44(10): 2081-88.

89.K. Nam, M. Stanczak, A. Lyshchik, P. Machado, Y. Kono, F. Forsberg, C.M. Shaw, J.R. Eisenbrey. Evaluation of hepatocellular carcinoma transarterial chemoembolization using quantitative analysis of 2D and 3D real-time contrast enhanced ultrasound. Biomedical Phys. Eng. Ex. 2018;4:035039.

90.S. Gummadi, M. Stanczak, A. Lyshchik, F. Forsberg, C.M. Shaw, J.R. Eisenbrey. Contrast-enhanced ultrasound identifies early extrahepatic collateral contributing to residual hepatocellular tumor viability after transarterial chemoembolization. Radiology case reports 2018;13:713-718.

91.S. Gummadi, J.R. Eisenbrey, A. Lyshchik. Contrast-enhanced ultrasonography in interventional oncology. Abdominal radiology. 2018; 43(11):3166-3175.

92.P. Machado, J.R. Eisenbrey, M. Stanczak, B.C. Cavanaugh, L.M. Zorn, F. Forsberg. Ultrasound detection of microcalcifications in surgical breast specimens. Ultrasound Med Biol. 2018;44:1286-1290.

93.S. Gummadi, J.R. Eisenbrey, A. Lyshchik. A narrative review on contrast-enhanced ultrasound in aortic endograft endoleak Surveillance. Ultrasound Quart. 2018; 34(3):170-175.

94.P. Machado, M. Stanczak, J.B. Liu, J.N. Moore, J.R. Eisenbrey, L. Needleman, W.K. Kraft, F. Forsberg. Subdermal ultrasound contrast agent injection for sentinel lymph node identification: an analysis of safety and contrast agent dosage in health volunteers. J Ultrasound Med, 2018; 37(7):1611-1620.

95.J.R. Eisenbrey, R. Shraim, J.B. Liu, J. Li, M. Stanczak, B. Oeffinger, D.B. Leeper, S. Keith, L. Jablonowski, P. O'Kane, F. Forsberg, M.A. Wheatley. Sensitization of hypoxic tumors to radiation therapy using ultrasound sensitive oxygen microbubbles. *Int J Rad Oncol Biol Phys*. 2018; 101(1):88-96.

96.P. Machado, J.R. Eisenbrey, B. Cavanaugh, L. Zorn, F. Forsberg. Characterization of breast microcalcifications using a new ultrasound image processing technique. *J Ultrasound Med.* 2019; 38(7):1733-1738.

97.J.K. Dave, M.E. McDonald, P. Mehrotra, A.R. Kohut, J.R. Eisenbrey. F. Forsberg. Recent advancements in cardiac ultrasound imaging. *Ultrasonics.* 2018; 84:329-340.

98.C.F. Dietrich, M. Averkiou, M. Bachmann Nielsen, R.G. Barr, P.N. Burns, F. Calliada, V. Cantisani, B. Choi, M.C. Chammas, D. Clevert, M. Claudon, J.M. Correas, D. Cosgrove, X.W. Cui, M. D'Onorfio, Y. Dong, J.R. Eisenbrey, T. Fonatnilla, O.H. Gilja, A. Ignee, C. Jenssen, Y. Kono, M. Kudo, N. Lassau, A. Lyshchik, M.F. Meloni, F. Moriyasu, C.P. Nolsoe, F. Piscaglia, M. Radzina, A. Saftoiu, P.S. Sidhu, I. Sporea, D. Schreiber-Dietrich, CB. Sirlin, M. Stanczak, H.P. Weskott, S.R. Wilson, J.K. Willmann, T.K. Kim, H.J. Jang, A. Vezeridis, S. Weserway. How to perform contrast-enhanced ultrasound (CEUS). *Ultrasound Int Open*. 2018; 4(1):E2-E15.

99.A. Daecher, M. Stanczak, J.B. Liu, J. Zhang, S. Du, F. Forsberg, D.B. Leeper, J.R. Eisenbrey. Localized microbubble cavitation-based antivascular therapy for improving HCC treatment response to radiotherapy. *Cancer Letters*. 2017; 411:100-105.

100.K. Nam, M. Stanczak, F. Forsberg, J.B. Liu, J.R. Eisenbrey, C.C. Solomides, A. Lyshchik. Sentinel lymph node characterization with a dual-targeted molecular ultrasound contrast agent. *Molecular Imaging Biology*. 2018; 20(2):221-229.

101.L.J. Jablonowski, M.C. Cochran, J.R. Eisenbrey, N.T. Teraphongphom, M.A. Wheatley. Shell effects on acoustic performance of a drug-delivery system activated by ultrasound. J Biomed Mat Res Part A. 2017; 105A:3189-96.

102.M. Kramer, N. Bhagat, S.J. Back, L. Poznick, F. Forsberg, K. Darge, J.R. Eisenbrey. Influence of administration setups on microbubble enhancement: a focus on pediatric applications. *Ped. Radiol.* 2018; 48(1):101-108.

103.A. Shaheen, M.S. Weinstein, A. Beekley, J.A. Marks, J.R. Eisenbrey, C.M. Shaw, J. Eschelman, N.A. Raham, R.J. Newbrander, M. Baram. Evaluating diagnostic markers to predict acute cholecystitis in critically ill patients prior to placement of a percutaneous cholecystostomy. *J. Emerg. Med. Trauma Surg Care.* 2017; 4: 018.

104.F. Forsberg, M. Stanczak, A. Lyshchik, D. Loren, P. O'Kane, A. Siddiqui, T.E. Kowalski, C. Miller, T.B. Fox, J.B. Liu, J.R. Eisenbrey. Subharmonic and endoscopic contrast imaging of pancreatic masses- a pilot study. *J. Ultrasound Med.* 2018; 37(1): 123-129.

105.K. Nam, J.R. Eisenbrey, M. Stanczak, A. Sridharan, A.C. Berger, T. Avery, F. Forsberg. Preliminary experience monitoring neoadjuvant chemotherapy of breast cancer using 3D subharmonic aided pressure estimation and imaging with US contrast agents. *Radiology.* 2017. 285(1):53-62.

106.L.L. Zhang, G.M. Xia, R. Dou, J.R. Eisenbrey, J.B. Liu, X.W. Wang, L.X. Qian. Effect of a poloxamer 407-based themosensitive gel on minimization of thermal injury to the diaphragm during microwave ablation of the liver. *World J Gastroenterol.* 2017; 23(12):2141-48.

107.V.G. Halldorsdottir, J.K. Dave, A. Marshall, A.I. Forsberg, T.B. Fox, J.R. Eisenbrey, P. Machado, J.B. Liu, D.A. Merton, F. Forsberg. Subharmonic aided pressure estimation for monitoring interstitial fluid pressure in tumors: calibration and treatment with paclitaxel in breast cancer xenografts. *Ultrasound Med. Biol.* 2017; 43(7):1401-10.

108.L.J. Jablonowski, D. Alfego, J.I. Andorko, J.R. Eisenbrey, N. Teraphongphom, M.A. Wheatley. Balancing stealth and echogenic properties in an ultrasound contrast agent with drug delivery potential. *Biomaterials.* 2016; 103:197-206.

109.I. Gupta, J.R. Eisenbrey, M. Stanczak, A. Sridharan, J.K. Dave, J.B. Liu, C. Hazzard, K. Wallace, F. Flemming. Effect of pulse shaping on subharmonic aided pressure estimation in vitro and in vivo. *J. Ultrasound Med*. 2017; 36(1):3-11.

110.A. Gupta, M.A. Forsberg, K. Dulin, S. Jaffe, J.K. Dave, V.G. Halldorsdottir, A. Marshall, A.I. Forsberg, J.R. Eisenbrey, P. Machado, T.B. Fox, J.B. Liu, F. Forsberg. Comparing quantitative immunohistochemical markers of angiogenesis to contrast-enhanced subharmonic imaging. *J. Ultrasound Med.* 2016; 35(9): 1839-47.

111. J.R. Eisenbrey, J.K. Dave, F. Forsberg. Recent technological advancements in breast ultrasound. *Ultrasonics.*2016; 70:183-90.

112. A. Sridharan, J.R. Eisenbrey, J.K. Dave, F. Forsberg. Quantitative nonlinear contrast-enhanced ultrasound of the breast. *AJR Am. J. Roentgenol.* 2016; 207(2): 274-81.

113. M. Stanczak, A. Lyshchik, C.M. Shaw, F. Forsberg, J.R. Eisenbrey. Contrast-enhanced sonography and fusion technology for assessment of an embolized renal angiomyolipoma. *J Ultrasound Med*. 2016; 35(10): 2292-5.

114. N. Teraphongphon, P. Chhour, J.R. Eisenbrey, P.C. Naha, W.R.T. Witschey, L. Jablonowski, B. Opasanont, D.P. Cormode, M.A. Wheatley. Nanoparticle loaded polymeric microbubbles as contrast agents for multimodal imaging. *Langmuir*. 2015; 31(43):11858-67.

115. L. Albala, U. Ercan, S.G. Joshi, J.R. Eisenbrey, N. Teraphongphon, M.A. Wheatley. Preservation of imaging capability in sensitive ultrasound contrast agents after indirect plasma sterilization. *Int. J. Pharm.* 2015; 494:146-51.

116. M. Dahibawkar, M.A. Forsberg, A. Gupta, S. Jaffe, K. Dulin, J.R. Eisenbrey, V.G. Halldorsdottir, A.I. Forsberg, J.K. Dave, A. Marshall, P.Machado, T.B. Fox, J.B. Liu, F. Forsberg. High and low frequency subharmonic imaging of angiogenesis in a murine breast cancer model. *Ultrasonics.* 2015; 62:50-5.

117. A. Sridharan, J.R. Eisenbrey, P. Machado, H. Ojeda-Fournier, A. Wilkes, A. Sevrukov, R. Mattrey, F. Forsberg. Quantitative analysis of vascular heterogeneity in breast lesions using contrast-enhanced three-dimensional harmonic and subharmonic ultrasound imaging. *IEEE Trans. Ultrason. Ferroelectr. Freq. Control.* 2015; 62(3):502-10.

118. J.R. Eisenbrey, A. Daecher, M.R. Kramer, F. Forsberg. Effects of needle and catheter size on commercially available ultrasound contrast agents. *J. Ultrasound Med.* 2015; 34(11):1961-8.

119. J.R. Eisenbrey, C.M. Shaw, A. Lyshchik, P. Machado, C.D. Lallas, E.J. Trabulsi, D.A. Merton, T.B. Fox, J.B. Liu, D.B. Brown, F. Forsberg. Contrast-enhanced subharmonic and harmonic ultrasound of renal masses undergoing percutaneous cryoablation. *Acad. Radiol*. 2015; 22(7):820-6.

120. J.R. Eisenbrey, A. Marshall, D.A. Merton, J.B. Liu, T.B. Fox, A. Sridharan, F. Forsberg. Comparison of photoacoustically derived hemoglobin and oxygenation measurements with contrast enhanced ultrasound estimated vascularity and immunohistochemical staining in a breast cancer model. *Ultrason. Imaging.* 2015; 37(1):42-52.

121. J.R. Eisenbrey, L. Albala, M.R. Kramer, N. Daroshefski, D. Brown, J.B. Liu, M. Stanczak, P. O'Kane, F. Forsberg, M.A. Wheatley. Development of an ultrasound sensitive oxygen carrier for oxygen delivery to hypoxic tissue. *Int. J. Pharm.* 2015; 478(1):361-7.

122. J.R Eisenbrey, A. Sridharan, J.B. Liu, F. Forsberg. Recent experiences and advances in contrast-enhanced subharmonic ultrasound. *Biomed Res Int.* 2015; 640397.

123. C.M. Shaw, J.R. Eisenbrey, A. Lyshchik, P. O'Kane, D.A. Merton, P. Machado, L. Pino, D.B. Brown, F. Forsberg. Contrast enhanced ultrasound evaluation of residual blood flow to hepatocellular carcinoma after treatment with transarterial chemoembolization using drug eluting beads: a prospective study. *J. Ultrasound Med.* 2015; 34(5):859-67.

124. P. Machado, J.R. Eisenbrey, B. Cavanaugh, F. Forsberg. Microcalcifications versus artifacts: initial evaluation of a new ultrasound image processing technique to identify breast microcalcifications in a screening population. *Ultrasound Med. Biol.* 2014; 40(9):2321-4.

125. M.R. Rabinowitz, D.A. Merton, J.B. Liu, S. Saxena, J. Pluta, J.R .Eisenbrey, A.L. Baker, M.P. Rabinowitz, S. Lally, D. Cognetti, B.B. Goldberg, E.A. Pribitkin, J.M. Curry. Contrast-enhanced ultrasound guided sentinel lymph node biopsy of the ocular conjunctiva. *Laryngoscope.* 2014 124(11):2531-6.

126. V.G. Halldorsdottir, J.K. Dave, J.R. Eisenbrey, P. Machado, H.J. Zhao, J.B. Liu, D.A. Merton, F. Forsberg. Subharmonic aided pressure estimation for monitoring interstitial fluid pressure in tumors - in vitro and in vivo proof of concept. *Ultrasonics* 2014: 54(7):1938-44.

127. J.B. Liu, D.A. Merton, A.C. Berger, F. Forsberg, A. Witkiewicz, H. Zhao, J.R. Eisenbrey, T.B. Fox, B.B. Goldberg. Contrast-enhanced sonography for detection of secondary lymph nodes in a melanoma tumor animal model. *J. Ultrasound Med.* 2014; 33(6):939-47.

128. J.R. Eisenbrey, C.C. Wilson, R.J. Ro, T.B. Fox, J.B. Liu, S.Y. Chiou, F. Forsberg. Correlation of ultrasound contrast agent derived blood flow parameters with immunohistochemical angiogenesis markers in murine xenograft tumor models. *Ultrasonics*, 2013; 53(7):1384-91.

129. A. Sridharan, J.R. Eisenbrey, P. Machado, J.B. Liu, V.G. Halldorsdottir, J.K. Dave, H. Zhao, Y. He, S. Park, K. Wallace, K.E. Thomenius, F. Forsberg. Perfusion estimation using contrast enhanced three-dimensional subharmonic ultrasound imaging: an in vivo study. *Investigative Radiology*, 2013; 48(9):654-60.

130. J.R. Eisenbrey, J.K. Dave, V.G. Halldorsdottir, D.A. Merton, C. Miller, J.M. Gonzalez, P. Machado, S. Park, S. Dianis, C.L. Chalek, C.E. Kim, K.E. Thomenius, D.B. Brown, V. Navarro, F. Forsberg. Chronic liver disease: noninvasive subharmonic aided pressure estimation of hepatic venous pressure gradient. *Radiology*, 2013; 268(2):581-8.

131. J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, D.A. Merton, J.B. Liu, P. Machado, H. Zhao, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, D.B. Brown, F. Forsberg. On the implementation of an automated acoustic output optimization for subharmonic aided pressure estimation. *Ultrasonics*, 2013; 53(4):880-8.

132. A. Sridharan, J.R. Eisenbrey, P. Machado, E.D. deMuinck, M.M. Doyley, F. Forsberg. Delineation of atherosclerotic plaque using subharmonic imaging filtering techniques and a commercial intravascular ultrasound system. *Ultrason. Imaging.* 2013; 35(1):30-44.

133. J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, D.A. Merton, J.B. Liu, J.H. Zhou, H.K. Wang, S. Park, S. Dianis, C.L. Chalek, F. Lin, K.E. Thomenius, D.B. Brown, F. Forsberg. Investigating the efficacy of subharmonic aided pressure estimation for portal vein pressures and portal hypertension monitoring. *Ultrasound Med. Biol.* 2012; 38(10):1784-1798.

134. M.C. Cochran, R. Ouma, J.R. Eisenbrey, M.A. Wheatley. In vitro characterization of docetaxel loaded microbubbles for ultrasound triggered drug delivery. *Pharm. Eng.* 2012; 32(6):80-89.

135. J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, J.S. Raichlen , J.B. Liu, M. McDonald, K. Dickie, S. Wang, C. Leung, F. Forsberg. Subharmonic microbubble emissions for noninvasively tracing right ventricular pressures. *Am J Physiol Heart Circ Physiol.* 2012; 303(1):H126-H132.

136. J.R. Eisenbrey, A. Sridharan, P. Machado, V.G. Halldorsdottir, J.K. Dave, J.B. Liu, S. Park, S. Dianis, K. Wallace, K.E. Thomenius, F. Forsberg. 3D subharmonic imaging in vitro and in vivo. *Acad. Radiol.* 2012; 19(6):732-739.

137. J.K. Dave, J.B. Liu, V.G. Halldorsdottir, J.R. Eisenbrey, D.A. Merton, P. Machado, H. Zhao, J. Altemus, L. Needleman, D.B. Brown, F. Forsberg. Acute portal hypertension models in canines: low- & high- flow approaches. *Comparative Medicine*. 2012; 62(5):419-426.

138. M.A. Wheatley, M.C. Cochran, J.R. Eisenbrey, K.L. Oum. Cellular signal transduction can be induced by TRAIL conjugated to microparticles. *J. Biomed. Mater. Res. Part A.* 2012; 100(10):2602-2611.

139.P. Machado, J.R. Eisenbrey, B. Cavanaugh, F. Forsberg. New image processing technique for evaluating breast microcalcifications: a comparative study. *J. Ultrasound Med.* 2012; 31(6):885-893.

140.J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, F. Forsberg. Processing of subharmonic signals from ultrasound contrast agents to determine ambient pressures. *Ultrason. Imaging.* 2012; 34(2):81-92.

141.J.R. Eisenbrey, A. Sridharan, M.M. Doyley, E.D. deMuinck, F. Forsberg. Parametric subharmonic imaging using a commercial intravascular ultrasound scanner: an in vivo feasibility study. *J. Ultrasound Med.* 2012; 31(3):361-371.

142.J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, J.S. Raichlen , J.B. Liu, M. McDonald, K. Dickie, C. Leung, F. Forsberg. Noninvasive LV pressure estimation using subharmonic emissions from microbubbles. *JACC Cardiovasc. Imaging.* 2012(1); 5:87-92.

143.M.C. Cochran, J.R. Eisenbrey, M.C. Soulen, S.M. Schultz, R.O. Ouma, S.B. White, E.E. Furth, M.A. Wheatley. Disposition of ultrasound sensitive polymeric drug carrier in a rat hepatocellular carcinoma model. *Acad. Radiol.* 2011; 18(11):1341-1348.

144.J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, J.B. Liu, M. McDonald, K. Dickie, C. Leung, F. Forsberg. Noninvasive estimation of dynamic pressures in vitro and in vivo using the subharmonic response from microbubbles. *IEEE Trans. Ultrason. Ferroelectr. Freq. Control.* 2011; 58(10):2056-2066.

145.V.G. Halldorsdottir, J.K. Dave, L.M. Leodore, J.R. Eisenbrey, S. Park, A.L. Hall, K. Thomenius, F. Forsberg. Subharmonic contrast microbubble signals for noninvasive pressure estimation under static and dynamic flow conditions. *Ultrason. Imaging.* 2011; 33(3):153-164.

146.J.R. Eisenbrey, J.K. Dave, V.G. Halldorsdottir, D.A. Merton, P. Machado, J.B. Liu, C. Miller, J.M. Gonzalez, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, D.B. Brown, V. Navarro, F. Forsberg. Simultaneous grayscale and subharmonic ultrasound imaging on a modified commercial scanner. *Ultrasonics.* 2011; 51(8):890-897.

147.M.C. Cochran, J.R. Eisenbrey, R.O. Ouma, M.C. Soulen, M.A. Wheatley. Doxorubicin and paclitaxel loaded microbubbles for ultrasound triggered drug delivery. *Int. J. Pharm.* 2011; 414(1-2):161-170.

148.J.R. Eisenbrey, N. Joshi, J.K. Dave, F. Forsberg. Assessment of algorithms for defining vascular architecture from subharmonic images of breast lesions. *Phys. Med. Bio.* 2011; 56(4):1-12.

149. J.R. Eisenbrey, J.K. Dave, D.A. Merton, J.P. Palazzo, A.L. Hall, F. Forsberg. Parametric imaging using subharmonic signals from ultrasound contrast agents in patients with breast lesions. *J. Ultrasound Med.* 2011; 30(1):85-92.

150. J.R. Eisenbrey, F. Forsberg. Contrast-enhanced ultrasound for molecular imaging of angiogenesis. *Eur. J. Nucl. Med. Mol. Imaging* 2010; 37 Supple:S138-46.

151. W.J. Duncanson, K. Oum, J.R. Eisenbrey, R.O. Cleveland, M.A. Wheatley, J.Y. Wong. Targeted binding of PEG-lipid modified polymer ultrasound contrast agents with tiered surface architecture. *Biotechnol. Bioeng*. 2010; 106(3):501-506.

152. J.R. Eisenbrey, O. Mualem-Burstein, R. Kambhampati, F. Forsberg, J. Liu, M.A. Wheatley. Development and optimization of a doxorubicin loaded poly(lactic acid) contrast agent for ultrasound triggered drug delivery. *J. Control. Release* 2010; 143(1):38-44.

153. J.R. Eisenbrey, M.C. Soulen, M.A. Wheatley. Delivery of encapsulated doxorubicin by ultrasound mediated size reduction of drug loaded polymer contrast agents. *IEEE Trans. Biomed. Eng.* 2010; 57(1):24-8.

154. J.R. Eisenbrey, J. Hsu, M.A. Wheatley. Sterilization of poly lactic acid ultrasound contrast agents with oxygen plasma: surface modification and implications for drug delivery. *Ultrasound Med. Biol*. 2009; 35(11):1854-62.

155. J.R. Eisenbrey, P. Huang, J. Hsu, M.A. Wheatley. Ultrasound triggered cell death in vitro with doxorubicin loaded poly lactic acid contrast agents. *Ultrasonics* 2009; 49(8):628-633.

156. J.R. Eisenbrey, O. Mualem-Burstein, M.A. Wheatley. Effect of molecular weight and end-capping on poly (lactic-co-glycolic acid) ultrasound contrast agents. *Poly. Eng. & Sci.* 2008; 48(9):1785-92.

157. J.R. Eisenbrey, P. Huang, M.C. Soulen, M.A. Wheatley. Doxorubicin loaded contrast agents for ultrasound triggered drug delivery: importance of process parameters. *Pharm. Eng.* 2008; 28 (3):70-78.

158. X. Wang, J.R. Eisenbrey, M. Zeitz, J.Q. Sun. Multi-stage regression analysis of acoustical properties of polyurethane foams. *J. Sound Vibr.* 2004; 273(4-5):1109-17.

Conference Proceedings and Abstracts:

1. A. Tam, C.E. Wessner, G. Koenig G, J.R. Eisenbrey. Diagnosis of small intestinal ischemia through parametric mapping using contrast-enhanced ultrasound. *Prog AIUM.* March 2023.

2. Q. Lacerda, H. Falatah, B. Oeffinger, J. B. Liu, C. E. Wessner, D. B. Leeper, F. Forsberg, P. O'Kane, M. A. Wheatley, J. R. Eisenbrey. Improved tumor radiosensitization following administration of ultrasound sensitive lonidamine-loaded oxygen microbubbles. *J Ultrasound Med*, 2023. In press.

3. Q. Lacerda, H. Falatah, J. B. Liu, C. E. Wessner, B. Oeffinger, D. B. Leeper, F. Forsberg, P. O'Kane, M. A. Wheatley, J. R. Eisenbrey. Effect of tumor radiosensitization following administration of ultrasound sensitive lonidamine-loaded oxygen microbubbles. Accepted for publication in *Proc 28th Eu Symp Ultrasound Contrast Imag*, pp. 153-156, 2023.

4. J. R. Eisenbrey, F. Forsberg, C. E. Wessner, L. J. Delaney, K. Bradigan, A. Lyshchik, P. O'Kane, J. B. Liu, J. Civan, K. Anton, S. Topper, C. M. Shaw. Ultrasound-triggered microbubble destruction augmentation of tumor radioembolization. *Proc 28th Eu Symp Ultrasound Contrast Imag*, pp. 21-23, 2023.
5. J. Posey III, P. Machado, J. R Eisenbrey, B. Bashir, P. Mille, A. BasuMallick, R. Singla, S. Kotopoulis, I. K. Nordaas, A. M. Trelsgård, T. Jouleh, G. Dimcevski, O. H. Gilja, F. Forsberg. Trial in progress: Sonoporation for disrupting the pancreatic cancer microenvironment to enhance chemotherapy delivery and improve outcomes. Accepted for publication in *Proc. ASCO:GI*, 2023.

6. A. Tahmasebi, F. Yang, C. E. Wessner, S. Wang, J. B. Liu, F. Forsberg, J. Civan, F. Guglielmo, J. R. Eisenbrey. Deep learning for detection of nonalcoholic fatty liver disease on B-mode ultrasound. Accepted for publication in *Proc. CMIMI*, 2022

7. C. Clark, C. E. Wessner, S. Wang, A. Denisenko, A. Shumaker, J. Leong, A, Quinn, E, Mann, L. Glick, T. M. Han, K. Nam, K. Smentkowski, J. R. Eisenbrey, L. Gomella, E J. Trabulsi, C. D. Lallas, M. Mann, J. R. Mark, F. Forsberg, A. Lyshchik, E. Halpern, T. Chandrasekar. Contrast-enhanced ultrasonography for the evaluation of complex renal cysts. *J Urol*, vol. 207, Suppl 5, pp. e570, 2022.

8. A. Tahmasebi, F. Yang, C. E. Wessner, S. Wang, J. B. Liu, F. Forsberg, J. Civan, F. Guglielmo, J. R. Eisenbrey. Artificial intelligence for detection of nonalcoholic fatty liver disease on B-mode ultrasound. Accepted for publication in *AJR*, 2022.

9. C. E. Wessner, C. Clark, S. Wang, A. Denisenko, A, Quinn, E. Mann, L. Glick, T. M. Han, E. J. Trabulsi, C. D. Lallas, J. R. Mark, F. Forsberg, J. B. Liu, T. Chandrasekar, J. R. Eisenbrey. Evaluation of complex renal cysts using quantitative 2D and 3D contrast-enhanced ultrasound. *J Ultrasound Med*, vol. 41(Suppl), pp. S28 – S29, 2022.

10. Q. Lacerda, A. Rochani, B. Oeffinger, J. B. Liu, A. Tahmasebi, H. A. Falatah, P. Lee, D. B. Leeper, F. Forsberg, P. O'Kane, G. Kaushal, M. A. Wheatley, J. R.

Eisenbrey. Fabrication and *in vivo* tumor oxygenation of lonidamine-loaded oxygen microbubbles. *J Ultrasound Med*, vol. 41(Suppl), pp. S29 – S30, 2022.

11. Q. Lacerda, A. Rochani, B. Oeffinger, J. B. Liu, A. Tahmasebi, H. Falatah, P. Lee, D. B. Leeper, F. Forsberg, P. O'Kane, G. Kaushal, M. A. Wheatley, J. R. Eisenbrey. *In vivo* biodistribution study with lonidamine-loaded oxygen microbubbles. *J Ultrasound Med*, vol. 41(Suppl), pp. S30 – S31, 2022.

12. P. Machado, J. B. Liu, J. R. Eisenbrey, S. Gummadi, T. Kowalski, R. Cohen, C. E. Wessner, A. Infantolino, A. Chiang, A. Schlachterman, A. R. Kumar, D. Loren, F. Forsberg. Contrast-enhanced endoscopy ultrasound evaluation of cytology positive proven sentinel lymph nodes in esophageal cancer patients. *J Ultrasound Med*, vol. 41(Suppl), pp. S27, 2022.

13. A. Tahmasebi, F. Yang, C. E. Wessner, S. Wang, J. B. Liu, F. Forsberg, J. Civan, F. Guglielmo, J. R. Eisenbrey. Artificial intelligence for detection of nonalcoholic fatty liver disease on B-mode ultrasound. *J Ultrasound Med*, vol. 41(Suppl), pp. S1 – S2, 2022.

14. H. A. Falatah, Q. Lacerda, M. Chaga, C. E. Wessner, F. Forsberg, D. B. Leeper, J. R. Eisenbrey. Activation of Definity phase change contrast agent using ionizing radiation. *J Ultrasound Med*, vol. 41(Suppl), pp. S25 – S26, 2022.

15. N. Zhao, D. Curry, R. E. Evans, J.R. Eisenbrey, F. Forsberg, J. M. Gilbertie, S. S. Dastgheyb, P. Machado, M. Stanczak, M. Harwood, N. J. Hickok, T. P. Schaer. Ultrasound restores the antibiotic susceptibility of *Staphylococcus aureus* aggregates in synovial fluid *in vitro* and *in vivo*. *Proc Orthopaedic Res Soc 68th Annual Meet*, abstract no 0932, 2022.

16. P. H. Chung, J. Y Leong, P. Machado, C. E. Wessner, E. J. Trabulsi, E. J. Halpern, J. R. Eisenbrey, F. Forsberg. Shear wave elastography: novel methods for the evaluation of urethral stricture disease. *Can J Urol*, 2022. In press.

17. F. Forsberg, C. W. Piccoli, A. Sevrukov, A. Wilkes, H. Ojeda-Fournier, R. F. Mattrey, A. Sridharan, P. Machado, M. Stanczak, D. A. Merton, K. Wallace, J. R. Eisenbrey. 3D harmonic and subharmonic US for characterizing breast lesions: a multi-center clinical trial. *Prog RSNA*, abstract no SSBR04-4, 2021.
18. J. B. Liu, J. R. Eisenbrey, S. Gummadi, T. Kowalski, R. Coben, F. Forsberg, C. E. Wessner, P. Machado, B. Venkatesan, D. Loren. Contrast-enhanced endoscopic US of sentinel lymph nodes in esophageal cancer following peri-tumoral injection. *Prog RSNA*, abstract no GI03-A, 2021.

19. P. Machado, I. Gupta, J. M. Fenkel, C. E. Wessner, S. Schultz, M. Soulen, K. Wallace, J. R. Eisenbrey, F. Forsberg. Subharmonic aided pressure estimation for diagnosing portal hypertension in patients on dialysis for chronic kidney disease. *Proc IEEE IUS*, abstract ID: 4267, 2021

20. N. Zhao, R. Evans, P. Machado, M. Stanczak, J. R. Eisenbrey, T. P. Schaer, N. J. Hickok, F. Forsberg. Acoustic mechanisms for disrupting bacterial aggregates in synovial fluid. *Proc IEEE IUS*, abstract ID: 4650, 2021.

21. Q. Lacerda, B. Oeffinger, M. A. Wheatley, D. B. Leeper, F. Forsberg, P. O'Kane, A. Rochani, G. Kaushal, J. R. Eisenbrey. Sterilization and loading approach to deliver oxygen microbubbles to hypoxic tumors. *NE Bioeng Conf*, podium presentation, 2021.

22. J. B. Liu, J. R. Eisenbrey, S. Gummadi, T. Kowalski, R. Coben, F. Forsberg, C. E. Wessner, P. Machado, B. Venkatesan, D. Loren. Contrast-enhanced endoscopic ultrasound for identification of sentinel lymph nodes in esophageal cancer: a pilot study. *Proc DDW*, Abstract no 3524346, 2021.

23. J. Y. Leong, P. Machado, C. E Wessner, E. J. Trabulsi, E. J. Halpern, F. Forsberg, J. R. Eisenbrey, P. H. Chung. Contrast-enhanced ultrasound is a novel and accurate modality to for evaluatinge urethral stricture length. *J Ultrasound Med,* vol. 40(suppl), pp:S90, 2021

24. C. E. Wessner, A. Alnemri, P. Machado, M. Torkzaban, J. Curry, A. Luginbuhl, D. Cognetti, J. B. Liu, F. Forsberg, M. Tuluc, S. Gargano, J. R. Eisenbrey. Evaluating vascularity and oxygenation in patients with head and neck squamous cell carcinoma receiving Durvalumab and Metformin: safety and preliminary feasibility. *J Ultrasound Med,* vol. 40(suppl), pp:S43, 2021.

25. A. Tahmasebi, S. Wang, C. E. Wessner, F. Guglielmo, J. Civan, A. Lyshchik, F. Forsberg, E. Qu, H. Li, J. B. Liu, J. R. Eisenbrey. Comparison of ultrasound shear wave elastography and MR elastography in patients with suspected fatty liver disease. *J Ultrasound Med,* vol. 40(suppl), pp:S25 – S26, 2021.

26. E. Savsani, C. E. Wessner, F. Forsberg, A. Lyshick, P. O'Kane, A. Tan, H. Naringrekar, R. Balasubramanya, J. Civan, S. Schultz, S. Shamimi-Noori, S. Hunt, M. C. Soulen, Y. Kono, R. Mattrey, C. M. Shaw, J. R. Eisenbrey. Utility of contrast-enhanced ultrasound in early assessment of hepatocellular carcinoma response to transarterial chemoembolization. *J Ultrasound Med,* vol. 40(suppl), pp:S20 – S21, 2021.

27. Q. Lacerda, B. Oeffinger, M. A. Wheatley, D. B. Leeper, F. Forsberg, P. O'Kane, A, Rochani, G, Kaushal, J. R. Eisenbrey. Oxygen microbubbles containing lonidamine: Effects of loading methods and sterilization on acoustic properties and encapsulation efficiency. *J Ultrasound Med,* vol. 40(suppl), pp:S19, 2021.

28. S. Wang, A. Tahmasebi, C. E. Wessner, E. Qu, H. Li, J. B. Liu, J. Civan, A. Lyshchik, F. Forsberg, J. R. Eisenbrey. Nonalcoholic fatty liver disease diagnosis on B-mode ultrasound using artificial intelligence: a prospective study. *J Ultrasound Med,* vol. 40(suppl), pp:S7, 2021.

29. M. Tantawi, L. J. Delaney, F. Forsberg, C. E. Wessner, P. Machado, A. Lyshchik, P. O'Kane, S. Gummadi, K. Anton, A. Smolock, A. Tan, C. M. Shaw, J. R. Eisenbrey. Long-term HCC response to radioemblization can be predicted within two weeks post-treatment with contrast-enhanced US. *Prog RSNA*, abstract ID: 20006993, 2020.

30. L. Glick, T. M. Han, C. Wessner, K. Nam, K. Smentkowski, J. Eisenbrey, L. G. Gomella, E. J. Trabulsi, C. D. Lallas, M. J. Mann, J. R. Mark, F. Forsberg, A. Lyshchik, E. Halpern, T. Chandrasekar. Contrast-enhanced 4D ultrasonography for the evaluation of complex renal cysts. *Can J Urol*. vol. 27, no. S5, pp. 41, 2020.

31. I. Gupta, J. R. Eisenbrey, P. Machado, M. Stanczak, C. E. Wessner, C. M. Shaw, S. Gummadi, J. M. Fenkel, A. Tan, C. Miller, J. Parent, S. Schultz, M. Soulen, C. M. Sehgal, K. Wallace, F. Forsberg. A noninvasive ultrasound based technique to estimate portal hypertension and monitor treatment response – SHAPE. *Hepatology*, vol. 72, no. 1 (Suppl), pp. 89A (abstract 121), 2020.

32. L. J. Delaney, S. Isguven, J. R. Eisenbrey, K. Fitzgerald, C. K Kepler, T. Fang, S. L. Knott, P. Machado, S. M Kurtz, N. J. Hickok, F. Forsberg. Ultrasound-sensitive prophylaxis for prevention of post-operative infection in spinal fusion surgery. *Prog XVI Mex Symp Med Phys*, pp. 27, 2020.

33. F. Forsberg, D. Curry, P. Machado, M. Stanczak, J. R. Eisenbrey, T. P. Schaer, N. J. Hickok. Disrupting biofilms in synovial fluid with ultrasound triggered microbubble destruction. *Prog XVI Mex Symp Med Phys*, pp. 18, 2020.

34. I. Gupta, J. R. Eisenbrey, M. Stanczak, P. Machado, C. Wessner, J. Fenkel, C. Shaw, S. Schultz, M. Soulen, M. Torkzaban, K. Nam, K. Wallace, F. Forsberg. Noninvassive pressure estimation with Lumason and Sonazoid microbubbles. *Prog XVI Mex Symp Med Phys*, pp. 18, 2020.

35. F. Forsberg, D. Curry, P. Machado, N. Zhao, M. Stanczak, J. R. Eisenbrey, T. P. Schaer, N. J. Hickok. Ultrasound triggered microbubble destruction for disrupting biofilms in synovial fluid. *Proc IEEE IUS*, manuscript ID 1745, 2020.

36. Q. Lacerda, B. Oeffinger, M. A. Wheatley, D. B. Leeper, F. Forsberg, P. O'Kane, A. Rochani, G. Kaushal, J. R. Eisenbrey. Incubation method for loading lonidamine in oxygen microbubbles for targeted drug delivery. *Proc IEEE IUS*, manuscript ID 1477, 2020.

37. F. Forsberg, D. Curry, P. Machado, M. Stanczak, J.R. Eisenbrey, T. Schaer, N. Hickok. Ultrasound triggered microbubble destruction for disruption of biofilms in synovial fluid. Prog of AIUM Annual Meeting, 2020.

38. I. Gupta, J. Fenkel, M. Stanczak, P. Machado, C. Shaw, S. Shamimi-Noori, M. Soulen, S. Schultz, K. Wallace, J.R. Eisenbrey, F. Forsberg, Diagnosing portal hypertension using subharmonic aided pressure estimation. Prog of AIUM Annual Meeting, 2020.

39. J.Y. Leong, P. Machado, C. Wessner, E.J. Trabulsi, E. Halpern, F. Forsberg, J.R. Eisenbrey, P. Chung. Contrast-enhanced ultrasound of urethral stricture disease: a novel method for evaluation and diagnosis. Prog of AIUM Annual Meeting, 2020.

40. C. Wessner, J.Y. Leong, M. Kramer, F. Forsberg, E. Halpern, A. Lyshchik, E.J. Trabulsi, C. Lallas, J.R. Eisenbrey. Evaluation of indeterminate renal masses using superb microvascular imaging to improve detection of vascularity. Prog of AIUM Annual Meeting, 2020.

41. L.J. Delaney, M. Aliabouzar, S. Iguven, J.R. Eisenbrey, M. Fabiilli, N. Hickok, F. Forsberg. Ultrasound-sensitive alginate hydrogel for drug delivery applications. Prog of AIUM Annual Meeting, 2020.

42. F. Forsberg, C. Piccoli, A. Sevrukov, A. Wilkes, H. Ojeda-Fournier, R.F. Mattrey, A. Sridharan, P. Machado, M. Stanczak, D. Merton, K. Wallace, J.R. Eisenbrey. 3D harmonic and subharmonic ultrasound imaging for characterizing breast lesions: a multi-center clinical trial. Prog of AIUM Annual Meeting, 2020.

43. B. Oeffinger, P. Vaidya, J.R. Eisenbrey, M.A. Wheatley. Improved fabrication method of an ultrasound contrast agent for combined oxygen and drug delivery. Prog of AIUM Annual Meeting, 2020.

44. S. Wang, S. Niu, F. Forsberg, A. Wilkes, A. Sevrukov, R.F. Mattrey, H. Ojeda-Fournier, J.R. Eisenbrey. Automated indeterminate breast lesions characterization on B-mode ultrasound imaging using a commercially available platform. Prog of AIUM Annual Meeting, 2020.

45. C. Wessner, B. Barnhart, T. Kan, J.R. Eisenbrey, R. Vadigepalli, J. Hoek. High-frequency ultrasound estimation of liver volume and physiology in rats after partial hepatectomy. Prog of AIUM Annual Meeting, 2020.

46. D. Arias, J.R. Eisenbrey, A. Kamaya, S. Gummadi, K. Bird, D. Burrowes, C. Lallas, E.J. Trabulsi, A. Lyshchik. Effects of contrast-enhanced ultrasound of indeterminate renal masses on clinical management in patients with chronic kidney disease: a multi-center retrospective analysis. Prog of AIUM Annual Meeting, 2020.

47. Q. Lacerda, B. Oeffinger, M.A. Wheatley, D. Leeper, G. Kaushal, F. Forsberg, P. O'Kane, A. Rochani, J.R. Eisenbrey. Investigating methods of lonidamine loading in oxygen microbubbles for targeted drug delivery. Prog of AIUM Annual Meeting, 2020.

48. J.R. Eisenbrey, C.E. Wessner, F. Forsberg, A. Lyshchik, P. O'Kane, A. Tan, A. Smolock, J. Civan, S. Schultz, S. Shamimi-Noori, S. Hunt, M.C. Soulen, Y. Kono, C.M. Shaw. Contrast-enhanced ultrasound evaluation of residual blood flow following HCC chemoembolization: preliminary results of a prospective multi-center clinical trial. Society of Interventional Oncology Annual Meeting. Abstract ID: 755070, 2020.

49. L.J. Delaney, A. Sevit, J.R. Eisenbrey, K. Fitzgerald, C. Kepler, T. Fang, S. Knott, P. Machado, S. Kurtz, N. Hickok, F. Forsberg. Characterization of ultrasound-triggered bulk antibiotic release from novel spinal hardware. *Proc of IEEE Ultrasonics Symp*. MoC4.1, 2019.

50. F. Forsberg, A. Sridharan, C. Piccoli, A. Sevrukov, A. Wilkes, H. Ojeda-Fournier, R.F. Mattrey, P. Machado, M. Stanczak, D. Merton, K. Wallace, J.R. Eisenbrey. Combining quantitative 3D subharmonic imaging and clinical assessments for accurate characterization of breast masses. *Proc of IEEE Ultrasonics Symp*. TuG2.2, 2019.

51. I. Oezdemir, C. Wessner, C.M. Shaw, J.R. Eisenbrey, K. Hoyt. Multiscale quantification of tumor microarchitecture for predicting therapy response using dynamic contrast-enhanced ultrasound imaging. *Proc of IEEE Ultrasonics Symp.* TuG2.1, 2019.

52. L.J. Delaney, F. Forsberg, C.E. Wessner, P. Machado, A. Lyshchik, P. O'Kane, S. Gummadi, A. Tan, C.M. Shaw, J.R. Eisenbrey. Predicting Long Term HCC Response to Radioembolization Using Contrast-Enhanced Ultrasound 1-2 Weeks Post Treatment. *Proc of IEEE Ultrasonics Symp*. WeK2.3, 2019.

53. J.Y. Leong, C. Wessner, M. Kramer, F. Forsberg, A. Lyshchik, E. Trabulsi, C. Lallas, J.R. Eisenbrey. Improved detection of indeterminate renal mass vascularity with superb microvascular imaging. J Urology; 201(S4): LBA-13, 2019.

54. C.E. Wessner, C.M. Shaw, M. Stanczak, S. Gummadi, F. Forsberg, A. Lyshchik, A. Tan, J.R. Eisenbrey. Contrast-Enhanced Ultrasound of HCC Following Chemoembolization Supports Retreatment by Identifying Residual Tumor Blood Supply [Poster]. 31st Congress of the EFSUMB Annual Conference, 2019.

55. C.E. Wessner, J.Y. Leong, M. Kramer, F. Forsberg, A. Lyshchik, M. Torkzaban, E.J. Trabulsi, C. Lallas, J.R. Eisenbrey. Improved Detection of the Vascularity Associated with Indeterminate Renal Masses Using Superb Micro-Vascular Imaging [Poster]. 31st Congress of the EFSUMB Annual Conference, 2019.

56. J.Y. Leong, C.E. Wessner, P. Machado, E.J. Trabulsi, E. Halpern, F. Forsberg, J.R. Eisenbrey, P.H. Chung. Assessing the Utility of Contrast-Enhanced Ultrasound for the Evaluation of Urethral Stricture Disease: A Pilot Study [Poster]. 31st Congress of the EFSUMB Annual Conference, 2019.

57. L.J. Delaney, A.M. Sevit, J.R. Eisenbrey, K. Fitzgerald, C.K. Kepler, T. Fang, S.L. Knott, P. Machado, S.M. Kurtz, N.J. Hickok, F. Forsberg. Ultrasound-triggered bulk antibiotic release from novel hardware in a rabbit spinal infection model. 31st Congress of the EFSUMB Annual Conference, 2019.

58. S. Gummadi, D. Loren, J.R. Eisenbrey, T. Kowalski, F. Forsberg, J.B. Liu. Endoscopic lypmphosonography of sentinel lymph nodes in esophageal cancer using Sonazoid: initial findings. 31st Congress of the EFSUMB Annual Conference, 2019.

59. I. Gupta, J.R. Eisenbrey, P. Machado, M. Stanczak, C. Wessner, S. Gummadi, C. Shaw, J. Fenkel, A. Tan, S. Schultz, M. Soulen, K. Wallace, F. Forsberg. Noninvasive diagnosis of portal hypertension using SHAPE. 31st Congress of the EFSUMB Annual Conference, 2019.

60. K. Nam, J.R. Eisenbrey, P. Machado, N. Simone, A. Sridharan, M. Stanczak, A. Berger, J. Palazzo, F. Forsberg. Early assessment of neoadjuvant chemotherapy response in breast cancer patients using 3D subharmonic aided pressure estimation. 31st Congress of the EFSUMB Annual Conference, 2019.

61. P. Machado, I. Gupta, M. Stanczak, C. Wessner, S. Gummadi, C. Shaw, S. Shamimi-Noori, S. Schultz, M. Soulen, C. Sehgal, J.R. Eisenbrey, F. Forsberg. Subharmonic contrast-enhanced ultrasound evaluation of the hepatic vein as a sign of pathophysiology changes caused by portal hypertension. 31st Congress of the EFSUMB Annual Conference, 2019.

62. L. Delaney, C. Wessner, S. Gummadi, P. Machado, F. Forsberg, A. Lyshchik, P. O'Kane, A. Tan, C.M. Shaw, J.R. Eisenbrey. Contrast-enhanced ultrasound predicts radioembolization treatment response in hepatocellular carcinoma. *Society of Interventional Oncology Annual Meeting*. Abstract ID: 609770, 2019.

63. C. Wessner, J.R. Eisenbrey, M. Stanczak, S. Gummadi, F. Forsberg, A. Lyshchik, A. Tan, C. Shaw. Can contrast-enhanced ultrasound guide TACE retreatment in patients with residual tumor vascularity? *Society of Interventional Oncology Annual Meeting*. Abstract ID: 609749, 2019.

64. R. Margolis, C. Wessner, M. Stanczak, J.B. Liu, F. Forsberg, K. Nam, J.R. Eisenbrey. Can the progression of ductal carcinoma *in situ* be monitored using photoacoustic or contrast-enhanced imaging? *Prog. AIUM*, S15, 2019.

65. C.E. Wessner, C.M. Shaw, M. Stanczak, S. Gummadi, F. Forsberg, A. Lyshchik, A. Tan, J.R. Eisenbrey. Can Contrast-Enhanced Ultrasound Identify Patent Feeding Vessels in TACE Patients with Residual Tumor Vascularity? *Prog AIUM*, S31. April 2019.

66. L.J. Delaney, A.M. Sevit, J.R. Eisenbrey, K. Fitzgerald, C. Kepler, T. Fang, S.M. Kurtz, N.J. Hickok, F. Forsberg. Ultrasound-triggered antibiotic release from novel spinal hardware in a rabbit spinal infection model. *Prog AIUM*. April 2019.

67. L.J. Delaney, C.E. Wessner, S. Gummadi, P. Machado, F. Forsberg, A. Lyshchik, P. O'Kane, A. Tan, C.M. Shaw, J.R. Eisenbrey. Contrast-enhanced ultrasound predicts long term treatment response of hepatocellular carcinoma to radioembolization. *Prog AIUM*, S38. April 2019.

68. S. Gummadi, C. Wessner, G. Koenig, P. Machado, P. O'Kane, F. Forsberg, J.R. Eisenbrey. Contrast-enhanced ultrasound in small bowel obstruction and small bowel malperfusion. *Prog AIUM*, S13. April 2019.

69. S. Gummadi, A. Lyshchik, E. Trabulsi, C. Lallas, J.R. Eisenbrey. Contrast-enhanced ultrasound in the management of indeterminate renal masses in patients with chronic kidney disease. *Prog AIUM*, S32. April 2019.

70. I. Oezdemir, C. Shaw, J.R. Eisenbrey, K. Hoyt. Improved ultrasound imaging assessment of hepatocellular carcinoma response to transarterial chemoembolization. *Prog AIUM*, S172. April 2019.

71. M.S. Carr, K. NAM, M. Stanczak, A. Lyshchik, J.B. Liu, C.M. Shaw, R.D. Adamo, C.D. Lallas, E.J. Trabulsi, F. Forsberg, J.R. Eisenbrey. Residual tumor quantification using volumetric contrast enhanced ultrasound for renal cell carcinoma ablation follow up. *Prog AIUM*, S33. April 2019.

72. S. Gummadi, N. Patel, H. Naringrekar, P. O'Kane, J. Civan, L. Needleman, A. Lyshchik, J.R. Eisenbrey. Sonographic diagnosis of nonalcoholic fatty liver disease by automated machine learning. *Prog AIUM*, S6. April 2019.

73. J.R. Eisenbrey, L.J. Delaney, S. Gummadi, C.E. Wessner, P. Machado, A. Lyshchik, P. O'Kane, J. Civan, A. Tan, F. Forsberg, C.M. Shaw. Ultrasound Triggered Microbubble Destruction for Improving HCC Radiotherapy and Predicting Long Term Treatment Response. Kavli Futures Symposiums-Ultrasound Contrast Research, Abstract 7, 2019.

74. J.R. Eisenbrey, L.J. Delaney, B. Oeffinger, R. Shraim, D.B. Leeper, P. O'Kane, J.B. Liu, F. Forsberg, M.A. Wheatley. Overcoming Hypoxia-Associated Radiotherapy Resistance Using Ultrasound Microbubbles. Kavli Futures Symposiums- Ultrasound Contrast Research, Abstract 25, 2019.

75. J.R. Eisenbrey, L.J. Delaney, S. Gummadi, C.E. Wessner, P. Machado, A. Lyshchik, P. O'Kane, J. Civan, A. Tan, F. Forsberg, C.M. Shaw. Augmenting Radiotherapy with Ultrasound Sensitive Microbubbles. 2019 European Symposium on Contrast Ultrasound, p.8, 2019.

76. I. Oezdemir, C. Shaw, J.R. Eisenbrey, K. Hoyt. Improved quantitative contrast-enhanced ultrasound imaging of hepatocellular carcinoma response to transarterial

chemoembolization. IEEE International Symposium on Biomedical Imaging, 1737-1740, 2019.

77. R. Margolis, C. Wesnner, M. Stanczak, J.B. Liu, F. Forsberg, K. Nam, J.R. Eisenbrey. Evaluating ductal carcinoma in situ progression via tissue oxygenation and perfusion using photoacoustic and contrast-enhanced US. *Prog. RSNA*, SSA20-05, 2018.

78. K. Nam, R. Stapp, J. B. Liu, M. Stanczak, F. Forsberg, Z. Lin, Z. Zhu, J. Li, C. Solomides, J. R. Eisenbrey, A. Lyshchik. Molecular US characterization of metastatic sentinel lymph nodes in melanoma. *Prog RSNA*, abstract no. MI209-SD-MOA2, 2018.

79. P. Machado, I. Gupta, M. Stanczak, C. Wessner, S. Gummadi, C. Shaw, S. Shamimi-Noori, S.M. Schultz, M.C. Soulen, C. Sehgal, J.R. Eisenbrey, F. Forsberg. SHI CEUS signals in the hepatic vein are in an indirect sign of pathophysiology changes caused by portal hypertension. *Prog. RSNA*, SSE07-06, 2018.

80. I. Oezdemir, C. Shaw C, J.R. Eisenbrey, K. Hoyt. Improved quantification of microvascular structures in contrast-enhanced ultrasound images. Kavli Futures Symposium – Ultrasound Contrast Research, Abstract 4, 2019.

81. J.R. Eisenbrey. Ultrasound Contrast Agents for Augmenting Radiotherapy. World Molecular Imaging Congress, UMIDD Session 1, Abstract ID 69, 2018.

82. Calio B, Eisenbrey JR, Li J, Lyshchik A, Stanczak M, Shaw CM, Adamo R, Liu JB, Forsberg F, Lallas C, Trabulsi E. Contrast enhanced ultrasound for detection of renal cell carcinoma recurrence following ablation. *J Urology*, 199(42):e733, 2018.

83. Nam K, Stanczak M, Machado P, Lyshchik A, Kono Y, Forsberg F, Shaw CM, Eisenbrey JR. Quantification of Residual HCC Enhancement Following Transarterial Chemoembolization using 2D and 3D Contrast Enhanced Ultrasound. *Prog AIUM*, 2018.

84. Margolis R, Stanczak M, Liu JB, Li J, Forsberg F, Nam K, Eisenbrey JR. Photoacoustic and Contrast-enhanced Ultrasound of the Mammary Gland to Monitor the Role of Physical Exercise on Tissue Oxygenation and Perfusion. *Prog AIUM*, 2018.

85. Nam K, Eisenbrey JR, Machado P, Simone N, Sridharan A, Stanczak M, Berger AC, Palazzo JP, Forsberg F. Prediction of Neoadjuvant Chemotherapy Response of Breast Cancer using 3D Subharmonic Aided Pressure Estimation. *Prog AIUM*, 2018.

86. Nam K, Liu JB, Eisenbrey JR, Li Z, Wei Y, Machado P, Li J, Stanczak M, Forsberg F. 3D Subharmonic Aided Pressure Estimation for Assessing Arterial Plaques. *Prog AIUM*, 2018.

87. Eisenbrey JR, Stanczak M, Forsberg F, Mendoza-Ballesteros F, Lyshchik A. Comparison of Photoacoustic Derived Fingertip Oxygenation Levels from Raynaud's Patients and Healthy Volunteers. *Prog AIUM*, 2018.

88. Li J, Needleman L, Liu JB, Lyshchik A, Stanczak M, Forsberg F, Mcalister J, Eisenbrey JR. Are Parsed Contrast-enhanced Ultrasound Exams as Accurate as Cine Loops: Preliminary Findings. *Prog AIUM*, 2018.

89. Wheatley MA, Jablonowski LJ, Eisenbrey JR, Cochran MC, Teraphongphom NT. Evolution of a polymer-shelled ultrasound contrast agent. *Proc Eur Symposium on Contrast Imaging. 2018.*

90. J. Li, L. Jablonowski, J.R. Eisenbrey, F. Forsberg, A. Siddiqui, J.B. Liu. Time intensity curve analysis of subharmonic transabdominal and harmonic endoscopic contrast-enhanced ultrasound of pancreatic masses. *Proc of IEEE Ultrasonics Symp.* 2017:1117.

91. J.R. Eisenbrey, R. Shraim, J.B. Liu, J. Li, M. Stanczak, B. Oeffinger, F. Forsberg, P. O'Kane, M.A. Wheatley. Sensitization of hypoxic tumors to radiation therapy using ultrasound sensitive oxygen microbubbles. *IEEE Ultrasonics Symp. 2017; 4G-1*.

92. K. Nam, M. Stanczak, F. Forsberg, C.M. Shaw, J.R. Eisenbrey. Evaluation of hepatocellular carcinoma transarterial chemoembolization using 3D contrast enhanced ultrasound time-intensity curve analysis. *Proc of IEEE Ultrasonics Symp.* 2017:798.

93. A. Sridharan, J.R. Eisenbrey, M. Stanczak, P. Machado, A. Wilkes, A. Sevrukov, H. Ojeda-Fournier, R. Mattrey, K. Wallace, F. Forsberg. Quantitative 3D subharmonic imaging for characterizing breast lesions. *Proc of IEEE Ultrasonics Symp.* 2017:1020.

94. L. Jablonowski, J.R. Eisenbrey, D. Brown, M. Stanczak, J.B. Liu, J. Li, F. Forsberg, M.A. Wheatley. Ultrasound microbubble targeted gemcitabine delivery for pancreatic cancer treatment. *Proc of IEEE Ultrasonics Symp.* 2017:1120.

95. I. Gupta, J.R. Eisenbrey, M. Stanczak, C.M. Shaw, J. Fenkel, S. Shamimi-Noori, M. Soulen, C. Sehgal, S. Schultz, S. Hunt, K. Wallace, F. Forsberg. On factors impacting subharmonic aided pressure estimations (SHAPE). *Proc of IEEE Ultrasonics Symp.* 2017:1164.

96. K. Nam, M. Stanczak, F. Forsberg, J. B. Liu, J.R. Eisenbrey, C.C. Solomides, A. Lyshchik. Dual-targeted contrast agents for characterization of melanoma sentinel lymph nodes. *Prog AIUM*, abstract ID 404337, 2017.

97. P. Machado, M. Stanczak, J. B. Liu, J.R. Eisenbrey, L. Needleman, W. Kraft, J. Moore, K. Vizza, F. Forsberg. Dose finding, cross over study of subdermal ultrasound contrast agent injection for breast imaging in healthy volunteers. *Prog AIUM*, abstract ID 404324, 2017.

98. A. Sridharan, J.R. Eisenbrey, M. Stanczak, P. Machado, A. Wilkes, A. Sevrukov, H. Ojeda-Fournier, R.F. Mattrey, K. Wallace, F. Forsberg. Characterizing breast lesions with contrast-enhanced 3D subharmonic ultrasound imaging. *Prog AIUM*, abstract ID 432461, 2017.

99. M.S. Carr, K. Nam, M. Stanczak, A. Lyshchik, C.M. Shaw, J.B. Liu, C.D. Lallas, E.J. Trabulsi, F. Forsberg, J.R. Eisenbrey. Volumetric contrast enhanced ultrasound time-intensity curve analysis for monitoring renal cell carcinoma post-ablation. *Prog AIUM*, abstract ID 404431, 2017.

100. J.R. Eisenbrey, M. Stanczak, F. Forsberg, A. Lyshchik, J. Civan, S. Shamimi-Noori, C. M. Shaw. Volumetric contrast-enhanced ultrasound evaluation of hepatocellular carcinoma following transarterial chemoembolizaion. *Prog AIUM*, abstract ID 404318, 2017.

101. I. Gupta, J.R. Eisenbrey, M. Stanczak, C. M. Shaw, S. Schultz, S. Shamimi Noori, S. Hunt, M. Soulen, J. Fenkel, C. Sehgal, K. Wallace, F. Forsberg. Improved diagnosis of portal hypertension using subharmonic aided pressure estimation. *Prog AIUM*, abstract ID 404334, 2017.

102. A. Daecher, M. Stanczak, J. B. Liu, J. Zhang, S. Du, D. B. Leeper, F. Forsberg, J.R. Eisenbrey. Localized microbubble cavitation-based antivascular therapy for improving HCC treatment response to radiotherapy. *Prog AIUM*, abstract ID 404303, 2017.

103. J.R. Eisenbrey, R. Shraim, J.B. Liu, M. Stanczak, L. Jablonowski, F. Forsberg, J. Li, L. Sang, B. Oeffinger, P. O'Kane, M. A. Wheatley. Overcoming tumor hypoxia with ultrasound-sensitive oxygen microbubbles. *Prog AIUM*, abstract ID 404528, 2017.

104. M. Carr, C.M. Shaw, K. Nam, M. Stanczak, A. Lyshchik, F. Forsberg, J.B. Liu, C. Lallas, E.J. Trabulsi, J.R. Eisenbrey. Monitoring postablation RCC using 3D CEUS and time intensity curve analysis: preliminary results. J Vasc Interv Radiol. 2017; 28(2):S16

105. S. J. Back, M. R. Kramer, N. Bhagat, F. Forsberg, L. Poznick, J. R. Eisenbrey, K. Darge. Don't burst your bubbles! How contrast administration can affect pediatric contrast enhanced ultrasound. Accepted for publication in *Proc Soc Ped Rad*, 2017; Abstract ID: 2642922.

106. K. Fitzgerald, C. Kepler, L. Jablonowski, J.R. Eisenbrey, F. Forsberg, S. Kurtz, N. Hickok. PEEK Staphylococcus aureus biofilms: effects of media. *Int PEEK Meetg*, 2017.

107. M.R. Kramer, N. Bhagat, F. Forsberg, S. J. Back, L. Poznick, K. Darge, J.R. Eisenbrey. Influence of administration setups on microbubble enhancement: a focus on pediatric applications. *Prog AIUM*, abstract ID 404317, 2017.

108. S. Shamimi-Noori, J.R. Eisenbrey, M. Stanczak, F. Forsberg, A. Lyshchik, C.M. Shaw. 4D contrast-enhanced ultrasound monitoring of hepatocellular carcinoma after transarterial hepatic chemoembolization. J Vasc Interv Radiol. 2017; 28(6):e67.

109. I. Gupta, J. R. Eisenbrey, M. Stanczak, A. Sridharan, J. K. Dave, J. B. Liu, C. Hazard, C. M. Shaw, S. Shamimi-Noori, J. M. Fenkel, M. Soluen, C. M. Sehgal, K. Wallace, F. Forsberg. Pulse shaping for improved diagnosis of portal hypertension using subharmonic aided pressure estimation. Hepatology. 2016; 64(S1):1045A.

110. K. Nam, M. Stanczak; F. Forsberg, J.B. Liu, J.R. Eisenbrey, C.C. Solomides, A. Lyshchik. Characterization of Sentinel Lymph Nodes using Targeted Ultrasound Contrast Agents. *Prog. RSNA*, Abstract ID: 16013381, 2016.

111. K. Nam, M. Stanczak, A. Sridharan;, A.C. Berger, T. Avery, J.R. Eisenbrey, F. Forsberg Monitoring Neoadjuvant Chemotherapy Response of Breast Cancer using 4D Subharmonic Aided Pressure Estimation and Imaging with Ultrasound Contrast Agents. *Prog. RSNA*, Abstract ID: 16011187, 2016.

112. M.S. Carr, K. Nam, M. Stanczak, A. Lyshchik, C.M. Shaw, J.B. Liu, C.D. Lallas, E.J. Trabulsi, F. Forsberg, J.R. Eisenbrey. Characterizing renal cell carcinoma ablation cavities using 3D contrast enhanced ultrasound time intensity curve analysis. *Proc. IEEE Ultrason. Symp.* 2016.

113. K. Nam, M. Stanczak, A. Sridharan;, A.C. Berger, T. Avery, J.R. Eisenbrey, F. Forsberg. 4D subharmonic aided pressure estimation for monitoring neoadjuvant chemotherapy response of breast cancer. *Proc. IEEE Ultrason. Symp.* 2016.

114. K. Nam, M. Stanczak; F. Forsberg, J.B. Liu, J.R. Eisenbrey, C.C. Solomides, A. Lyshchik. Characterization of sentinel lymph nodes using dual-targeted microbubbles. *Proc. IEEE Ultrason. Symp.* 2016.

115. C. Finley, M. Stanczak, S. Zhang, Y. Wang, P. Wang, J.B. Liu, F. Forsberg, J.R. Eisenbrey. Effects of ultrasound coupling gel on photoacoustic signal attenuation. *Proc. IEEE Ultrason. Symp.* 2016.

116. A. Daecher, F. Forsberg, J.R. Eisenbrey. Development of a temperature sensitive face mask for identification and triage of febrile patients. Sigma Xi Philadelphia Research Meeting, 2016.

117. A. Shaheen, J. Marks, J.R. Eisenbrey, N. Rahman, R Newbrander, C.M. Shaw, M. Baram. Evaluating diagnostic markers in critically ill patients with acute cholecystitis: can we predict patients who need a percutaneous cholecystostomy? Annual Meeting of the American College of Surgeons, 2016.

118. K. Puranik, M. Stanczak, F. Forsberg, J.B. Liu, J.R. Eisenbrey, A. Lyshchik. Molecular imaging with dual-targeted microbubbles for characterization of sentinel lymph nodes. *J. Ultrasound Med*. 35:S55, 2016.

119. F. Forsberg, M. Stanczak, A. Lyshchik, D. Loren, P. O'Kane, A. Siddiqui, T.E. Kowalski, C. Miller, T.B. Fox, J.B. Liu, J.R. Eisenbrey. Characterization of pancreatic masses with subharmonic and endoscopic contrast ultrasound. *J. Ultrasound Med*. 35:S29, 2016.

120. F. Forsberg, M. Stanczak, E. Hsu, A. Sridharan, A.C. Berger, T. Avery, J.R. Eisenbrey. 4D subharmonic contrast imaging for monitoring neoadjuvant chemotherapy of breast cancer. *J. Ultrasound Med*. 35:S28, 2016.

121. V. Halldorsdottir, J.K. Dave, A. Marshall, A.I. Forsberg, P. Machado, T.B. Fox, J.B. Liu, J.R. Eisenbrey, F. Forsberg. Subharmonic pressure estimation in breast tumors: calibration and treatment. *J. Ultrasound Med*. 35:S27-28, 2016.

122. P. Machado, J.R. Eisenbrey, M. Stanczak, B.C. Cavanaugh, L.M. Zorn, F. Forsberg**.** A novel ultrasound image processing technique for detecting microcalcifications in surgical breast specimens. *J. Ultrasound Med*. 35: S91 – S92, 2016.

123. P. Machado, M. Stanczak, J.R Eisenbrey, B.C. Cavanaugh, A. Daecher, L.M. Zorn, F. Forsberg. Characterizing breast microcalcifications using a new ultrasound image processing technique. *J. Ultrasound Med.* 35:S27, 2016.

124. J.R. Eisenbrey, M. Stanczak, A. Lyshchik, C.M. Shaw, J.B. Liu, C. Lallas, E.J. Trabulsi, F. Forsberg. Two and three-dimensional contrast-enhanced ultrasound monitoring of renal cell carcinoma recurrence after cryoablation. *J. Ultrasound Med.* 35: S59, 2016.

125. R. Shraim, M.A. Wheatley, P. O'Kane, F. Forsberg, J.R. Eisenbrey. Effects of fabrication methods on the acoustic properties on encapsulated oxygen microbubbles. *J. Ultrasound Med.* 35:S37, 2016.

126. S. Dastgheyb, J.R. Eisenbrey, M. Stanczak, F. Forsberg, J.B. Liu, S. Zhang, C. Zhang, N.J. Hickok. Microbubble cavitation for disruption and antibacterial sensitization of staphylococcus aureus biofilms in synovial fluid. *Prog. RSNA*, PH241-SD-TUA2, 2015.

127. M. Stanczak, J. Chen-Roetling, J.R. Eisenbrey, J.B. Liu, F. Forsberg, R. Regan. High frequency US evaluation of intracerebral hemorrhage in a small animal model. *Prog. RSNA*, PH276-SD-THA3, 2015.

128. M. Stanczak, J.A. Hess, J.B. Patton, J.R. Eisenbrey, J.B. Liu, A. Torigian, D. Abraham, F. Forsberg. Development of a small animal model of onchocerciasis: verification with high-frequency ultrasound imaging. *Ultrasound Med Biol*, vol. 41, no 4S, pp. S12, 2015.

129. N. Chernets, J.R. Eisenbrey, J.B. Liu, Q.S. Zhang, D.S. Kurpad, T.A. Freeman, F. Forsberg. Photoacoustic imaging of vascular oxygenation following dielectric barrier discharge plasma wound treatment. *Ultrasound Med Biol*, vol. 41, no 4S, pp. S13, 2015.

130. J.R. Eisenbrey, J.B. Liu, T.B. Fox, F. Forsberg, S.G. Rao, H. Singh H. High frequency ultrasound imaging of Drosophila for cardiac research applications. *Ultrasound Med Biol*, vol. 41, no 4S, pp. S121, 2015.

131. J.R. Eisenbrey, J.B. Liu, M. Stanczak, L. Albala, M. Daroshefski, D. Brown, X.H. Wang, S.S. You, P. O'Kane, M.A. Wheatley, F. Forsberg. Ultrasound triggered oxygen delivery to hypoxic tumors. *Ultrasound Med Biol*, vol. 41, no 4S, pp. S30, 2015.

132. J. R. Eisenbrey, A. Daecher, M. R. Kramer, F. Forsberg. Effects of needle and catheter size on commercially available ultrasound contrast agent enhancement in vitro. *Ultrasound Med Biol*, vol. 41, no 4S, pp. S134, 2015.

133. A. Sridharan, J. R. Eisenbrey, M. Stanczak, P. Machado, H. Ojeda-Fournier, R. F. Mattrey, A. Wilkes, A. Sevrukov, K. Wallace, C. L. Chalek, K.E. Thomenius, F. Forsberg. Parametric volumes for visualizing breast lesion vascularity using 3D subharmonic imaging. *Ultrasound Med Biol*, vol. 41, no 4S, pp. S76-S77, 2015.

134. J.R. Eisenbrey, J.B. Liu, A. Sridharan, F. Forsberg. Contrast-enhanced subharmonic imaging. *Ultrasound Med Biol*, vol. 41, no 4S, pp. S93, 2015.

135. F. Forsberg, M. Stanczak, D. Loren, T.B. Fox, T.E. Kowalski, A. Siddiqui, C. Miller, J.B. Liu, J.R. Eisenbrey. Subharmonic and Endoscopic Contrast Imaging of pancreatic masses. *Ultrasound Med Biol*, vol. 41, no 4S, pp. S99, 2015.

136. J. R. Eisenbrey, C.M. Shaw, A. Lyshchik, P. Machado, C.D. Lallas, E.J. Trabulsi, D.A. Merton, T.B. Fox, J.B. Liu, D.B. Brown, F. Forsberg. Characterization of renal masses with harmonic and subharmonic contrast-enhanced ultrasound. *Proc. IEEE Ultrason. Symp.*193-196, 2014.

137. J.R Eisenbrey, P. Machado, A. Sridharan, H. Ojeda-Fournier, A. Wilkes, A. Sevrukov, R.F. Mattrey, F. Forsberg. 4D harmonic and subharmonic contrast-enhanced ultrasound for the characterization of breast masses: update on a multi-center prospective study. *Proc. IEEE Ultrason. Symp.* 189-192, 2014

138. A. Sevit, F. Forserg, J.R. Eisenbrey, K.E. Fitzgerald, S. Kurtz, C. Kepler, N. Hickok. Development of an ultrasound-sensitive antimicrobial platform for reducing infection after spinal stabilization surgery. *Proc. IEEE Ultrason. Symp.*1045-1048, 2014.

139. A. Sridharan, J.R. Eisenbrey, P. Machado, K. Dulin, S. Jaffe, D.A. Merton, H. Ojeda-Fournier, R.F. Mattrey, K. Wallace, C.L. Chalek, K.E. Thomenius, F. Forsberg. Three-dimensional (3D) parametric maps for visualization of breast lesion vasculature using subharmonic imaging. *Proc. IEEE Ultrason. Symp.*1152-1155, 2014.

140. L. Albala, J.R. Eisenbrey, M.R. Kramer, N. Daroshefski, D. Brown, P. O'Kane, F. Forsberg, M.A. Wheatley. Oxygen-filled surfactant microbubbles for overcoming tumor hypoxia-associated radiotherapy resistance. *IEEE Ultrason. Symp.* Abstract P1C4-2, 2014.

141. M.A. Wheatley, L. Albala, P. O'Kane, F. Forsberg, S.M. Evans, C.J. Koch, S. Schultz, C. Seghal, J.R. Eisenbrey. In vitro and in vivo characterization of contrast agents for overcoming tumor hypoxia-associated radiotherapy resistance. *Proc. Ultrasonics Annual Meeting,* Abstract O26A, 2014.

142. A. Sridharan, J. R. Eisenbrey, F. Forsberg, P. Machado, K. Dulin, S. Jaffe, D. A. Merton, H. Ojeda-Fournier, R. F. Mattrey, K. Wallace, C. L. Chalek, K.E. Thomenius. Visualization of breast lesion vasculature using three-dimensional (3D) subharmonic parametric maps. *Prog RSNA*, abstract no SSA21-03, 2014.

143. E.J Trabulsi, J.R. Eisenbrey, P.Machado, C.M. Shaw, A. Lyshchik, C.D. Lallas, D.A. Merton, T.B. Fox, J.B. Liu, D.B. Brown, F. Forsberg. Contrast-enhanced harmonic and subharmonic ultrasound evaluation of renal mass cryoablation. *Mid-Atlantic Section of the American Urological Association Annual Meeting,* 2014.

144. J.R. Eisenbrey, A Lyshchik, C. Shaw, J. Weinsten, P. Machado, D.A. Merton, L. Pino, D.B. Brown, F. Forsberg. Parametric contrast-enhanced ultrasound evaluation of transarterial chemoembolization. *Proc. AIUM Annual Meeting,* J. Ultrasound Med. 33:S11, 2014.

145. P. Machado, J.R. Eisenbrey, B. Cavanaugh, F. Forsberg. Microcalcifications versus artifacts: Evaluation of a new ultrasound image-processing technique to identify breast microcalcifications in a screening population. *Proc. AIUM Annual Meeting,* J. Ultrasound Med. 33:S32, 2014.

146. P. Machado, J.R. Eisenbrey, B. Cavanaugh, F. Forsberg. Identification of breast microcalcifications using a new ultrasound image-processing technique on patients before biopsy. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 33:S32, 2014.

147. J.R. Eisenbrey, P. Machado, C. Shaw, A. Lyshchik, D.A. Merton, L. Pino, J.B. Liu, C.D. Lallas, E.J. Trabulsi, D.B. Brown, F. Forsberg. Evaluation of renal mass cryoablation with contrast-enhanced harmonic and subharmonic ultrasound: preliminary results and dosage optimization. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 33:S11, 2014.

148. P. Machado, J.R. Eisenbrey, B. Cavanaugh, F. Forsberg. Microcalcifications versus artifacts: evaluation of a new ultrasound image-processing technique to identify breast microcalcifications in a screening population. *Proc. AIUM Annual Meeting,* J. Ultrasound Med. 33:S32, 2014.

149. P. Machado, J.R. Eisenbrey, B. Cavanaugh, F. Forsberg. Identification of breast microcalcifications using a new ultrasound image-processing technique on patients before biopsy. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 33:S32, 2014.

150. A. Sridharan, J.R. Eisenbrey, K. Dulin, S. Jaffe, P. Machado, D. A. Merton, H. Ojeda-Fournier, R. F. Mattrey, K. Wallace, C. L. Chalek, K.E. Thomenius, F.Forsberg. Three-dimensional (3D) subharmonic parametric maps for the visualization of breast lesion vasculature. *Proc. AIUM Annual Meeting,* J. Ultrasound Med. 33:S38, 2014.

151. J.R. Eisenbrey, D.A. Merton, J.B. Liu, F. Forsberg. Methylene blue-coated definity as a dual contrast agent for photoacoustic and contrast-enhanced ultrasound imaging. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 33:S83, 2014.

152. C. Shaw, J.R. Eisenbrey, A. Lyshchik, P. O'Kane, D.A. Merton, L.A. Pino, F. Forsberg, D.B. Brown. Contrast enhanced ultrasound evaluation of hepatocellular carcinoma transarterial chemoembolization with drug eluting beads. 2:51 Abstract No. LB04. J. Vasc. Interven. Radiol. 25(4):662, 2014.

153. A. Sridharan, J.R. Eisenbrey, F. Forsberg, P. Machado, D.A. Merton, K. Wallace, C.L. Chalek, K.E. Thomenius. Visualization of vascularity in breast lesions using US contrast enhanced 3D subharmonic imaging. *Prog. RSNA*, SSA21-05, 2013.

154. J.R. Eisenbrey, D.A. Merton, J.B. Liu, A. Marshall, T.B. Fox, A. Sridharan, F. Forsberg. Comparing photoacoustic derived hemoglobin and oxygenation measurements and ultrasound contrast agent derived vascularity measurements with immunohistochemical staining in a breast cancer xenografts model. *Prog. RSNA*, CL-MIS-MO1B, 2013.

155. J.R. Eisenbrey, C. Shaw, A. Lyshchik, D.A. Merton, P. Machado, L. Pino, D.B. Brown, F. Forsberg. Contrast enhanced ultrasound for early assessment of transarterial chemoembolization of hepatocellular carcinoma using drug eluting beads: preliminary safety and efficacy. *Prog. RSNA*, LL-VIS-SU3A, 2013.

156. J.R. Eisenbrey, D.A. Merton, J.B. Liu, T.B. Fox, A. Sridharan, F. Forsberg. Ultrasound contrast agent based vascularity measurements versus photoacoustic derived hemoglobin and oxygenation measurements in a breast cancer model. *World Molecular Imaging Congress*, P563 2013.

157. J.R. Eisenbrey, C.C. Wilson, A. Sridharan, R.J. Ro, T.B. Fox, J.B. Liu, S.Y. Chiou, F. Forsberg. Prediction of VEGF expression in two tumor models using dynamic contrast enhanced ultrasound: identification of optimal imaging mode and temporal parameter. *World Molecular Imaging Congress*, P241, 2013.

158. P. Machado, J.R. Eisenbrey, B. Cavanaugh, F. Forsberg. Using a new image-processing technique for identification of microcalcifications in patients prior to biopsy. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S14, 2013.

159. J.R. Eisenbrey, A. Sridharan, D. Merton, P. Machado, K. Wallace, C.L. Chalek, K. Thomenius, F. Forsberg. Four-dimensional subharmonic breast imaging: initial experiences. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S18, 2013.

160. J.R. Eisenbrey, V. Halldorsdottir, A. Sridharan, J. Rychak, F. Forsberg. Effect of targeted ultrasound contrast agent attachment on nonlinear frequency emissions. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S86, 2013.

161. J.R. Eisenbrey, C.C. Wilson, R.J. Ro, T.B. Fox, J.B. Liu, S.Y. Chiou, F. Forsberg. Correlation of ultrasound contrast agent-derived blood flow parameters with immunohistochemical markers in murine xenografts: influence of the imaging mode, tumor model, and subcutaneous location. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S87, 2013.

162. P. Machado, J.R. Eisenbrey, B Cavanaugh, F. Forsberg. Identification of breast microcalcifications using a new ultrasound image processing technique on patients prior to biopsy. *Proc. World Fed. Ultrasound Med. Biol. Annual Meeting, S87, 2013.*

163. P. Machado, J.R. Eisenbrey, A. Sridharan, D.A. Merton, R.F. Mattrey, H. Ojeda-Fournier, K. Wallace, C.L. Chalek, K.E. Thomenius, F. Forsberg. Initial experiences with 4D subharmonic breast Imaging. *Proc. World Fed. Ultrasound Med. Biol. Annual Meeting, S27, 2013.*

164. P. Machado, A. Sridharan, J.R. Eisenbrey, D.A. Merton, K. Wallace, C.L. Chalek, K.E. Thomenius, F. Forsberg. Method to improve visualization of vascularity using 4D subharmonic breast imaging. *Proc. World Fed. Ultrasound Med. Biol. Annual Meeting, S27, 2013.*

165. P. Machado, J.R. Eisenbrey, B Cavanaugh, F. Forsberg. Evaluation of a new image processing technique for the identification of breast microcalcifications. *Proc. World Fed. Ultrasound Med. Biol. Annual Meeting, S87, 2013.*

166. P. Machado, J.R. Eisenbrey, B Cavanaugh, F. Forsberg. Ultrasound guided biopsy of breast microcalcifications with anew ultrasound image processing technique. *Proc. World Fed. Ultrasound Med. Biol. Annual Meeting, S41, 2013.*

167. A. Sridharan, J.R. Eisenbrey, F. Forsberg, V.G. Halldorsdottir, J.K. Dave, P. Machado, J.B. Liu, S. Park, S. Dianis, K. Wallace, K.E. Thomenius. In vivo perfusion estimation using 3D sub-harmonic ultrasound. *Prog. RSNA,* SSA21-05, 2012.

168. J.R. Eisenbrey, A. Sridharan, P. Machado, D.A. Merton, J.B. Liu, K. Wallace, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, F. Forsberg. 4D subharmonic imaging in vivo. *Proc. IEEE Ultrason. Symp.*, 2012.

169. A. Sridharan, J.R. Eisenbrey, P. Machado, J.B. Liu, H. Zhao, Y. He, K. Wallace, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, F. Forsberg. Perfusion estimation using 3D subharmonic imaging: an in vivo study. *Proc. IEEE Ultrason. Symp.*, 2012.

170. J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, D.A. Merton, J.B. Liu, J.H. Zhou, H.K. Wang, S. Park, S. Dianis, C. Chalek, F. Lin, K. Thomenius, D. Brown, F. Forsberg. On the utility of subharmonic microbubble signals to detect portal hypertension. *Proc. IEEE Ultrason. Symp.*, 2012.

171. J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, J.S. Raichlen, J.B. Liu, M. McDonald, K. Dickie, S. Wang, C. Leung, F. Forsberg. Noninvasive ventricular pressure estimation in vivo using the subharmonic emissions from ultrasound contrast agents. *Proc. IEEE Ultrason. Symp.,* 2012.

172. J.R. Eisenbrey, A. Sridharan, D.A. Merton, P. Machado, V.G. Halldorsdottir, J.K. Dave, J.B. Liu, H. Zhao, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, F. Forsberg. In vitro and in vivo 4-dimensional subharmonic imaging. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S50, 2012.

173. P. Machado, J.R. Eisenbrey, B. Cavanaugh, F. Forsberg. Evaluating a new ultrasound image-processing technique for the identification of microcalcifications in surgical breast specimens. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S47, 2012.

174. J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, S. Park, S. Dianis, C.L. Chalek, D.A. Merton, J.B. Liu, P. Machado, K.E. Thomenius, D.B. Brown, F. Forsberg. Automated power optimization for subharmonic aided pressure estimation. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S44, 2012.

175. J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, D.A. Merton, J.B. Liu, J. Zhou, H. Wang, S. Park, S. Dianis, C.L. Chalek, F. Lin, K.E. Thomenius, D.B. Brown, F. Forsberg. Subharmonic ultrasound reveals portal vein pressures and portal hypertension in canines. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S28, 2012.

176. B.B. Goldberg, D.A. Merton, J.B. Liu, A. Berger, A. Witkiewicz, F. Forsberg, J.R. Eisenbrey. Detection of secondary lymph nodes with contrast-enhanced ultrasound compared to radical lymph node resection. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S25, 2012.

177. J.R. Eisenbrey, J.K. Dave, V.G. Halldorsdottir, D.A. Merton, J. Gonzalez, C. Miller, P. Machado, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, D.B. Brown, V. Navarro, F. Forsberg. Noninvasive measurement of portal hypertension using subharmonic emissions from ultrasound contrast agents in patients with suspected portal hypertension. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S11, 2012.

178. A. Sridharan, P. Machado, J.R. Eisenbrey, E. deMuinck, M. Doyley, F. Forsberg. Subharmonic intravascular ultrasound filtering techniques for imaging atherosclerosis. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S97, 2012.

179. C.C. Wilson, J.R. Eisenbrey, R.J. Ro, T.B. Fox, J.B. Liu, S.Y. Chiou, F. Forsberg. Parametric imaging of ultrasound contrast shows an improved correlation with immunohistochemical markers in a glioma model compared to nonparametric imaging. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 31:S105, 2012.

180. J.R Eisenbrey, J.K. Dave, V.G. Halldorsdottir, D.A. Merton, J.M. Gonzalez, C. Miller, P. Machado, S. Park, S. Dianis, C. L. Chalek, K.E. Thomenius, D.B. Brown, V.J. Navarro, F. Forsberg. Noninvasive measurement of portal hypertension using a novel contrast-enhanced ultrasound technique (Abstract No. 229). *J. Vasc. Interven. Radiol*., 23:S94, 2012.

181. J.R. Eisenbrey, J.M. Gonzalez, J.K. Dave, V.G. Halldorsdottir, D.A. Merton, P. Machado, C. Miller, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, D.B. Brown, F. Forsberg, V. Navarro. Subharmonic aided pressure estimation (SHAPE): a noninvasive technique for the estimation of portal hypertension. *The Liver Meeting*, Abstract 13605, 2011.

182. J.R. Eisenbrey, J.K. Dave, V.G. Halldorsdottir, A. Sridharan, S. Park, S. Dianis, D.A. Merton, P. Machado, J.B. Liu, J.M. Gonazlez, C. Miller, K.E. Thomenius, D.B. Brown, V. Navarro, F. Forsberg. Simultaneous B-mode/subharmonic imaging and 3D subharmonic imaging on a modified commercial ultrasound scanner. *Proc. IEEE Ultrason. Symp.*, 624-627, 2011.

183. J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, J.B. Liu, M.E. McDonald, K. Dickie, C. Leung, F. Forsberg. Noninvasive estimation of dynamic pressures in

vitro and in vivo using the subharmonic response from microbubbles. *Proc. IEEE Ultrason. Symp.*, 176-179, 2011.

184. J.R. Eisenbrey, J.K. Dave, V.G. Halldorsdottir, D.A. Merton, C. Miller, J.M. Gonzalez, P. Machado, S. Park, S. Dianis, Carl L. Chalek, K.E. Thomenius, D.B. Brown, V. Navarro, F. Forsberg. Subharmonic aided pressure estimation in patients with suspected portal hypertension. *Proc. IEEE Ultrason. Symp.*, 620-623, 2011.

185. F. Forsberg, J.K. Dave, J.R Eisenbrey, C.W. Piccoli, D.A. Merton, J.P. Palazzo, A.L. Hall. Advanced processing of subharmonic ultrasound contrast images for improved breast cancer diagnosis. *Proc. Era of Hope*, pp. 612, 2011.

186. F. Forsberg, V.G. Halldorsdottir, B.C. Cavanaugh, P. Machado, J.B. Liu, J.R Eisenbrey, J.K. Dave, D.A. Merton. Subharmonic aided pressure estimation for monitoring neoadjuvant chemotherapy of locally advanced breast cancer. *Proc. Era of Hope*, pp. 595, 2011

187. F. Forsberg, J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, J.S. Raichlen, J.B. Liu, C. Miller, J.M. Gonzalez, M.E. McDonald, D.A. Merton, D. Brown, V. Navarro. On the utility of subharmonic contrast microbubble signals. *Ultrasonic Imaging*, vol. 33, pp. 65-66, 2011.

188. F. Forsberg, J.R. Eisenbrey, J.K. Dave, V.G. Halldorsdottir, D.A. Merton, P. Machado, J.B. Liu, C. Miller, J.M. Gonzalez, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, D.B. Brown, V. Navarro. Dual grayscale and subharmonic ultrasound imaging on a modified commercial scanner. *Prog. RSNA*, LL-PHS-SU9A, 2011.

189. F. Forsberg, J.R. Eisenbrey, J.K. Dave, V.G. Halldorsdottir, J.M. Gonzalez, C. Miller, D.A. Merton, P. Machado, S. Park, S. Dianis, C.L. Chalek, K.E. Thomenius, D.B. Brown, V. Navarro. Noninvasive subharmonic aided pressure estimation in patients with suspected portal hypertension- preliminary results. *Prog. RSNA*, LL-GIS-MO10A, 2011.

190. B.B. Goldberg, D.A. Merton, J.B. Liu, A. Berger, A. Witkiewicz, J.R. Eisenbrey, F. Forsberg. Contrast-enhanced ultrasound imaging (CEUS) detection of secondary lymph nodes compared to radical lymph node resection. *Prog. RSNA*, SSA12-06, 2011.

191. F. Forsberg, J.K. Dave, V.G. Halldorsdottir VG, J.R. Eisenbrey, J.S. Raichlen, J.B. Liu, M.E. McDonald, S. Wang, C. Leung , K. Dickie. Noninvasive Cardiac Pressure Estimation Using Subharmonic Microbubble Signals. *Prog. RSNA*, LL-CAS-WE6A, 2011.

192. V.G. Halldorsdottir, J.R. Eisenbrey, J.K. Dave, F. Forsberg, P. Machado, B. Cavanaugh, D.A Merton, J.B. Liu. Subharmonic-aided pressure estimation for

monitoring intersititial fluid pressure in swine melanomas: initial in vitro and in vivo results. *Prog. RSNA*, SSA21-03, 2011.

193. J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, F. Forsberg. Processing acoustic data from US contrast agents for ambient pressure estimation. *Prog. RSNA*, LL-PHS-SU9B 2011.

194. J.R. Eisenbrey, A. Sridharan, B.E. Lobel, E.D. deMuinck, F. Forsberg, M.M. Doyley. Comparison of parametric contrast-enhanced fundamental and subharmonic IVUS for plaque identification. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 30:S72, 2011.

195. J.K. Dave, V. Halldorsdottir, J.R. Eisenbrey, M. McDonald, J.B. Liu, J.S. Raichlen, C. Leung, K. Dickie, F. Forsberg. Subharmonic signals for noninvasive cardiac pressure estimation: initial in vivo experience. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 30:S71, 2011.

196. V. Halldorsdottir, J.K. Dave, J.R. Eisenbrey, P. Machado, J.B. Liu, D.A. Merton, F. Forsberg. Subharmonic aided pressure estimation for monitoring interstitial fluid pressure in tumors: in vitro and in vivo proof of concept. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 30:S28, 2011.

197. P. Machado, J.R. Eisenbrey, B. Cavanaugh, F. Forsberg. New image-processing technique for evaluating breast microcalcifications: a comparative study. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 30:S10, 2011.

198. M. Cochran, J.R. Eisenbrey, M.C. Soulen, M.A. Wheatley. Halting tumor growth using a drug-loaded polymer contrast agent. *Proc. AIUM Annual Meeting*, J. Ultrasound Med. 30:S87, 2011.

199. S. B. White, M. C. Cochran, J.R. Eisenbrey, E. Furth, M.A. Wheatley, M.C. Soulen. Treatment of HCC with an ultrasound sensitive polymeric drug carrier. *J. Vasc. Interven. Radiol.*, 22:S10, 2011.

200. F. Forsberg, J.R. Eisenbrey, J.K. Dave, D.A. Merton, J.P. Palazzo, A.L. Hall. Feasibility of parametric imaging using subharmonic signals from US contrast agents in patients with breast masses. *Prog. RSNA*, SSA21-07, 2010.

201. J.R. Eisenbrey, J.K. Dave, D.A. Merton, J.P. Palazzo, A.L. Hall, F. Forsberg. Breast lesion characterization by parametric imaging of subharmonic signals from ultrasound contrast agents. *Proc. IEEE Ultrason. Symp*., 790-793, 2010.

202. J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey, J.B. Liu, F. Lin, J.H. Zhou, H.K. Wang, K. Thomenius, F. Forsberg. In vivo subharmonic pressure estimation of portal hypertension in canines. *Proc. IEEE Ultrason. Symp*., 778-781, 2010.

203. F. Forsberg, N. Joshi, J.R. Eisenbrey. Vascular architecture in subharmonic breast images: a comparative study. *Proc. IEEE Ultrason. Symp*., 41-44, 2010.

204. J.R. Eisenbrey, M.A. Wheatley, M.C. Soulen. Microbubble platform for non-invasive US-mediated drug delivery to liver tumors: in vivo evaluation. *World Conference on Interventional Oncology*, A8, 2008.

Book Chapters:

1. D.A. Merton and J.R. Eisenbrey. Abdominal Applications of Ultrasound Contrast Agents. In: Textbook of Diagnostic Sonography, 9th Edition. S. Hagen-Ansert (ed). 2022; Elsevier.

2. J.R. Eisenbrey. CEUS in Treatment Response Evaluation: Cryoablation. In: Fundamentals of CEUS. A. Lyshchik (ed). 2019; pp. 318-322. Elsevier.

3. J.R. Eisenbrey. CEUS in Treatment Response Evaluation: Liver Embolization. In: Fundamentals of CEUS. Lyshchik A (ed). 2019; pp. 328-332. Elsevier.

4. M.F. Meloni, G. Francia, J.R. Eisenbrey. CEUS in Treatment Response Evaluation: Radiofrequency and Microwave Ablation. In: Fundamentals of CEUS. Lyshchik A (ed). 2019; pp.322-326. Elsevier.

5. F. Forsberg, M. Averkiou, J.R. Eisenbrey. Physical Principles of CEUS. In: Fundamentals of CEUS. Lyshchik A (ed). 2019; pp. 8-12. Elsevier.

6. M. Averkiou, F. Forsberg, J.R. Eisenbrey. Safety and Biological Effects of Microbubble-Based Contrast Agents. In: Fundamentals of CEUS. A. Lyshchik (ed). 2019; pp.12-16. Elsevier.

7. J.R. Eisenbrey, C. Greis. Ultrasound Contrast Agents: Lumason/SonoVue. In: Fundamentals of CEUS. A. Lyshchik (ed). 2019; pp. 20-24. Elsevier.

8. J.R. Eisenbrey, L. Hilaire, G. Warner. Ultrasound Contrast Agents: Definity. In: Fundamentals of CEUS. A. Lyshchik (ed). 2019; pp. 24-28. Elsevier.

9. J.R. Eisenbrey. Ultrasound Contrast Agents: Optison. In: Fundamentals of CEUS. A. Lyshchik (ed). 2019; pp. 28-32. Elsevier.

10. Kramer M, Wessner C, Eisenbrey JR. Color Doppler. In: Diagnostic Ultrasound: Vascular, Lockhart M et al. (eds). 2018; pp. 4-8. Elsevier.

11. Wessner C, Eisenbrey JR, Lyshchik A Power Doppler. In: Diagnostic Ultrasound: Vascular. Lockhart M et al. (eds). 2018; pp. 8-12. Elsevier.

12. Wessner C, Eisenbrey JR, Lyshchik A. Aliasing, Blooming, and Twinkling Artifact. In: Diagnostic Ultrasound: Vascular. Lockhart M et al. (eds). 2018; pp. 24-30. Elsevier.

13. Li J, Eisenbrey JR, Lyshchik A. Spectral Doppler: General Waveform Concepts. In: Diagnostic Ultrasound: Vascular. Lockhart M et al. (eds). 2018; pp. 12-16. Elsevier.

14. I. Gupta, J.R. Eisenbrey, F. Forsberg. Subharmonic Aided Pressure Estimation (SHAPE). In: J. Bosch, A. Berzigotti (eds). Diagnostic Methods for Cirrhosis and Portal Hypertension. 2018; pp.159-169. Springer.

15. D.B. Rodrigues, P.R. Stauffer, J.R. Eisenbrey, V. Beckhoff, M.D. Hurwitz: MR Guided Focused Ultrasound and Thermal Oncology: Advances in Radiation Oncology. 2017: pp.69-109. Elsevier.

16. S. Dastgheyb, J.R. Eisenbrey. Microbubbles in Biomedicine. In: S. Ebnesajjad, K. Modjarrad (eds.) Handbook of Polymer Applications in Medicine and Medical Devices, 2013: pp.253-279. San Diego CA, Elsevier.

17. M.A Wheatley, J.R. Eisenbrey. Polymeric imaging agents. In: K. Matyjaszewski, M. Möller (eds.) Polymer Science: A Comprehensive Reference, 2012; Vol. 9, pp. 529–545. Amsterdam: Elsevier BV.

Support:

1. 2D and 3D Contrast-Enhanced Ultrasound Evaluation of HCC Chemoembolization (Eisenbrey). NIH R01 CA194307. August 2024- July 2029. Total award: $2,975,241. Role: PI.

2. Comparison of Monodisperse and Polydisperse Ultrasound Contrast Agents for Radiosensitization of Head and Neck Squamous Cell Carcinoma. Solstice Pharmaceuticals. July 2024- July 2025. Total award: $18,900. Role: PI.

3. Deciphering the oncogenic roles of NELFE in HCC (Deng). NIH R01 CA284017. July 2023- August 2028. Total award: $1,792,843. Role: Co-I.

4. Three-Dimensional Multi-Parametric Ultrasound for Monitoring Therapy of Liver Metastasis (El Kaffas; Lyshchik PI of Subcontract). NIH R01 CA195443. September 2021- August 2026. Total Award Amount: $296,215. Role: Co-I.

5. Onx Liver Assessment Solution Clinical Study. Oncoustics (Eisenbrey). September 2023-August 2025. Total award: $33,685. Role: PI.

6. GE Healthcare LOGIQ R4 Systems Evaluation (Eisenbrey). GE Healthcare. September 2023-November 2023. Total award: $11,352. Role: PI.

7. Acoustic droplet initiated radiosensitivity of hepatocellular carcinoma (Eisenbrey). NIH R21 CA273838. July 2023- June 2025. Total award: $401,115. Role: PI.

8. Multi-modality detection of RCC recurrence post ablation (Eisenbrey & Trabulsi). NIH R01 CA269750. December 2022- November 2027. Total award: $3,031,896. Role: PI.

9. Monodisperse microbubbles for noninvasive pressure estimation (Eisenbrey). NIH R01 EB032333. August 2022 – April 2026. Total award: $2,389,019. Role: PI.

10. Noninvasive subharmonic aided pressure estimation of portal hypertension (Forsberg). NIH R01 DK098526-06. August 2021- April 2026. Total award: $2,975,195. Role: Co-I.

11. Focused ultrasound coagulation of liver lacerations (Eisenbrey). The Focused Ultrasound Society. September 2022- December 2023. Total award: $99,521. Role: PI

12. Contrast enhanced ultrasound for diagnosis and therapy of cholangiocarcinoma (Eisenbrey & Anton). NIH R21CA259750. November 2021- October 2023. Total award: $397,469. Role: PI.

13. Noninvasive subharmonic aided pressure estimation of portal hypertension (Forsberg). NIH R01 DK098526. August 2021- March 2026. Total award amount: $2,975,195; Role: Co-I.

14. GE Ultrasound System Performance Evaluation (Eisenbrey).
GE Healthcare. January 2021-December 2022. Total award: $17,053; Role: PI

15. Microbubble cavitation for improving hepatocellular carcinoma Radioembolization (Eisenbrey & Shaw). NIH R01 CA238241. September 2019- August 2024. Total award: $1,812,554. Role: PI

16. Monitoring neoadjuvant chemotherapy of breast cancer using 3D subharmonic aided pressure estimation (Nam) NIH R37CA234428. July 2019- May 2024. Total award: $2,081,607. Role: Co-I.

17. Contrast enhanced ultrasound identification of sentinel nodes in esophageal cancer (Liu and Loren) NIH R21 CA218946. May 2018-April 2020. Total award: $397,000. Role: Co-I.

18. AI identification of fatty liver on ultrasound: A prospective study (Eisenbrey). GE LOGIQ™ E10 Ultrasound Research Challenge. Jan 2019-Dec 2019. Direct Costs: $74,884; Role: PI

19. Clinically translatable ultrasound-sensitive microbubble approaches for overcoming tumor hypoxia (Eisenbrey & Wheatley). NIH R01 EB026881, July 2018- June 2023. Total award: $2,491,418. Role: PI.

20. Modeling multiscale control of liver regeneration (Vadigepalli). NIH U01 EB023224. July 2017- June 2022. Role: Co-Investigator.

21. Noninvasive Portal Pressure Measurements in Children (Forsberg & Anupinda). R01 DK118964. Period: 09/01/2018 – 08/31/2022 NIDDK; Role: Co-Investigator

22. Investigating breast cancer brain metastasis response to radiation following microbubble oxygen delivery in vivo (Eisenbrey, Reginato, Wheatley). Sidney Kimmel Cancer Center Breast Cancer Pilot Award. October 2017- October 2018. Total award: $15,000. Role: PI

23. Synovial Fluid and Joint Sepsis (Hickok). R01 AR072513. Period: 08/01/2017-05/31/2022. NIH/NIAMS; Role: Co-Investigator

24. Contrast-enhanced ultrasound evaluation of focal liver lesions in patients with cirrhosis or other risk factors for developing HCC (Lyshchik). R01 CA215520. Period: 09/15/2017-08/31/2021. NIH/NCI; Role: Co-Investigator

25. Optimizing ultrasound enhanced delivery of therapeutics (Forsberg). NIH R01 CA199646. August 2016- July 2021. Total award: $2,932,949. Role: Co-I.

26. Microbubble cavitation for improving hepatocellular carcinoma radioembolization (Eisenbrey, Shaw, Posey). Provost's Pilot Clinical Research Award, April 2017- March 2018. Total award: $6,000. Role: PI.

27. Photoacoustic Imaging Technology Development (Eisenbrey). GlaxoSmithKline, March 2017-March 2018. Direct Costs:$18,950; Role: PI

28. Contrast-Enhanced Ultrasound and Photoacoustic Imaging for Prediction of Ductal Carcinoma In Situ Formation and Aggressiveness (Eisenbrey). The Shaber Family Award for Breast Cancer Research, June 2016-June 2018. Total award: $25,000. Role: PI

29. 2D and 3D Contrast-Enhanced Ultrasound Evaluation of HCC Chemoembolization (Eisenbrey & Shaw). NIH R01 CA194307, January 2016 - December 2021. Total award: $2,300,047. Role: PI

30. Noninvasive subharmonic aided pressure estimation of portal hypertension (Forsberg). NIH R01 Dk09852 April 2013- March 2018. Direct Costs: $1,744,158 Role: Co-Investigator.

31. Creating a New Paradigm for Pancreatic Cancer Treatment (Eisenbrey). W.W. Smith Charitable Trust November 2015- October 2016. Direct Costs: $18,182 Role: PI of subcontract

32. Oxygen Microbubbles for Overcoming Hypoxic Tumor Resistance to Radiotherapy (Eisenbrey & O'Kane). NIH R21 CA190926, July 2015- Decemeber 2017. Direct Costs: $275,000; Role: PI

33. Two and Three Dimensional Contrast-Enhanced Ultrasound for Screening of Renal Cell Carcinoma Recurrence Following Cryoablation (Eisenbrey), GE Healthcare, March 2015- March 2017. Direct Costs: $17,500; Role: PI

34. Analysis of 3D Subharmonic Ultrasound Signals from Patients with Known Breast Masses for Lesion Differentiation (Eisenbrey). DOD W81XWH-11-1-0630, October 2011-September 2014. Direct Costs: $183,793; Role: PI

35. Noninvasive and accurate measurement of portal hypertension (Forsberg). NIH RC1 DK087365. September 2009-December 2011. Direct Costs: $685,052; Role: Key Personnel.

Patents:

1. Temperature sensitive surgical face mask for identifying at risk patients and reducing viral infection. J.R. Eisenbrey, A. Daecher. Filed 4/12/2016. App. No.: 62,321,590.

2. Surfactant Microbubbles and Process for Preparing and Methods of Using the Same. J.R. Eisenbrey, MA. Wheatley, P. O'Kane, L. Albala, F. Forsberg. Patent number: US 2016/0059036 A1. Published 3/3/2016.

3. Antibiotic drug release sheath. C.K. Kepler, A.M Sevit, S.M. Kurtz, N. Hickok, F. Forsberg, J.R. Eisenbrey. Filed 8/28/15. App. No.: 62,211,388.

4. Methods for improved selection, processing and display of subharmonic microbubble signals as pressure estimates. F. Forsberg, J.K. Dave, V.G. Halldorsdottir, J.R. Eisenbrey. Filed 8/1/11, App. No.: 61,498,278.

5. Drug Loaded Contrast Agents: Combining Diagnosis with Therapy. M.A. Wheatley, O. Mualem-Burstein, J.R. Eisenbrey. Patent number: US 9,220,709. 12/29/2015.