

CURRICULUM VITAE

Brandon Key MD

Assistant Professor
Department of Radiology
Division of Vascular and Interventional Radiology

OFFICE ADDRESS:

Froedtert Hospital
9200 W Wisconsin Ave
Milwaukee, WI 53226

EDUCATION:

08/2005 - 05/2006 Biology, Alvin Community College, Alvin, TX
08/2006 - 12/2009 BS, Biochemistry, Summa Cum Laude, St. Mary's University, San Antonio, TX
06/2007 - 08/2007 Spanish Language Immersion Program, Universidad Nacional, Heredia, Costa Rica
08/2010 - 05/2014 MD, Alpha Omega Alpha, University of Texas Medical School at Houston, Houston, TX

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

07/2014 - 06/2015 Preliminary Residency, Internal Medicine, University of Texas Medical School at Houston, Houston, TX
07/2015 - 06/2019 Resident, Radiology, Diagnostic Radiology, University of Texas Medical School at Houston, Houston, TX
07/2019 - 06/2020 Fellow, Radiology, Interventional Radiology, Medical College of Wisconsin, Milwaukee, WI

FACULTY APPOINTMENTS:

07/2020 - Present Assistant Professor, Radiology, Interventional Radiology, Medical College of Wisconsin, 8701 Watertown Plank Rd, Milwaukee, WI 53226
07/01/2023 - Present Assistant Professor, Orthopaedic Surgery, Clinical, Medical College of Wisconsin, 8701 Watertown Plank Rd, Milwaukee, WI 53226

HOSPITAL STAFF PRIVILEGES:

07/2020 - Present Radiology, Vascular & Interventional Radiology, Froedtert Memorial Lutheran Hospital, Milwaukee, WI
07/2020 - Present Radiology, Vascular & Interventional Radiology, Froedtert Menomonee Falls Hospital, W180N8085 Town Hall Rd, Menomonee Falls, WI 53051
07/2020 - Present Radiology, Vascular & Interventional Radiology, Froedtert West Bend Hospital, 3200 Pleasant Valley Rd, West Bend, WI 53095
09/2020 - Present Radiology, Vascular & Interventional Radiology, Clement J. Zablocki VA Medical Center, 5000 W National Ave, Milwaukee, WI 53226

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
Interventional Radiology/Diagnostic Radiology	10/28/2022	None

<u>Certificates</u>	<u>Issued By</u>	<u>Issue Date</u>	<u>Expiration</u>
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ACLS	AHA	05/13/2019	None
BLS	AHA	05/13/2019	None

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
State of Texas Full Medical Physician License	R1794	02/22/2017	None
Wisconsin License in Medicine and Surgery	70516	01/28/2019	None

AWARDS AND HONORS:

08/2005 - 05/2006 Baseball Scholarship, Alvin Community College
 08/2006 - 12/2009 Baseball Scholarship, St. Mary's University
 08/2009 - 12/2009 President's Academic Scholarship, St. Mary's University

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

2012 - Present Society of Interventional Radiology
 2013 - Present Alpha Omega Alpha
 2015 - 2019 Texas Radiologic Society
 2015 - 2019 Radiological Society of North America
 2019 - Present Society of Interventional Oncology
 2023 - Present American Roentgen Ray Society

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Journal Review
 02/2024 - Present Journal of Vascular and Interventional Radiology
 Radiographics

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

07/2017 - 06/2019 Chief Resident, Diagnostic Radiology Residency, University of Texas Medical School at Houston
 07/2017 - 06/2019 Member, Program Evaluation Committee, Diagnostic Radiology, University of Texas Medical School at Houston
 12/10/2022 - 09/30/2023 Course Director, SIO Musculoskeletal Masterclass, Society of Interventional Oncology (SIO)

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

08/2013 - 05/2014 Chief Pedagogue, Future Radiologists of America
 07/2016 - 06/2017 Resident Representative, Radiological Society of North America
 11/01/2021 - Present Council Representative, MSK & Pain Management Specialty Council, Society of Interventional Radiology (SIR)
 07/01/2024 - 02/03/2025 Member-at-Large, 2024 Annual Scientific Meeting Program Committee, Society of Interventional Oncology (SIO)

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Non-Peer Review

Title:	A Prospective, Multi-Center, Single-Arm, Real World Study Assessing the Clinical Use of the Caterpillar™ Arterial Embolization Device for Arterial Embolizationj in the Peripheral Vasculature (MONARCH)
Source:	Bard Peripheral Vascular, Inc.

Role & Effort: Sub-Investigator
PI: William S. Rilling, MD
Dates: 07/28/2020 - Present

Title: Talosix Vertebral Compression Fracture
Registry
Source: Talosix
Role & Effort: Principal Investigator
PI: Brandon Key, MD
Dates: 07/01/2021 - Present

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

National

- Key, BM., Sarcoma: Desmoid, Society of Interventional Oncology (SIO) Annual Scientific Meeting, Virtual, 02/03/2021 - 02/06/2021
- Key, BM., How I Do It: Innovative Approaches to Complex Procedures A Case-Based Discussion on the Role of Imaging on Outcomes, Society of Interventional Radiology Annual Scientific Meeting, Virtual, 03/24/2021
- Key, BM., Structural principles in Spine Interventions: Mechanical Augmentation and Cement Containment, Society of Interventional Oncology MSK Master Class Mondays, Virtual, 07/26/2021
- Key, BM., New Horizons in Musculoskeletal Ablation, Radiologic Society of North America (RSNA) Annual Scientific Meeting, Chicago, IL, 11/28/2021 - 12/02/2021
- Key, BM., The Value of a Multispecialty Practice, International Symposium on Endovascular Therapy (ISET) 2022, Hollywood, FL, 01/16/2022 - 01/19/2022
- Key, BM., Essentials of Endovascular Therapy: Discussion and Audience Q & A, International Symposium on Endovascular Therapy (ISET) 2022, Hollywood, FL, 01/16/2022 - 01/19/2022
- Key, BM., Wooldridge, AA., Minimally Invasive Treatment and Stabilization of Periacetabular Metastasis, Innovation & Collaboration: 2022 Advances in Musculoskeletal Oncology Symposium, Fort Lauderdale, FL, 01/27/2022 - 01/28/2022
- Key, BM., Coordinator: MSK Pain, Hands-on Workshop, Society of Interventional Oncology (SIO) Regional Masterclass: MSK: Interventions in Musculoskeletal Oncology, University of California - San Diego, 12/09/2022 - 12/10/2022
- Key, BM., Hands-on Learning: "Pelvic Fixation"/Ablation, Osteoplasty, and Screw Fixation in the Pelvis, Society of Interventional Oncology (SIO) Regional Masterclass: MSK: Interventions in Musculoskeletal Oncology, University of California - San Diego, 12/09/2022 - 12/10/2022
- Key, BM., Pigmented villonodular synovitis (PVNS) Round Table, Innovation & Collaboration: 2023 Advances in Musculoskeletal Oncology Symposium, Miami, FL, 01/26/2023 - 01/27/2023
- Key, BM., Sacroplasty 2023: an Update on Reimbursement, Devices, and Technique, Society of Interventional Radiology (SIR) Annual Scientific Meeting, Phoenix, AZ, 03/04/2023 - 03/09/2023
- Key, BM., Coordinator: HOW: Advanced MSK and Pain Management Interventions, Society of Interventional Radiology (SIR) Annual Scientific Meeting, Phoenix, AZ, 03/04/2023 - 03/09/2023
- Key, BM., Image Guidance in Osteoplasty and Fixation, Society of Interventional Radiology (SIR) Annual Scientific Meeting, Phoenix, AZ, 03/04/2023 - 03/09/2023
- Key, BM., Image Guidance in Ablation, Osteoplasty, and Fixation of the Pelvis, Association of Vascular and Interventional Radiographers (AVIR) Annual Meeting, Phoenix, AZ, 03/05/2023 - 03/07/2023
- Key, BM., Image Guided Techniques for Complex MSK Pain Palliation Including Cryoablation, Cementoplasty and Screw Fixation, Radiological Society of North America 2023 Annual Scientific Meeting, Chicago, IL, 11/26/2023 - 11/30/2023
- Key, BM., Speaker: Cement Augmentation and Osteosynthesis in the Treatment of Painful Bone Metastases, Society of Interventional Oncology (SIO) 2024 Annual Scientific Meeting, Long Beach, CA, 01/25/2024 - 01/29/2024
- Key, BM., Coordinator: Bone and Soft Tissue Interventions, Society of Interventional Radiology (SIR) Annual Scientific Meeting, Salt Lake City, UT, 03/23/2024 - 03/28/2024
- Key, BM., Speaker: Interventional Oncology Treatments for Sarcomas and Desmoid Tumors, Society of Interventional Radiology (SIR) Annual Scientific Meeting, Salt Lake City, UT, 03/23/2024 - 03/28/2024

- Key, BM., Speaker: Rise of OrthoIR, Society of Interventional Radiology (SIR) Annual Scientific Meeting, Salt Lake City, UT, 03/23/2024 - 03/28/2024
- Key, BM., Moderator: Pain-MSK; Miscellaneous, Society of Interventional Radiology (SIR) Annual Scientific Meeting, Salt Lake City, UT, 03/23/2024 - 03/28/2024
- Key, BM., Speaker: Imaging to Intervention: Advanced Musculoskeletal Procedures and Bone Tumor Overview: Advanced MSK Procedures, American Roentgen Ray Society (ARRS) 2024 Annual Scientific Meeting, Boston, MA, 05/05/2024 - 05/09/2024
- Key, BM., Speaker: Cement Augmentation and Osteosynthesis of the Pelvic Rim: Pre-procedural Considerations and Technical Tips, Radiological Society of North America (RSNA) 2024 Annual Meeting, Chicago, IL, 12/02/2024
- Key, BM., Speaker: Interventional Radiology Treatment of Desmoid Tumors, Advances in Musculoskeletal Oncology Symposium, Miami, FL, 01/23/2025 - 01/24/2025
- Key, BM., Moderator: MSK Tumor Board, Society of Interventional Oncology (SIO) Annual Scientific Meeting, Las Vegas, NV, 01/30/2025 - 02/03/2025

Regional

- Key, BM., Embolization, Association of Vascular and Interventional Radiographers (AVIR) Annual Meeting, Milwaukee, WI, 03/09/2020
- Key, BM., Musculoskeletal Embolization, 2023 Southeastern Association of Vascular and Interventional Radiographers (AVIR) Spring Symposium, Wauwatosa, WI, 04/15/2023
- Key, BM., Ablation, Screw Fixation, and Cementation in the Pelvis, Society of Interventional Oncology (SIO) Regional MSK Masterclass, Milwaukee, WI, 09/30/2023

Local

- Key, BM., Musculoskeletal Oncology, Interventional Radiology & Radiation Oncology Joint Symposium - Progress & Potential: Optimizing Collaboration & Clinical Trial Opportunities in Radiation Oncology & Interventional Radiology, Froedtert Memorial Lutheran Hospital, Milwaukee, WI, 12/09/2022

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

International

- Maguire, T., Key, BM., Hieb, RA., Advanced Imaging Techniques in the Treatment of Type II Endoleaks, Scientific Poster Presented at International Symposium on Endovascular Therapy (ISET) Annual Scientific Meeting, Hollywood, FL, 01/16/2022 - 01/19/2022

National

- Key, BM., Bhatti, Z., Niekamp, A., Pillai, A., CT Angiography (CTA) in Abdominal Solid Organ Trauma (SOT); A Pictorial Essay with Angiographic Correlation and Management Strategies, Electronic Exhibit at Society of Interventional Radiology Annual Meeting, Los Angeles, CA, 03/17/2018 - 03/22/2018
- Key, BM., Pillai, A., Recanalization Techniques for Central Venous Occlusion in Hemodialysis Patients, Electronic Exhibit at American Roentgen Ray Society Annual Meeting, Washington, DC, 04/22/2018 - 04/27/2018
- Key, BM., Yevich, S., Complex Vertebral Body Fracture Screw Fixation: An Exceptional Solution for an Exceptional Situation, Electronic Exhibit at American Society of Spine Radiology Annual Meeting, Miami, FL, 02/20/2019 - 02/24/2019
- Key, BM., Gade S., Yevich, S., Percutaneous Screw Fixation for Pain Palliation in Cancer Patients with Various Grades of Sacral Fractures: Outcomes of Both Unilateral and Trans-Sacral Techniques, American Society of Spine Radiology Annual Meeting, Miami, FL, 02/20/2019 - 02/24/2019
- Key, BM., Safety and Efficacy of Angio-Seal for Hemostasis after PTFE Graft Access, Society of Interventional Radiology (SIR) Annual Scientific Meeting, Virtual, 03/28/2020 - 04/02/2020
- Maguire, T., Key, BM., White, SB., Safety and Efficacy of Angioseal Compared to Manual Compression in Achieving Hemostasis Following Direct Puncture of PTFE Grafts, Scientific Poster Presented at the Society of Interventional Radiology Annual Scientific Meeting 2021, Virtual, 03/20/2021 - 03/26/2021
- Mossahebi, P., Scheidt, MJ., Smolock, AR., Tutton, SM., Key, BM., Screw and Glue Primer: A Pictorial Essay Review of Pelvic Fluoroscopy Anatomy, Screw Fixation Corridors, and Augmented Fluoroscopy, Scientific Poster Presented at the Society of Interventional Radiology (SIR) Annual

- Scientific Meeting, Boston, MA, 06/11/2022 - 06/16/2022
- Gadodia, G., Smolock, AR., Tutton, SM., Kamaraju, S., White, SB., Key, BM., Safety and Efficacy of Ablation with and without Osteoplasty for the Treatment of Osseous Breast Cancer Metastases, Scientific Poster Presented at the Society of Interventional Radiology (SIR) Annual Scientific Meeting, Boston, MA, 06/11/2022 - 06/16/2022
- Zhou, J., Smolock, AR., Haddad, MM., Key, BM., Patel, PJ., White, SB., Scheidt, MJ., Prostate Artery Embolization: Anatomy, Imaging, and Tips for Success, Scientific Poster Presented at the 2023 Global Embolization Oncology Symposium Technologies (GEST) Annual Meeting, New York, NY, 05/18/2023 - 05/21/2023
- Moran, P., Mustafa, HH., Tutton, S., Key, BM., Scheidt, MJ., Wooldridge, A., Complications and Long Term Outcomes of Percutaneous Pelvic Screw Fixation: A Large Single Center Review, Scientific poster presented at Society of Interventional Radiology (SIR) Annual Scientific Meeting, Salt Lake City, UT, 03/23/2024 - 03/28/2024
- Perez, AW., Skummer, PT., White, SB., Scheidt, MJ., Patel, PJ., Hieb, RA., Hohenwarter, EJ., Cristescu, MM., Haddad, MM., Key, BM., Rilling, WS., Smolock, AR., Characterizing the Learning Curve of Adopting Intracardiac Echo Guidance in Creation of Transjugular Intrahepatic Portosystemic Shunts, Scientific poster presented at Society of Interventional Radiology (SIR) Annual Scientific Meeting, Salt Lake City, UT, 03/23/2024 - 03/28/2024
- Lin, L., Skummer, PT., Smolock, AR., Hieb, RA., Hohenwarter, EJ., Key, BM., Rilling, WS., Scheidt, MJ., White, SB., Patel, PJ., Patency of Iliocaval and Iliofemoral Venous Stenting, Scientific poster presented at Society of Interventional Radiology (SIR) Annual Scientific Meeting, Salt Lake City, UT, 03/23/2024 - 03/28/2024

Local

- Maguire, T., Key, BM., White, SB., Safety and Efficacy of Angio-Seal for Hemostasis after PTFE Graft Access, Scientific Poster Presented at MCW Research Week, Medical College of Wisconsin, Milwaukee, WI, 02/22/2021 - 02/26/2021

COMMITTEE SERVICE:

Medical College of Wisconsin

- 06/01/2021 - Present Co-Chair, Social Committee, Radiology, Medical College of Wisconsin

Hospital

- 07/01/2020 - Present Vertebral Compression Fracture (VCF) Pathway, Froedtert Hospital
- 07/2020 - Present Line Quality Committee, Froedtert Hospital
- 03/2021 - Present Ambulatory Pain Care Program Committee, Healthcare Value Council, Comprehensive Pain Program Steering Committee, Froedtert Hospital
- 11/01/2021 - Present Multimodal Spine Quality and Performance Management Committee, Froedtert Hospital
- 05/01/2022 - Present Pain & Comfort, Multidisciplinary Group, Froedtert Hospital
- 05/2023 - Present Digital Clinical Informatics Governance Committee (CIGC), Froedtert Hospital
- 05/2023 - Present Clinical Informatics Governance Committee, Froedtert Hospital
- 05/2023 - Present Surgical Clinical Informatics Governance Committee (CIGC), Froedtert Hospital

MCW TEACHING ACTIVITIES:

Medical Student Education

- 05/03/2022 Medical Student Lecture
- 08/15/2024 Medical Student Lecture

Resident and Fellow Education

- 03/31/2021 Resident Didactic Lecture: Vertebroplasty, Kyphoplasty and Mechanical Augmentation
- 04/16/2021 Resident Didactic Lecture: Vertebral Augmentation
- 05/12/2021 Moderator: Resident Journal Club: Vertebral Augmentation
- 09/08/2021 Resident Didactic Lecture: Biomechanics of Vertebral Augmentation
- 04/11/2022 Resident Didactic Lecture: Interventional Radiology Board Review

06/07/2022 Resident Didactic Lecture: Musculoskeletal IR
09/05/2023 Resident Didactic Lecture: Musculoskeletal Embolization
04/09/2024 Resident Didactic Lecture: Vertebral Augmentation, MSK Embolization, OR Basics of Ablation
06/03/2024 Fellow Didactic Lecture: Advanced Features of Siemens Machines
10/15/2024 Resident Didactic Lecture

Nursing Student Education

11/13/2020 Lecture for APP team: Central Venous Access Guidelines

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Medical Students

04/01/2022 - Present Isaac Lee, Research Advisor - Manuscript, Medical College of Wisconsin

Clinical/Research Fellows

07/01/2022 - 06/30/2023 Justin Greene, MD, Mentor, Medical College of Wisconsin
07/01/2022 - 06/30/2023 Kaila Redifer-Tremblay, MD, Mentor, Medical College of Wisconsin
07/01/2022 - 06/30/2023 Suraj Prakash, MD, Mentor, Medical College of Wisconsin
07/01/2022 - 06/30/2023 Marcus Jones, DO, Mentor, Medical College of Wisconsin

Residents

07/01/2020 - 06/30/2022 Suraj Prakash, MD, Mentor, Medical College of Wisconsin
07/01/2020 - 06/30/2024 Lawrence Lin, MD, Mentor, Medical College of Wisconsin
07/01/2020 - 06/30/2021 Aaditya Nagaraj, MD, Mentor, Medical College of Wisconsin
07/01/2020 - 06/30/2022 Brian Gump, DO, Mentor, Medical College of Wisconsin
07/01/2020 - 06/30/2025 Philip Skummer, MD, Mentor, Medical College of Wisconsin
07/01/2020 - 06/30/2022 Kaila Redifer-Tremblay, MD, Mentor, Medical College of Wisconsin
07/01/2020 - 06/30/2021 Osmani Deochand, MD, Mentor, Medical College of Wisconsin
07/01/2020 - 06/30/2025 Andrew Perez, MD, Mentor, Medical College of Wisconsin
07/01/2020 - 06/30/2024 Amer Rasheed, MD, Mentor, Medical College of Wisconsin
07/01/2021 - 06/30/2024 Jackson Bennett, MD, Mentor, Medical College of Wisconsin
07/01/2021 - 06/30/2022 Shantanu Warhadpande, MD, Mentor, Medical College of Wisconsin
07/01/2021 - 06/30/2022 Thaddeus Maguire, MD, Mentor, Medical College of Wisconsin
07/01/2021 - 06/30/2022 Gaurav Gadodia, MD, Mentor, Medical College of Wisconsin
07/01/2021 - 06/30/2024 Ritam Chowdhury, MBBS, Mentor, Medical College of Wisconsin
07/01/2022 - Present Patrick Moran, MD, Mentor, Medical College of Wisconsin
07/01/2022 - Present Sayeh Bozorghadad, MD, MEd, Mentor, Medical College of Wisconsin

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

Medical Students

06/01/2022 - 08/05/2022 Michael Kozuch, Summer Research Scholar-Designated Advisor, Society of Interventional Radiology

COMMUNITY SERVICE ACTIVITIES:

11/18/2023 Volunteer Event - Sandwich Building at the Guest House

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. **Key BM**, Scheidt MJ, Tutton SM. Advanced Interventional Pain Management Approach to Neoplastic Disease Outside the Spine. Tech Vasc Interv Radiol. 2020;23(4):100705. Epub 20201005. doi: 10.1016/j.tvir.2020.100705. PubMed PMID: 33308576.

2. Neilson JC, Wooldridge AN, **Key B**, Lea WB, Tutton SM, King DM. Minimally Invasive Stabilization of Periacetabular Metastasis. *Instr Course Lect.* 2021;70:475-92. PubMed PMID: 33438929.
3. **Key BM**, Symanski J, Scheidt MJ, Tutton SM. Vertebroplasty, Kyphoplasty, and Implant-Based Mechanical Vertebral Augmentation. *Semin Musculoskelet Radiol.* 2021;25(6):785-94. Epub 20211222. doi: 10.1055/s-0041-1739531. PubMed PMID: 34937118.
4. **Key BM**, Scheidt MJ, Wooldridge AN, Sag AA, Tutton SM. Image Guidance in Osteoplasty and Fixation. *Tech Vasc Interv Radiol.* 2022;25(1):100798. Epub 20220125. doi: 10.1016/j.tvir.2022.100798. PubMed PMID: 35248325.
5. Wooldridge AN, **Key B**, Neilson JC, Tutton SM, King DM. Local Control of Cancers With Various Ablation Techniques. *Instr Course Lect.* 2022;71:203-12. PubMed PMID: 35254783.
6. **Key BM**, Callstrom MR, Filippiadis D. Musculoskeletal Interventional Oncology: A Contemporary Review. *AJR Am J Roentgenol.* 2023;221(4):503-16. Epub 20230524. doi: 10.2214/AJR.23.29110. PubMed PMID: 37222277.
7. **Key BM**, Tutton SM, Scheidt MJ. Cone-Beam CT With Enhanced Needle Guidance and Augmented Fluoroscopy Overlay: Applications in Interventional Radiology. *AJR Am J Roentgenol.* 2023;221(1):92-101. Epub 20230222. doi: 10.2214/AJR.22.28712. PubMed PMID: 37095661.

Books, Chapters, and Reviews

1. **Key, BM.**, Tutton, SM. Musculoskeletal (MSK) Ablation. In: *Handbook of Interventional Radiologic Procedures, Sixth Edition.* Philadelphia: Wolters Kluwer; 2023. p. 584.
2. **Key, BM.**, Tutton, SM. Musculoskeletal Pain and Palliative Procedures. In: *Handbook of Interventional Radiologic Procedures, Sixth Edition.* Philadelphia: Wolters Kluwer; 2023. p. 598.

Abstracts

1. **Key, BM.**, Patel, PJ., White, SB., Rossi P., Hieb, RA., Scheidt, MJ., Tutton, SM., Rilling, WS. Safety and Efficacy of Angio-Seal for Hemostasis after PTFE Graft Access. *J Vasc Interv Radiol.* 31 (3): S85, 2020 Mar.
2. Zuberi, O., **Key, BM.**, Yevich, S. Complication Management After Percutaneous Screw Fixation by the Interventional Radiologist for Stabilization of Painful Pelvic Fractures and Lytic Defects in Cancer Patients. *J Vasc Interv Radiol.* 31 (3): S237, 2020 Mar.
3. Gadodia G, Smolock A, Tutton S, Kamaraju L, White S, **Key B**. Abstract No. 550 Safety and efficacy of ablation with and without osteoplasty for the treatment of osseous breast cancer metastases. *Journal of Vascular and Interventional Radiology.* 2022;33(6, Supplement):S204. doi: <https://doi.org/10.1016/j.jvir.2022.03.532>.
4. Mossahebi, P., Scheidt, MJ., Smolock, AR., Tutton, SM., **Key, BM**. Screw and Glue Primer: A Pictorial Essay Review of Pelvic Fluoroscopic Anatomy, Screw Fixation Corridors, and Augmented Fluoroscopy. Presented at the 2022 Society of Interventional Radiology (SIR) Annual Scientific Meeting, Boston, MA, 2022 Jun.
5. Perez, A., Skummer, PT., White, SB., Scheidt, MJ., Patel, PJ., Hieb, RA., Hohenwarter, EJ., Cristescu, MM., Haddad, MM., **Key, BM.**, Rilling, WS., Smolock, AR. Abstract No. 281 Characterizing the Learning Curve of Adopting Intracardiac Echo Guidance in Creation of Transjugular Intrahepatic Portosystemic Shunts. *Journal of Vascular and Interventional Radiology [Internet].* 2024 Mar 1;35(3):S124.
6. Lin, L., Skummer, PT., Smolock, AR., Hieb, RA., Hohenwarter, EJ., **Key, BM.**, Rilling, WS., Scheidt, MJ., White, SB., Patel, PJ. Patency of Iliocaval and Iliofemoral Venous Stenting. *Journal of Interventional Radiology.* 2024 Mar;35(3S):S174.
7. Moran, P., Haddad, MM., Tutton, S., **Key, BM.**, Scheidt, MJ., Wooldridge A. Abstract No. 50 Complications and Long-Term Outcomes of Percutaneous Pelvic Screw Fixation: A Large Single-Center Review. *Journal of Vascular and Interventional Radiology [Internet].* 2024 Mar 1;35(3):S24.