

CURRICULUM VITAE
Joshua Cornman-Homonoff, MD

Version Date: 08/20/2026

Appointment: Assistant Professor, Radiology and Biomedical Imaging, Clinician Educator Track
Primary Appointment: January 18, 2021 – June 30, 2029
Yale School of Medicine

Education:

08/2004-06/2008 AB, Biology and Spanish, Dartmouth College, Hanover, NH
08/2009-06/2014 MD, University of Pennsylvania School of Medicine, Philadelphia, PA

Career/Academic Appointments:

06/2014-06/2015 Intern, General Surgery, Brigham and Women's Hospital, Boston, MA
07/2015-06/2019 Resident, Diagnostic Radiology, New York Presbyterian/Weill Cornell Medical Center, New York, NY
06/2019-09/2020 Fellow, Interventional Radiology, Yale New Haven Hospital, New Haven, CT
01/2021-Present Assistant Professor, Interventional Radiology, Yale School of Medicine, New Haven, CT

Administrative Positions:

12/2025-Present Medical Director of Interventional Radiology, West Haven VA Medical Center

Board Certification:

04/25/2025 Interventional Radiology/Diagnostic Radiology, American Board of Radiology

Professional Honors & Recognition:

International/National/Regional

2017 Novelline Award, American Society of Emergency Radiology (awarded for best resident poster)
2013 Wellsford and Mildred Clark Medical Memorial Scholarship, Waterbury Medical Association

Residency

2017 MSKCC Oncologic Imaging Fellows Award (awarded to second-year resident deemed most helpful on call)

Medical School

2013 Botelho Prize for Excellence in Basic Science (awarded for highest score on USMLE Step 1)
2013 Carolyn L. Kuckein Student Research Fellowship, Alpha Omega Alpha (awarded for *Chromatin occupancy of Sirtuin 7 in human adipose tissue aging*)

Undergrad

2008 High Honors in Biology
2008 Magna Cum Laude
2008 Phi Beta Kappa
2008 Christopher G. Reed Biologist Award (awarded to a "graduating biology major with distinguished biological research career")

2008 James O. Freedman Presidential Scholar (awarded to outstanding students who become faculty research assistants during junior year and complete an honors thesis)

Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated with Yale:

International/National

1. “Imaging biomarkers for outcome prediction in liver tumor embolization.” Invited lecture. Spectrum, Miami, FL, 2022.
2. “Assessing the future liver remnant: What’s new in 2022?” Invited lecture. Society of Interventional Radiology, Boston, MA, 2022.
3. “Assessing the future liver remnant: What’s new in 2023?” Invited lecture. Society of Interventional Radiology, Phoenix, AZ, 2023.
4. “TIPS and DIPS: Interesting Cases” Invited lecture. Society of Interventional Radiology, Phoenix, AZ, 2023.
5. “Technical innovations in transarterial therapies for liver cancer.” Invited lecture. VEITHsymposium, New York City, NY, November 20, 2025.
6. “Embolization: Coils/Plugs/Particles/Liquid/Radioembolization.” Workshop. VEITHsymposium, New York City, NY, November 20, 2025.
7. “AI in Interventional Radiology: From Diagnosis to Treatment.” Invited lecture. AIMed Annual Celebratory Event, AIMDOCTOR, December 20, 2025.
8. “Case discussions of Interventional Radiology for liver patients.” Invited lecture. CT Liver SCAN, Veterans Health Administration Institute for Learning, Education, and Development, February 24, 2026.
9. “Modern approaches to PE interventions.” Invited lecture. Road2IR, March 12, 2026.
10. “PE and DVT Clinical Case Review.” Invited lecture. Emory University Department of Interventional Radiology & Image-Guided Medicine, Atlanta, Georgia, April 2, 2026.

Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated with Yale:

International/National

1. **Cornman-Homonoff J**, Percec I, Dierov R. Age-dependent change in expression of general aging markers and markers of cellular senescence in primary human adipose tissue. International Federation for Adipose Therapeutics and Science, New York, November 2013 (Oral presentation).
2. **Cornman-Homonoff J**, Kishore S, Waddell B, Westrich G, Potter H, Trost D. Selective geniculate artery embolization for management of recurrent hemarthrosis after total knee arthroplasty. Society of Interventional Radiology, Los Angeles, March 2018 (Oral presentation).

Professional Service:

Journals:

Editorial Boards

2025 Guest Editor, *Seminars in Interventional Radiology*, Enteric Interventions
 2026 Guest Editor, *Techniques in Vascular and Interventional Radiology*, Surgical Tips and Tricks

Professional Organizations:

Society of Interventional Radiology

2016-Present Member
 2021-Present Member, Standardized Reports Committee

Bibliography:**Peer-Reviewed Original Research**

1. Kemp BJ, Hatzold J, Sternick LA, **Cornman-Homonoff J**, Whitaker JM, Tieu PJ, Lambie EJ. In vivo construction of recombinant molecules within the *Caenorhabditis elegans* germ line using short regions of terminal homology. *Nucleic Acids Res.* 2007;35(19):e133. PMID: 17933760.
2. Kavasery R, Maru DS, **Cornman-Homonoff J**, Sylla LN, Smith D, Altice FL. Routine opt-out HIV testing strategies in a female jail setting: a prospective controlled trial. *PLoS One.* 2009 Nov 25;4(11):e7648. PMID: 19946370.
3. **Cornman-Homonoff J**, Kuehn D, Aros S, Carter TC, Conley MR, Troendle J, Cassorla F, Mills JL. Heavy prenatal alcohol exposure and risk of stillbirth and preterm delivery. *J Matern Fetal Neonatal Med.* 2012 Jun;25(6):860-3. PMID: 21728738.
4. Pangilinan F, Molloy AM, Mills JL, Troendle JF, Parle-McDermott A, Signore C, O'Leary VB, Chines P, Seay JM, Geiler-Samerotte K, Mitchell A, VanderMeer JE, Krebs KM, Sanchez A, **Cornman-Homonoff J**, Stone N, Conley M, Kirke PN, Shane B, Scott JM, Brody LC. Evaluation of common genetic variants in 82 candidate genes as risk factors for neural tube defects. *BMC Med Genet.* 2012 Aug 2;13:62. PMID: 22856873.
5. Hsu VM, Wes AM, Tahiri Y, **Cornman-Homonoff J**, Percec I. Quantified facial soft-tissue strain in animation measured by real-time dynamic 3-dimensional imaging. *Plast Reconstr Surg Glob Open.* 2014 Oct 7;2(9):e211. PMID: 25426394.
6. Chazen JL, **Cornman-Homonoff J**, Zhao Y, Sein M, Feuer N. MR neurography of the lumbosacral plexus for lower extremity radiculopathy: frequency of findings, characteristics of abnormal intraneural signal, and correlation with electromyography. *AJNR Am J Neuroradiol.* 2018 Nov;39(11):2154-2160. PMID: 30262644.
7. Kierans AS, Makkar J, Guniganti P, **Cornman-Homonoff J**, Lee M, Pittman M, Askin G, Hecht EM. Validation of Liver Imaging Reporting and Data System 2017 (LI-RADS) criteria for imaging diagnosis of hepatocellular carcinoma. *J Magn Reson Imaging.* 2019 Jun;49(7):e205-e215. PMID: 30257054.
8. O'Beirne SL, Chazen JL, **Cornman-Homonoff J**, Carey BT, Gelbman BD. Association between diaphragmatic paralysis and ipsilateral cervical spondylosis on MRI. *Lung.* 2019 Dec;197(6):727-733. PMID: 31535202.
9. Nezami N, Chockalingam A, **Cornman-Homonoff J**, Marino A, Pollak J, Mojibian H. Mechanical thrombectomy for pulmonary embolism in patients with patent foramen ovale. *CVIR Endovasc.* 2020 Nov 28;3(1):89. PMID: 33247349.
10. **Cornman-Homonoff J**, Kishore SA, Waddell BS, Kesler J, Mandl LA, Westrich GH, Potter HG, Trost DW. Genicular artery embolization for refractory hemarthrosis following total knee arthroplasty: technique, safety, efficacy, and patient-reported outcomes. *J Vasc Interv Radiol.* 2021 Aug;32(8):1128-1135. PMID: 33961990.
11. Deshmukh AP, Ali R, Madoff DC, Silin D, Zuckerman DA, **Cornman-Homonoff J**. Bowel injury during percutaneous radiologic gastrostomy tube placement: a case series. *J Vasc Interv Radiol.* 2023 Aug;34(8):1462-1465. PMID: 37164038.
12. **Cornman-Homonoff J**, Perez Lozada JC, Marino AG, Mojibian H. Use of a funneled sheath for embolic protection during removal of thrombosed Simon Nitinol filters. *Diagn Interv Radiol.* 2023 Aug 18. PMID: 37593925.
13. Bitar R, Bozal SB, Sisti A, Mojibian H, Marino AG, **Cornman-Homonoff J**. Effect of filtered blood return on outcomes of pulmonary aspiration thrombectomy. *J Vasc Interv Radiol.* 2024 Oct;35(10):1447-1456. PMID: 38950819.
14. Fish A, Knight E, Mutonga M, Moulton J, Gathagan R, Andrecu M, Sare A, **Cornman-Homonoff J**. The predictive value of Qandali and Miller index scores in patients with intermediate-high-risk and high-risk pulmonary emboli undergoing aspiration thrombectomy. *J Vasc Interv Radiol.* 2024 Oct;35(10):1457-1463. PMID: 38969337.

15. Thomas S, Deshmukh AP, Marino AG, Mojibian H, Perez Lozada JC, **Cornman-Homonoff J**. Mechanical clot disruption during pulmonary thromboemblectomy is safe: A propensity score matched analysis. *Clin Imaging*. 2025 Feb;118:110381. PMID: 39637758.
16. Sare A, Marino AG, Mojibian H, Perez Lozada JC, **Cornman-Homonoff J**. Use of a funneled sheath for embolic protection during deep venous thrombectomy. *J Vasc Interv Radiol*. 2026 Mar;37(3):107965. PMID: 41412303.
17. **Cornman-Homonoff J**, Conte M, Khosla A, Pollak J, Mojibian H. Five-year survival after large-bore mechanical thrombectomy for intermediate-high and high-risk pulmonary embolism: a single-center cohort. *J Thromb Haemost*. 2026 Jul;24(7):2555-2566. PMID: 41912032.
18. Conte M, Khosla A, Singh I, Hur J, Pollak J, Mojibian H, Marino A, Heerdt P, **Cornman-Homonoff J**. Comparative pulmonary artery pressure response between large-bore thrombectomy and catheter-directed thrombolysis in patients with intermediate-high- and high-risk PE. *J Vasc Interv Radiol*. 2026 Aug;37(8):108863. PMID: 42177020.
19. Narayanan K, Rajendran KM, **Cornman-Homonoff J**, Donowitz M, Binder H, Rajendran VM. Aldosterone suppresses Na⁺/H⁺ exchanger-3 expression through miR-204-5P-mediated post-transcriptional regulation in distal colon. *Am J Physiol Gastrointest Liver Physiol*. 2026 Aug 1;331(2):G277-G286. PMID: 42467551.

Peer-Reviewed Reviews, Practice Guidelines, Standards, and Consensus Statements

1. **Cornman-Homonoff J**, Holzwanger DJ, Lee KS, Madoff DC, Li D. Celiac plexus block and neurolysis in the management of chronic upper abdominal pain. *Semin Intervent Radiol*. 2017 Dec;34(4):376-386. PMID: 29249862.
2. **Cornman-Homonoff J**, Madoff DC. Image-guided biopsy of mesenteric, omental, and peritoneal disease. *Digestive Disease Interventions*. 2018;2(2):106-115.
3. Lin EY, **Cornman-Homonoff J**, Odisio BC, Madoff DC. Applications of transcatheter embolotherapy in preparation for liver transplantation and resection. *Chin Clin Oncol*. 2019 Dec;8(6):59. PMID: 31865716.
4. Kim D, **Cornman-Homonoff J**, Madoff DC. Preparing for liver surgery with “Alphabet Soup”: PVE, ALPPS, TAE-PVE, LVD and RL. *Hepatobiliary Surg Nutr*. 2020 Apr;9(2):136-151. PMID: 32355673.
5. Madoff DC, **Cornman-Homonoff J**, Fortune BE, Gaba RC, Lipnik AJ, Yarmohammadi H, Ray CE. Management of refractory ascites due to portal hypertension: current status. *Radiology*. 2021 Mar; 298(3):493-504. PMID: 33497318.
6. **Cornman-Homonoff J***, Rabiee A*, Kuntsman JW, Garcia-Tsao G, Taddei TH. Interventional radiology and surgical treatment options in non-cirrhotic portal hypertension. *Current Hepatology Reports*. 2023 22:269-275.
*co-first author
7. Chan SM, **Cornman-Homonoff J**, Lucatelli P, Madoff DC. Image-guided percutaneous strategies to improve the resectability of HCC: portal vein embolization, liver venous deprivation, or radiation lobectomy? *Clin Imaging*. 2024 Jul;111:110185. PMID: 38781614.
8. Kleven R, Ikeda I, **Cornman-Homonoff J**. Percutaneous radiologic gastrostomy tube placement techniques. *Semin Intervent Radiol*. 2025 Mar 31;42(1):9-16. PMID: 40342381.
9. Ikeda I, Kleven R, **Cornman-Homonoff J**. Percutaneous radiologic gastrostomy placement in challenging clinical scenarios. *Semin Intervent Radiol*. 2025 Mar 31;42(1):17-21. PMID: 40342380.
10. **Cornman-Homonoff J**, Razdan R, Perez Lozada JC. Anatomy of endovascular arteriovenous fistula creation. *Semin Intervent Radiol*. 2025 Mar 3;42(2):176-181. PMID: 40376219.
11. Sailer A, Dixe de Oliveira Santo I, Revzin MV, Mei Chan S, Borse RM, **Cornman-Homonoff J**, Cardella J, Perez Lozada JC, Marino AG. Imaging of arteriovenous fistulas: maturation, maintenance, and declotting. *Radiographics*. 2025 Jul;45(7):e230082. PMID: 40471834.
12. **Cornman-Homonoff J**, Fortune BE, Kolli KP, Kothary N, Nadolski G, Thornburg BG, Verma S, Madoff DC. Management of Ascites: AJR Expert Panel Narrative Review. *AJR Am J Roentgenol*. 2026 Jan;226(1):e2330768. PMID: 40202355.

Peer-Reviewed Case Reports and Technical Notes

1. **Cornman-Homonoff J**, Schweitzer A, Chazen JL. CT-guided epidural blood patch for treatment of CSF leak and pseudomeningocele following tethered cord release in a 3-year-old. *Clin Imaging*. 2016 Nov-Dec;40(6):1191-1194. PMID: 27596235.
2. **Cornman-Homonoff J**, Li D, Schiffman M. Pre-operative renal artery embolization and suprarenal IVC filter placement for prevention of fat embolization in renal angiomyolipoma with venous extension. *Clin Imaging*. 2017 May-Jun;43:24-27. PMID: 28167283.
3. **Cornman-Homonoff J**, Miller ZA, Smirniotopoulos J, May BJ, Winokur RS, Pua BB, Schiffman MH. Preoperative percutaneous microwave ablation of long bone metastases using a parallel medullary approach for reduction of operative blood loss. *J Vasc Interv Radiol*. 2017 Jul;28(7):1069-1071. PMID: 28645506.
4. **Cornman-Homonoff J**, Pereira N, Fenster TB, Schiffman MH. Transarterial embolization of a Bartholin cyst before resection. *J Minim Invasive Gynecol*. 2018 Sep-Oct;25(6):938-940. PMID: 29195798.
5. **Cornman-Homonoff J**, Formenti SC, Chachoua A, Madoff DC. Percutaneous cryoablation for the management of chronic pain secondary to locally recurrent rectal cancer with bowel and nerve root involvement. *J Vasc Interv Radiol*. 2018 Sep;29(9):1296-1298. PMID: 30146202.
6. **Cornman-Homonoff J**, Madoff DC. Direct percutaneous access and coil embolization for management of recurrent jejunal variceal hemorrhage in the setting of a pre-existing TIPS. *J Vasc Interv Radiol*. 2018 Nov;29(11):1626-1629. PMID: 30368320.
7. Schiffman MH, **Cornman-Homonoff J**, Sos TA. Percutaneous orthotopic IVC construction in a pediatric patient with symptomatic IVC agenesis. *Cardiovasc Intervent Radiol*. 2019 Feb;42(2):308-312. PMID: 30420997.
8. Nam D, Johnson MH, Mojibian H, Hebert RM, **Cornman-Homonoff J**. Development of paravertebral pseudoaneurysms following vertebral augmentation: A report of two cases. *Clin Imaging*. 2022 Oct;90:39-43. PMID: 35914342.
9. **Cornman-Homonoff J**, Parmar G, Perez Lozada JC, Marino AG. Use of a large-bore thrombectomy device for portal vein thrombectomy in the setting of prior transjugular intrahepatic portosystemic shunt reduction: A report of 2 cases. *J Vasc Interv Radiol*. 2023 Feb;34(2):310-312. PMID: 36283594.
10. **Cornman-Homonoff J**, Madoff DC. Role of cone-beam CT augmented by navigational software in the single-session management of gastrointestinal hemorrhage and infected deep postoperative fluid collections. *Clin Imaging*. 2019 Sep-Oct;57:21-24. PMID: 31102778.
11. **Cornman-Homonoff J**, Milsom JW, Schiffman MH. Management of recurrent sigmoid volvulus via nontransmural percutaneous colon fixation. *J Vasc Interv Radiol*. 2019 Oct;30(10):1669-1671. PMID: 31109854.
12. **Cornman-Homonoff J**, Fenster TB, Schiffman MH. Percutaneous drainage of an infected endometrioma. *Clin Imaging*. 2019 Nov-Dec;58:105-107. PMID: 31284177.
13. **Cornman-Homonoff J**, Kishore S, Camacho JC, Winokur RS. Intravascular ultrasound-guided extraction of free-floating inferior vena cava tumor thrombus using the ClotTrieve mechanical thrombectomy device. *J Vasc Interv Radiol*. 2019 Oct;30(10):1679-1682.e1. PMID: 31409570.
14. **Cornman-Homonoff J**, Holcomb K, Schiffman MH. Inferior mesenteric arterial supply to a symptomatic uterine myoma. *J Minim Invasive Gynecol*. 2020 Feb;27(2):248-249. PMID: 31299359.
15. **Cornman-Homonoff J**, Bassik N, Madoff DC. Transhepatic portal stent placement and jejunal varix embolization for management of treatment-limiting gastrointestinal bleeding in a patient with unresectable recurrent intrahepatic cholangiocarcinoma. *Clin Imaging*. 2020 Feb;59(2):188-191. PMID: 31837541.
16. Soliman MM, **Cornman-Homonoff J**, Schiffman MH. Incidental sonographic detection of bladder cancer in a woman with large uterine fibroids: significance and lessons learned. *Clin Imaging*. 2020 May;61:1-3. PMID: 31945687.
17. **Cornman-Homonoff J**, Zhou ZN, Fenster TB, Schiffman MH. Combination uterine artery embolization and hysteroscopic resection for a symptomatic uterine leiomyoma: A

- collaborative single-session approach for better patient care. *Clin Imaging*. 2021 Jan 30;77:111-116. PMID: 33667943.
18. Murtha TD, **Cornman-Homonoff J**, Ayyagari R, Zhang X, Salem RR. A novel treatment for metastatic serous cystadenocarcinoma using a microwave ablation: Case report and review of the literature. *Pancreas*. 2021 Mar 1;50(3):434-440. PMID: 33835976.
19. **Cornman-Homonoff J**, Hirsh JB, Goodwin EM, Roesch J, Marino A. Achievement of rapid venous hemostasis following large-bore catheter procedures. *Cath Lab Digest*. 2021 Nov.
20. Mabey JG, **Cornman-Homonoff J**, Madoff DC. Balloon-assisted radioembolization via the proper hepatic artery to treat a left liver hepatocellular carcinoma and portal vein tumor thrombus with an inaccessible left hepatic artery: A case report. *Clin Imaging*. 2021 Dec 7;82:244-250. PMID: 34920388.
21. Lee M, **Cornman-Homonoff J**, Madoff DC. Bronchial artery embolization for hemoptysis in a postpartum patient via cesarean section with COVID-19 while on extracorporeal membrane oxygenation. *Clin Imaging*. 2022 Mar;83:123-130. PMID: 35033849.
22. Deshmukh AP, **Cornman-Homonoff J**. Suction thrombectomy of catheter-associated right atrial thrombus in two patients. *J Vasc Access*. 2023 Mar 27;11297298231162879. PMID: 36971395.
23. Deshmukh A, Parmar G, Perez Lozada JC, **Cornman-Homonoff J**. Direct superior vena cava puncture for inferior vena cava filter retrieval. *Diagn Interv Radiol*. 2023 Jul 20;29(4):638-639. PMID: 36976151.
24. Atilas J, **Cornman-Homonoff J**, Schlachter T. Intravascular ultrasound-guided percutaneous creation of a gastric vein to cava shunt in a patient with hemorrhage and portal vein occlusion. *J Vasc Interv Radiol*. 2023 Jul;34(7):1278-1279. PMID: 37380248.
25. Megahed A, Atilas J, Schlachter T, **Cornman-Homonoff J**. Mesocaval shunt creation for treatment of bleeding ectopic varices in a patient with cavernous transformation of the portomesenteric system. *Cardiovasc Intervent Radiol*. 2023 Jul;46(7):973-975. PMID: 37043076.
26. Megahed A, Schlachter T, **Cornman-Homonoff J**. Large left varicocele in a patient with portal hypertension treated via transjugular intrahepatic portosystemic shunt placement and both variceal and varicocele embolization. *BMC Urol*. 2023 May 15;23(1):94. PMID: 37189067.
27. **Cornman-Homonoff J**, Deshmukh AP, Perez Lozada JC, Mojibian H. Bladder-induced compression of the external iliac veins: Recognition and implications for treatment. *Vasc endovascular surg*. 2023 Nov 14;15385744231216160. PMID: 37961845.
28. **Cornman-Homonoff J**, Marino AG, Mojibian H. Reverse sheathing technique for use of the Inari ClotTrieve in the presence of IVC filters. *CVIR Endovasc*. 2024 Feb 22;7(1):21. PMID: 38386113.
29. Jalili M, **Cornman-Homonoff J**. Suction thrombectomy for management of pulmonary tumor embolism in the setting of hepatocellular carcinoma with macrovascular invasion. *Radiol Case Rep*. 2024 Aug 7;19(10):4627-2630. PMID: 39220791.
30. Becker L, **Cornman-Homonoff J**. Spontaneous esophageal rupture resulting in formation of multiple pulmonary artery pseudoaneurysms: A case report. *Radiol Case Rep*. 2025 Apr 17;20(7):3352-3355. PMID: 40297258.

Chapters

1. **Cornman-Homonoff J**, Madoff DC. Chapter 39: Preoperative hepatic augmentation. *Handbook of Interventional Radiologic Procedures 6th Edition*.
2. Martinez ML, **Cornman-Homonoff J**, Johnson MH. Chapter 6: Vascular emergencies of the head and neck. *Handbook of Interventional Radiologic Procedures 6th Edition*.
3. Deshmukh AP, **Cornman-Homonoff J**. Mixed methods research. *Designing and Conducting Translational Research: Interventional Radiology*.
4. **Cornman-Homonoff J**, Perez Lozada JC. Basics of angiography and venography. *Brant and Helms' Fundamentals of Diagnostic Radiology 6th Edition*.

Commentaries, Editorials, and Letters

1. Madoff DC, **Cornman-Homonoff J**. Comment on “Rebleeding and mortality risk are increased by ACLF but reduced by pre-emptive TIPS”. *AJR Am J Roentgenol*. 2020 Oct 7. PMID: 33025807.
2. Roudenko A, Berman Z, **Cornman-Homonoff J**, Halin N, Kleedehn M, Fowler KJ, Mendiratta-Lalla M, Chernyak V, Sirlin CB, Cunha GM. Locoregional therapy of hepatocellular carcinoma: Reporting recommendations from the LI-RADS and Society of Interventional Radiology reporting committees to improve assessment of response. *J Vasc Interv Radiol*. 2023 Aug 7;S1051-0443(23)00570-5. PMID: 37557980.