Stanford



John D. Louie, MD

Clinical Professor, Radiology

CLINICAL OFFICE (PRIMARY)

- **Interventional Radiology**

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Bio

CLINICAL FOCUS

- Cancer
- Interventional Oncology
- Interventional Radiology

ACADEMIC APPOINTMENTS

- Clinical Professor, Radiology

PROFESSIONAL EDUCATION

- Board Certification: Interventional Radiology, American Board of Radiology (2017)
- Fellowship: Stanford University (2007) CA
- Residency, UC Davis , Radiology (2006)
- Internship: Kaiser Permanente San Francisco Internal Medicine Residency (2002) CA
- Medical Education: University of Southern California Keck School of Medicine (2001) CA
- BS, UC Berkeley , Chemistry (1997)
- BA, UC Berkeley , Molecular Cell Bilogy (1997)

LINKS

- Division Website: http://www.stanfordhospital.com/clinicsmedServices/medicalServices/interventionalRadiology/overview

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research interests focus on interventional oncology which include radioembolization (SIR Spheres and Theraspheres), chemoembolization, and ablation.

CLINICAL TRIALS

- Filter Initial & Long Term Evaluation After Placement and Retrieval Registry, Recruiting
- Selective Internal Radiation Therapy (SIRT) Using SIR-Spheres® Y-90 Resin Microspheres on DoR & ORR in Unresectable Hepatocellular Carcinoma Patients, Not Recruiting
- Efficacy Evaluation of TheraSphere Following Failed First Line Chemotherapy in Metastatic Colorectal Cancer, Not Specified

Publications

PUBLICATIONS

- **Transvenous Extrahepatic Portosystemic Shunts (TEPS): Intravascular Ultrasound-Guided Creation of Portocaval, Mesocaval, and Splenorenal Shunts.** *Journal of vascular and interventional radiology : JVIR*
  Gupta, A. N., Louie, J. D., Sze, D. Y.
  2026: 108596

- **Pulmonary interstitial lymphography: A prospective trial with potential impact on stereotactic ablative radiotherapy planning for early-stage lung cancer.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
  Ko, R. B., Abelson, J. A., Fleischmann, D., Louie, J. D., Hwang, G. L., Sze, D. Y., Schuler, E., Kielar, K. N., Maxim, P. G., Le, Q., Hara, W. H., Diehn, M., Kothary, et al
  2023: 110079

- **Efficacy and Safety of Trans-Arterial Yttrium-90 Radioembolization in Patients with Unresectable Liver-Dominant Metastatic or Primary Hepatic Soft Tissue Sarcomas.** *Cancers*
  Testa, S., Bui, N. Q., Wang, D. S., Louie, J. D., Sze, D. Y., Ganjoo, K. N.
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- **Evidence-Based Integration of Yttrium-90 Radioembolization in the Contemporary Management of Hepatic Metastases from Colorectal Cancer** *TECHNIQUES IN VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Wang, D. S., Louie, J. D., Sze, D. Y.
  2019; 22 (2): 74–80

- **Evidence-Based Integration of Yttrium-90 Radioembolization in the Contemporary Management of Hepatic Metastases from Colorectal Cancer.** *Techniques in vascular and interventional radiology*
  Wang, D. S., Louie, J. D., Sze, D. Y.
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- **Quantification of Activity Lost to Delivery-System Residual and Decay in Yttrium-90 Radioembolization** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Hoang, N. S., Khalaf, M. H., Rosenberg, J. K., Kwofie, J., Reposar, A. L., Wang, D. S., Louie, J. D., Sze, D. Y.
  2018; 29 (12): 1672–77

- **Quantification of Activity Lost to Delivery-System Residual and Decay in Yttrium-90 Radioembolization.** *Journal of vascular and interventional radiology : JVIR*
  Hoang, N. S., Khalaf, M. H., Rosenberg, J. K., Kwofie, J., Reposar, A. L., Wang, D. S., Louie, J. D., Sze, D. Y.
  2018

- **Clinical Trigonometry: Right Hepatic Trisegmentectomy After Radiation Trisegmentectomy for Hepatocellular Carcinoma** *DIGESTIVE DISEASES AND SCIENCES*
  Titan, A. L., Devereaux, K., Louie, J. D., Poultsides, G. A.
  2018; 63 (6): 1419–23

- **Determining the Optimal Number of Core Needle Biopsy Passes for Molecular Diagnostics** *CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY*
  Hoang, N. S., Ge, B. H., Pan, L. Y., Ozawa, M. G., Kong, C. S., Louie, J. D., Shah, R. P.
  2018; 41 (3): 489–95

- **A Novel High-Resolution Magnetic Resonance Imaging Protocol Detects Aldosterone-Producing Adenomas in Patients with Negative Computed Tomography.** *American journal of hypertension*
  Raber, I. n., Isom, R. T., Louie, J. D., Vasanawala, S. n., Bhalla, V. n.

2018

- **Recommendations for radioembolisation after liver surgery using yttrium-90 resin microspheres based on a survey of an international expert panel** *EUROPEAN RADIOLOGY*
  Samim, M., van Veenendaal, L. M., Braat, M. A., van den Hoven, A. F., Van Hillegersberg, R., Sangro, B., Kao, Y., Liu, D., Louie, J. D., Sze, D. Y., Rose, S. C., Brown, D. B., Ahmadzadehfar, et al
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- **Yttrium-90 Radioembolization for Unresectable Combined Hepatocellular-Cholangiocarcinoma (vol 40, pg 1383, 2017)** *CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY*
  Chan, L. S., Sze, D. Y., Poultsides, G. A., Louie, J. D., Abdelrazek Mohammed, M. A., Wang, D. S.
  2017; 40 (10): 1657

- **Yttrium-90 Radioembolization for Unresectable Combined Hepatocellular-Cholangiocarcinoma.** *Cardiovascular and interventional radiology*
  Chan, L. S., Sze, D. Y., Poultsides, G. A., Louie, J. D., Abdelrazek Mohammed, M. A., Wang, D. S.
  2017

- **The Role of Dual-Phase Cone-Beam CT in Predicting Short-Term Response after Transarterial Chemoembolization for Hepatocellular Carcinoma.** *Journal of vascular and interventional radiology*
  Müller, K., Datta, S., Gehrisch, S., Ahmad, M., Mohammed, M. A., Rosenberg, J., Hwang, G. L., Louie, J. D., Sze, D. Y., Kothary, N.
  2017; 28 (2): 238-245

- **Yttrium-90 Radioembolization with Resin Microspheres without Routine Embolization of the Gastroduodenal Artery.** *Journal of vascular and interventional radiology*
  Ward, T. J., Louie, J. D., Sze, D. Y.
  2017; 28 (2): 246-253

- **Noninvasive radiomics signature based on quantitative analysis of computed tomography images as a surrogate for microvascular invasion in hepatocellular carcinoma: a pilot study.** *Journal of medical imaging (Bellingham, Wash.)*
  Bakr, S. n., Echegaray, S. n., Shah, R. n., Kamaya, A. n., Louie, J. n., Napel, S. n., Kothary, N. n., Gevaert, O. n.
  2017; 4 (4): 041303

- **Superselective Chemoembolization of HCC: Comparison of Short-term Safety and Efficacy between Drug-eluting LC Beads, QuadraSpheres, and Conventional Ethiodized Oil Emulsion.** *Radiology*
  Duan, F., Wang, E. Q., Lam, M. G., Abdelmaksoud, M. H., Louie, J. D., Hwang, G. L., Kothary, N., Kuo, W. T., Hofmann, L. V., Sze, D. Y.
  2016; 278 (2): 612-621

- **Management of High Hepatopulmonary Shunting in Patients Undergoing Hepatic Radioembolization.** *Journal of vascular and interventional radiology*
  Ward, T. J., Tamrazi, A., Lam, M. G., Louie, J. D., Kao, P. N., Shah, R. P., Kadoch, M. A., Sze, D. Y.
  2015; 26 (12): 1751-1760

- **Core samples for radiomics features that are insensitive to tumor segmentation: method and pilot study using CT images of hepatocellular carcinoma.** *Journal of medical imaging (Bellingham, Wash.)*
  Echegaray, S., Gevaert, O., Shah, R., Kamaya, A., Louie, J., Kothary, N., Napel, S.
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- **Watershed Hepatocellular Carcinomas: The Risk of Incomplete Response following Transhepatic Arterial Chemoembolization.** *Journal of vascular and interventional radiology*
  Kothary, N., Takehana, C., Mueller, K., Sullivan, P., Tahvildari, A., Sidhar, V., Rosenberg, J., Louie, J. D., Sze, D. Y.
  2015; 26 (8): 1122-1129

- **Fusion dual-tracer SPECT-based hepatic dosimetry predicts outcome after radioembolization for a wide range of tumour cell types** *EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING*
  Lam, M. G., Banerjee, A., Goris, M. L., Iagaru, A. H., Mittra, E. S., Louie, J. D., Sze, D. Y.
  2015; 42 (8): 1192-1201

- **Emergent Salvage Direct Intrahepatic Portocaval Shunt Procedure for Acute Variceal Hemorrhage** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Ward, T. J., Techasith, T., Louie, J. D., Hwang, G. L., Hofmann, L. V., Sze, D. Y.
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- **Optimal imaging surveillance schedules after liver-directed therapy for hepatocellular carcinoma.** *Journal of vascular and interventional radiology*
  Boas, F. E., Do, B., Louie, J. D., Kothary, N., Hwang, G. L., Kuo, W. T., Hovsepian, D. M., Kantrowitz, M., Sze, D. Y.
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- **Getting the dead out: modern treatment strategies for necrotizing pancreatitis.** *Digestive diseases and sciences*
  Dua, M. M., Worhunsky, D. J., Amin, S., Louie, J. D., Park, W. G., Triadafilopoulos, G., Visser, B. C.
  2014; 59 (9): 2069-2075

- **Splenomegaly-associated thrombocytopenia after hepatic yttrium-90 radioembolization.** *Cardiovascular and interventional radiology*
  Lam, M. G., Banerjee, A., Louie, J. D., Sze, D. Y.
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- **Limitations of body surface area-based activity calculation for radioembolization of hepatic metastases in colorectal cancer.** *Journal of vascular and interventional radiology*
  Lam, M. G., Louie, J. D., Abdelmaksoud, M. H., Fisher, G. A., Cho-Phan, C. D., Sze, D. Y.
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- **Limitations of Body Surface Area-Based Activity Calculation for Radioembolization of Hepatic Metastases in Colorectal Cancer** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
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- **Root cause analysis of gastroduodenal ulceration after yttrium-90 radioembolization.** *Cardiovascular and interventional radiology*
  Lam, M. G., Banerjee, S., Louie, J. D., Abdelmaksoud, M. H., Iagaru, A. H., Ennen, R. E., Sze, D. Y.
  2013; 36 (6): 1536-1547

- **Prognostic utility of 90Y radioembolization dosimetry based on fusion 99mTc-macroaggregated albumin-99mTc-sulfur colloid SPECT.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
  Lam, M. G., Goris, M. L., Iagaru, A. H., Mittra, E. S., Louie, J. D., Sze, D. Y.
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- **Prognostic Utility of Y-90 Radioembolization Dosimetry Based on Fusion Tc-99m-Macroaggregated Albumin-Tc-99m-Sulfur Colloid SPECT** *JOURNAL OF NUCLEAR MEDICINE*
  Lam, M. G., Goris, M. L., Iagaru, A. H., Mittra, E. S., Louie, J. D., Sze, D. Y.
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- **Safety of (90)y radioembolization in patients who have undergone previous external beam radiation therapy.** *International journal of radiation oncology, biology, physics*
  Lam, M. G., Abdelmaksoud, M. H., Chang, D. T., Eclov, N. C., Chung, M. P., Koong, A. C., Louie, J. D., Sze, D. Y.
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- **Safety of repeated yttrium-90 radioembolization.** *Cardiovascular and interventional radiology*
  Lam, M. G., Louie, J. D., Iagaru, A. H., Goris, M. L., Sze, D. Y.
  2013; 36 (5): 1320-1328

- **Carbon Dioxide Contrast Enhancement for C-Arm CT Utility for Treatment Planning during Hepatic Embolization Procedures.** *Journal of vascular and interventional radiology*
  Wong, A. A., Charalel, R. A., Louie, J. D., Sze, D. Y.
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- **N-butyl Cyanoacrylate Glue Embolization of Arterial Networks to Facilitate Hepatic Arterial Skeletonization before Radioembolization.** *Cardiovascular and interventional radiology*
  Samuelson, S. D., Louie, J. D., Sze, D. Y.
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- **Prophylactic Topically Applied Ice to Prevent Cutaneous Complications of Nontarget Chemoembolization and Radioembolization** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Wang, D. S., Louie, J. D., Kothary, N., Shah, R. P., Sze, D. Y.
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- **Intra-arterial therapies for metastatic colorectal cancer.** *Seminars in interventional radiology*
  Wang, D. S., Louie, J. D., Sze, D. Y.
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  Wang, D. S., Louie, J. D., Sze, D. Y.
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- **Preoperative embolization of replaced right hepatic artery prior to pancreaticoduodenectomy** *JOURNAL OF SURGICAL ONCOLOGY*
  Cloyd, J. M., Chandra, V., Louie, J. D., Rao, S., Visser, B. C.
  2012; 106 (4): 509-512

- **Complex Retrieval of Embedded IVC Filters: Alternative Techniques and Histologic Tissue Analysis** *CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY*
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- **Applying a Structured Innovation Process to Interventional Radiology: A Single-Center Experience** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Sista, A. K., Hwang, G. L., Hovsepian, D. M., Sze, D. Y., Kuo, W. T., Kothary, N., Louie, J. D., Yamada, K., Hong, R., Dhanani, R., Brinton, T. J., Krummel, T. M., Makower, et al
  2012; 23 (4): 488-494

- **Yttrium-90 Radioembolization of Renal Cell Carcinoma Metastatic to the Liver** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Abdelmaksoud, M. H., Louie, J. D., Hwang, G. L., Kothary, N., Minor, D. R., Sze, D. Y.
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- **Transarterial Chemoembolization for Hepatocellular Carcinomas in Watershed Segments: Utility of C-Arm Computed Tomography for Treatment Planning** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Abdelmaksoud, M. H., Louie, J. D., Hwang, G. L., Sze, D. Y., Hofmann, L. V., Kothary, N.
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- **Intravascular Ultrasound-Guided Mesocaval Shunt Creation in Patients with Portal or Mesenteric Venous Occlusion** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Hong, R., Dhanani, R. S., Louie, J. D., Sze, D. Y.
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- **Percutaneous Cholecystostomy for Acute Cholecystitis: Ten-Year Experience** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Joseph, T., Unver, K., Hwang, G. L., Rosenberg, J., Sze, D. Y., Hashimi, S., Kothary, N., Louie, J. D., Kuo, W. T., Hofmann, L. V., Hovsepian, D. M.
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- **Imaging Guidance with C-arm CT: Prospective Evaluation of Its Impact on Patient Radiation Exposure during Transhepatic Arterial Chemoembolization** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
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- **Embolization of Parasitized Extrahepatic Arteries to Reestablish Intrahepatic Arterial Supply to Tumors before Yttrium-90 Radioembolization** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
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- **Consolidation of Hepatic Arterial Inflow by Embolization of Variant Hepatic Arteries in Preparation for Yttrium-90 Radioembolization** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Abdelmaksoud, M. H., Louie, J. D., Kothary, N., Hwang, G. L., Kuo, W. T., Hofmann, L. V., Hovsepian, D. M., Sze, D. Y.
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- **Photothermal Ablation with the Excimer Laser Sheath Technique for Embedded Inferior Vena Cava Filter Removal: Initial Results from a Prospective Study** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*

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- **Intrahepatic Collateral Supply to the Previously Embolized Right Gastric Artery: A Potential Pitfall for Nontarget Radioembolization** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
  Meer, A. B., Louie, J. D., Abdelmaksoud, M. H., Kothary, N., Hovsepian, D. M., Hofmann, L. V., Kuo, W. T., Hwang, G. L., Sze, D. Y.
  2011; 22 (4): 575-577

- **Common Iliac Vein Stenosis and Risk of Symptomatic Pulmonary Embolism: An Inverse Correlation** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
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- **C-arm Computed Tomography for Hepatic Interventions: A Practical Guide** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
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  Kothary, N., Dieterich, S., Louie, J. D., Chang, D. T., Hofmann, L. V., Sze, D. Y.
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- **Catheter-directed embolectomy, fragmentation, and thrombolysis for the treatment of massive pulmonary embolism after failure of systemic thrombolysis** *CHEST*
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