

# Stanford

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## Eric Olcott

Professor of Radiology (Veterans Affairs), Emeritus

### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty - University Medical Line, Radiology
- Member, Bio-X

#### ADMINISTRATIVE APPOINTMENTS

- Chief, Radiology Service, Veterans Affairs Palo Alto Health Care System, (2006-2012)

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Body imaging utilizing CT, ultrasound and MRI. Imaging of appendicitis. Imaging of pancreatic and biliary malignancies. Imaging of trauma. Magnetic resonance angiography.

### Publications

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#### PUBLICATIONS

- **The Borderline-Size Appendix: Grayscale, Color Doppler, and Spectral Doppler Findings That Improve Specificity for the Sonographic Diagnosis of Acute Appendicitis.** *Ultrasound quarterly*  
Madhuripan, N., Jawahar, A., Jeffrey, R. B., Olcott, E. W.  
2020
- **Hyperechoic Periappendiceal Fat: Evaluation of Criteria for Improving Specificity in the Sonographic Diagnosis of Appendicitis in Pediatric Patients.** *Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine*  
Penticuff, R., Jeffrey, R. B., Olcott, E. W.  
2020
- **Ileocolic vascular curvature: a new CT finding of cecal volvulus.** *Abdominal radiology (New York)*  
Wong, M., Brooke Jeffrey, R., Rucker, A. N., Olcott, E. W.  
2020
- **Hyperechoic Abdominal Fat A Sentinel Sign of Inflammation** *ULTRASOUND QUARTERLY*  
Chakraborty, A. K., Olcott, E. W., Jeffrey, B. R.  
2019; 35 (2): 186-94
- **Commentary on the article "Luminal obstruction in uncomplicated appendicitis: detection with sonography and potential clinical implications"**  
**Reply** *JOURNAL OF CLINICAL ULTRASOUND*  
Kuhn, K. J., Jeffrey, R., Olcott, E. W.  
2019; 47 (3): 121

- **Luminal obstruction in uncomplicated appendicitis: Detection with sonography and potential clinical implications** *JOURNAL OF CLINICAL ULTRASOUND*  
Kuhn, K. J., Jeffrey, R., Olcott, E. W.  
2019; 47 (3): 113–19
- **Reply by Author.** *Journal of clinical ultrasound : JCU*  
Kuhn, K. J., Brooke Jeffrey, R., Olcott, E. W.  
2019
- **Groove pancreatitis: a clinical and imaging overview.** *Abdominal radiology (New York)*  
Patel, B. N., Brooke Jeffrey, R. n., Olcott, E. W., Zaheer, A. n.  
2019
- **Luminal obstruction in uncomplicated appendicitis: Detection with sonography and potential clinical implications.** *Journal of clinical ultrasound : JCU*  
Kuhn, K. J., Brooke Jeffrey, R., Olcott, E. W.  
2018
- **Hyperechoic Abdominal Fat: A Sentinel Sign of Inflammation.** *Ultrasound quarterly*  
Chakraborty, A. K., Olcott, E. W., Jeffrey, B. R.  
2018
- **Sonography of the Cecum: Gateway to the Right Lower Quadrant** *ULTRASOUND QUARTERLY*  
Jeffrey, R., Wentland, A. L., Olcott, E. W.  
2018; 34 (3): 133–40
- **Sonography of the Cecum: Gateway to the Right Lower Quadrant.** *Ultrasound quarterly*  
Jeffrey, R. B., Wentland, A. L., Olcott, E. W.  
2018; 34 (3): 133–40
- **Radiologic Evaluation of Intrahepatic Cholangiocarcinoma Perineural Invasion** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Raghavan, K., Jeffrey, R., Olcott, E. W.  
2018; 210 (3): W129
- **Extrapancreatic perineural invasion in pancreatic adenocarcinoma** *ABDOMINAL RADIOLOGY*  
Patel, B. N., Olcott, E., Jeffrey, R.  
2018; 43 (2): 323–31
- **Delayed diagnosis of celiac stenosis causing hepatic transplant ischaemic necrosis: diagnosis by spectral Doppler findings.** *BJR case reports*  
Sun, M., Jeffrey, R. B., DiMaio, M. A., Olcott, E. W.  
2017; 3 (1): 20150210
- **Anatomic Reasons for Failure to Visualize the Appendix With Graded Compression Sonography: Insights From Contemporaneous CT** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Lin, W., Jeffrey, R., Trinh, A., Olcott, E. W.  
2017; 209 (3): W128–W138
- **Spectral Doppler Waveforms for Diagnosis of Appendicitis: Potential Utility of Point Peak Systolic Velocity and Resistive Index Values.** *Radiology*  
Shin, L. K., Jeffrey, R. B., Berry, G. J., Olcott, E. W.  
2017: 162251-?
- **Sonographic Differentiation of Complicated From Uncomplicated Appendicitis Implications for Antibiotics-First Therapy** *JOURNAL OF ULTRASOUND IN MEDICINE*  
Xu, Y., Jeffrey, R. B., Chang, S. T., DiMaio, M. A., Olcott, E. W.  
2017; 36 (2): 269-277
- **Capsule Ultrasound Device: Characterization and Testing Results**  
Wang, J., Memon, F., Touma, G., Baltsavias, S., Jang, J., Chang, C., Rasmussen, M., Olcott, E., Jeffrey, R., Arbabian, A., Khuri-Yakub, B. T., IEEE  
IEEE.2017
- **Delayed diagnosis of celiac stenosis causing hepatic transplant ischaemic necrosis: diagnosis by spectral Doppler findings** *BJR CASE REPORTS*

- Sun, M., Jeffrey, R., Dimaio, M. A., Olcott, E. W.  
2017; 3 (1)
- **Duodenal invasion by pancreatic adenocarcinoma: MDCT diagnosis of an aggressive imaging phenotype and its clinical implications.** *Abdominal radiology (New York)*  
Patel, B. N., Olcott, E. W., Jeffrey, R. B.  
2017
  - **Preoperative Multidetector CT Diagnosis of Extrapancreatic Perineural or Duodenal Invasion Is Associated with Reduced Postoperative Survival after Pancreaticoduodenectomy for Pancreatic Adenocarcinoma: Preliminary Experience and Implications for Patient Care** *RADIOLOGY*  
Chang, S. T., Jeffrey, R. B., Patel, B. N., DiMaio, M. A., Rosenberg, J., Willmann, J. K., Olcott, E. W.  
2016; 281 (3): 816-825
  - **Multidetector CT imaging of the pancreatic groove: differentiating carcinomas from paraduodenal pancreatitis** *CLINICAL IMAGING*  
Shin, L. K., Jeffrey, R. B., Pai, R. K., Raman, S. P., Fishman, E. K., Olcott, E. W.  
2016; 40 (6): 1246-1252
  - **Color Doppler Imaging of the Appendix: Criteria to Improve Specificity for Appendicitis in the Borderline-Size Appendix.** *Journal of ultrasound in medicine*  
Xu, Y., Jeffrey, R. B., Shin, L. K., DiMaio, M. A., Olcott, E. W.  
2016; 35 (10): 2129-2138
  - **Lymphoid Hyperplasia of the Appendix: A Potential Pitfall in the Sonographic Diagnosis of Appendicitis** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Xu, Y., Jeffrey, R. B., DiMaio, M. A., Olcott, E. W.  
2016; 206 (1): 189-194
  - **Capsule Ultrasound Device: Further Developments**  
Memon, F., Touma, G., Wang, J., Baltsavias, S., Moini, A., Chang, C., Rasmussen, M., Nikoozadeh, A., Choe, J., Olcott, E., Jeffrey, R., Arbabian, A., Khuri-Yakub, et al  
IEEE.2016
  - **MDCT Diagnosis of Perineural Invasion Involving the Celiac Plexus in Intrahepatic Cholangiocarcinoma: Preliminary Observations and Clinical Implications.** *AJR. American journal of roentgenology*  
Raghavan, K., Jeffrey, R. B., Patel, B. N., DiMaio, M. A., Willmann, J. K., Olcott, E. W.  
2015; 205 (6): W578-84
  - **MDCT Diagnosis of Perineural Invasion Involving the Celiac Plexus in Intrahepatic Cholangiocarcinoma: Preliminary Observations and Clinical Implications.** *AJR. American journal of roentgenology*  
Raghavan, K., Jeffrey, R. B., Patel, B. N., DiMaio, M. A., Willmann, J. K., Olcott, E. W.  
2015; 205 (6): W578-84
  - **Predictors of appendicitis on computed tomography among cases with borderline appendix size.** *Emergency radiology*  
Thompson, A. C., Olcott, E. W., Poulos, P. D., Jeffrey, R. B., Thompson, M. O., Rosenberg, J., Shin, L. K.  
2015; 22 (4): 385-394
  - **JOURNAL CLUB: The Alvarado Score as a Method for Reducing the Number of CT Studies When Appendiceal Ultrasound Fails to Visualize the Appendix in Adults.** *AJR. American journal of roentgenology*  
Jones, R. P., Jeffrey, R. B., Shah, B. R., Desser, T. S., Rosenberg, J., Olcott, E. W.  
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  - **The Alvarado Score as a Method for Reducing the Number of CT Studies When Appendiceal Ultrasound Fails to Visualize the Appendix in Adults** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Jones, R. P., Jeffrey, R. B., Shah, B. R., Desser, T. S., Rosenberg, J., Olcott, E. W.  
2015; 204 (3): 519-526
  - **Capsule Ultrasound Device**  
Memon, F., Touma, G., Wang, J., Baltsavias, S., Moini, A., Chang, C., Rasmussen, M., Nikoozadeh, A., Choe, J., Arbabian, A., Jeffrey, R., Olcott, E., Khuri-Yakub, et al  
IEEE.2015
  - **Three-step sequential positioning algorithm during sonographic evaluation for appendicitis increases appendiceal visualization rate and reduces CT use.** *AJR. American journal of roentgenology*

- Chang, S. T., Jeffrey, R. B., Olcott, E. W.  
2014; 203 (5): 1006-1012
- **Value of short-interval computed tomography when sonography fails to visualize the appendix and shows otherwise normal findings.** *Journal of ultrasound in medicine*  
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  - **Model-based Iterative Reconstruction Compared to Adaptive Statistical Iterative Reconstruction and Filtered Back-projection in CT of the Kidneys and the Adjacent Retroperitoneum.** *Academic radiology*  
Olcott, E. W., Shin, L. K., Sommer, G., Chan, I., Rosenberg, J., Molvin, F. L., Boas, F. E., Fleischmann, D.  
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  - **The sonographic "bright band sign" of splenic infarction.** *Journal of ultrasound in medicine*  
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  - **Sonography of the normal appendix: its varied appearance and techniques to improve its visualization.** *Ultrasound quarterly*  
Ung, C., Chang, S. T., Jeffrey, R. B., Patel, B. N., Olcott, E. W.  
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  - **Sonographic Evaluation of Cervical Lymph Nodes in Papillary Thyroid Cancer** *ULTRASOUND QUARTERLY*  
Shin, L. K., Olcott, E. W., Jeffrey, R. B., Desser, T. S.  
2013; 29 (1): 25-32
  - **Three-dimensional volume-rendered multidetector CT imaging of the posterior inferior pancreaticoduodenal artery: its anatomy and role in diagnosing extrapancreatic perineural invasion.** *Cancer imaging*  
Patel, B. N., Giacomini, C., Jeffrey, R. B., Willmann, J. K., Olcott, E.  
2013; 13 (4): 580-590
  - **Three-dimensional volume-rendered multidetector CT imaging of the posterior inferior pancreaticoduodenal artery: its anatomy and role in diagnosing extrapancreatic perineural invasion** *CANCER IMAGING*  
Patel, B. N., Giacomini, C., Jeffrey, R. B., Willmann, J. K., Olcott, E.  
2013; 13 (4): 580-590
  - **Sonography for appendicitis: Nonvisualization of the appendix is an indication for active clinical observation rather than direct referral for computed tomography** *JOURNAL OF CLINICAL ULTRASOUND*  
Stewart, J. K., Olcott, E. W., Jeffrey, R. B.  
2012; 40 (8): 455-461
  - **MR Enterography in Crohn Disease With Endoscopic Correlation: Protocol, Pearls, and Pitfalls** *Annual Meeting of the American-Roentgen-Ray-Society*  
Jones, R., Olcott, E., Shah, S., Jeffrey, R., Do, B., Shin, L.  
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  - **Split-bolus MDCT urography with synchronous nephrographic and excretory phase enhancement** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Chow, L. C., Kwan, S. W., Olcott, E. W., Sommer, G.  
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  - **Evaluation of lung nodule growth measurement for MDCT exams with different dosages using synthetic nodules**  
Zhang, X., Chui, H., Olcott, E., Raffy, P., Yu, N., Giger, M. L., Karssemeijer, N.  
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  - **CT colonography: Influence of 3D viewing and polyp candidate features on interpretation with computer-aided detection** *RADIOLOGY*  
Shi, R., Schraedley-Desmond, P., Napel, S., Olcott, E. W., Jeffrey, R. B., Yee, J., Zalis, M. E., Margolis, D., Paik, D. S., Sherbondy, A. J., Sundaram, P., Beaulieu, C. F.  
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- **Computed tomography colonography - Feasibility of computer-aided polyp detection in a "First reader" paradigm** *88th Scientific Assembly and Annual Meeting of the Radiological-Society-of-North-America*  
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- **CT colonography: Improved polyp detection sensitivity and efficiency with computer aided detection (CAD)** *88th Scientific Assembly and Annual Meeting of the Radiological-Society-of-North-America*  
Mani, A., Napel, S. S., Paik, D. S., Olcott, E. W., Yee, J., Beaulieu, C. F.  
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- **Imaging of skeletal muscle function using (18)FDG PET: force production, activation, and metabolism** *JOURNAL OF APPLIED PHYSIOLOGY*  
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- **Focal liver lesions: Pattern-based classification scheme for enhancement at arterial phase CT** *RADIOLOGY*  
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- **Aortic aneurysmal disease: Assessment of stent-graft treatment - CT versus conventional angiography** *RADIOLOGY*  
Armerding, M. D., Rubin, G. D., Beaulieu, C. F., Slonim, S. M., Olcott, E. W., Samuels, S. L., Jorgensen, M. J., Semba, C. P., Jeffrey, R. B., Dake, M. D.  
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- **High-resolution three-dimensional in vivo imaging of atherosclerotic plaque** *MAGNETIC RESONANCE IN MEDICINE*  
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- **Magnetic resonance imaging of postpartum pelvic hematomas: Early experience in diagnosis and treatment planning** *MAGNETIC RESONANCE IMAGING*  
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- **Advantages of performing sonourethrography with lidocaine hydrochloride jelly in a prepackaged delivery system** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Desser, T. S., Nino-Murcia, M., Olcott, E. W., Terris, M. K.  
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Sommer, G., Olcott, E. W., Tai, L.  
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1999; 20 (2): 136-141
- **Ultra-short echo-time 2D time-of-flight MR angiography using a half-pulse excitation** *MAGNETIC RESONANCE IN MEDICINE*  
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  - **Power Doppler imaging in preoperative planning and postoperative monitoring of muscle flaps** *JOURNAL OF CLINICAL ULTRASOUND*  
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  - **Three-dimensional flow-independent peripheral angiography** *MAGNETIC RESONANCE IN MEDICINE*  
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  - **Accuracy of detection and measurement of renal calculi: In vitro comparison of three-dimensional spiral CT, radiography, and nephrotomography** *RADIOLOGY*  
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  - **Guidelines regarding HIV and other bloodborne pathogens in vascular/interventional radiology** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
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  - **Still the great mimicker: Abdominal tuberculosis** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
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- **Improved 2D time-of-flight angiography using a radial-line k-space acquisition** *MAGNETIC RESONANCE IN MEDICINE*  
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