

# Stanford

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## Eric Olcott

Professor of Radiology (Veterans Affairs) at the Palo Alto Veterans Affairs Health Care System

### CLINICAL OFFICES

- **VA Palo Alto Health Care System Dept of Radiology**

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### Bio

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### CLINICAL FOCUS

- Diagnostic Radiology
- Imaging of appendicitis
- Imaging of pancreatic and biliary malignancies
- Ultrasound
- Computed tomography (CT)
- Magnetic resonance imaging (MRI)
- Pancreatic MDCT
- Hepatic MDCT
- Advanced image processing

### ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Radiology
- Member, Bio-X

### ADMINISTRATIVE APPOINTMENTS

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

### PROFESSIONAL EDUCATION

- Fellowship: UCSF Medical Center (1989) CA
- Residency: UCSF Medical Center (1988) CA
- Fellowship: UCSF Medical Center (1988) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (1988)
- Internship: Pacific Presbyterian Med Ctr (1984) CA
- Medical Education: Stanford University School of Medicine (1983) CA

## 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
- **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

- **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)
- **Delayed diagnosis of celiac stenosis causing hepatic transplant ischaemic necrosis: diagnosis by spectral Doppler findings.** *BJR case reports*  
Sun, M. n., Jeffrey, R. B., DiMaio, M. A., Olcott, E. W.  
2017; 3 (1): 20150210
- **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., Poullos, 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.  
2015; 204 (3): 519-526
- **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*  
Shah, B. R., Stewart, J., Jeffery, R. B., Olcott, E. W.  
2014; 33 (9): 1589-1595
- **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.  
2014; 21 (6): 774-784
- **The sonographic "bright band sign" of splenic infarction.** *Journal of ultrasound in medicine*  
Llewellyn, M. E., Jeffrey, R. B., DiMaio, M. A., Olcott, E. W.  
2014; 33 (6): 929-938
- **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.  
2013; 29 (4): 333-341
- **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.  
AMER ROENTGEN RAY SOC.2012
- **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.  
2007; 189 (2): 314-322
- **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.  
SPIE-INT SOC OPTICAL ENGINEERING.2007
- **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.  
2006; 239 (3): 768-776
- **Measurement of renal extraction fraction with contrast-enhanced CT** *RADIOLOGY*  
Sommer, G., Olcott, E. W., Chow, L. C., Saket, R. R., Schraedley-Desmond, P.  
2005; 236 (3): 1029-1033
- **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*  
Mani, A., Napel, S., Paik, D. S., Jeffrey, R. B., Yee, J., Olcott, E. W., Prokesch, R., Davila, M., Schraedley-Desmond, P., Beaulieu, C. F.  
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- **Guidelines regarding HIV and other bloodborne pathogens in vascular/interventional radiology.** *Journal of vascular and interventional radiology*  
Hansen, M. E., Bakal, C. W., Dixon, G. D., Eschelman, D. J., Horton, K. M., Katz, M., Olcott, E. W., Sacks, D.  
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- **Rapid measurement of time-averaged blood flow using ungated spiral phase-contrast** *MAGNETIC RESONANCE IN MEDICINE*  
Park, J. B., Olcott, E. W., Nishimura, D. G.  
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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.  
RADIOLOGICAL SOC NORTH AMERICA.2002: 304-304
- **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*  
Nino-Murcia, M., Olcott, E. W., Jeffrey, R. B., Lamm, R. L., Beaulieu, C. F., Jain, K. A.  
2000; 215 (3): 746-751
- **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.  
2000; 215 (1): 138-146
- **High-resolution three-dimensional in vivo imaging of atherosclerotic plaque** *MAGNETIC RESONANCE IN MEDICINE*  
Luk-Pat, G. T., Gold, G. E., Olcott, E. W., Hu, B. S., Nishimura, D. G.  
1999; 42 (4): 762-771

- **Flow quantification using low-spatial-resolution and low-velocity-resolution velocity images** *MAGNETIC RESONANCE IN MEDICINE*  
Tsai, C. H., Olcott, E. W., Nishimura, D. G.  
1999; 42 (4): 682-690
- **Magnetic resonance imaging of postpartum pelvic hematomas: Early experience in diagnosis and treatment planning** *MAGNETIC RESONANCE IMAGING*  
Jain, K. A., Olcott, E. W.  
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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.  
1999; 173 (1): 39-40
- **Liver tumors: Utility of characterization at dual-frequency US** *RADIOLOGY*  
Sommer, G., Olcott, E. W., Tai, L.  
1999; 211 (3): 629-636
- **Unenhanced CT in the evaluation of urinary calculi: Application of advanced computer methods** *SEMINARS IN ULTRASOUND CT AND MRI*  
Olcott, E. W., Sommer, F. G.  
1999; 20 (2): 136-141
- **Ultra-short echo-time 2D time-of-flight MR angiography using a half-pulse excitation** *MAGNETIC RESONANCE IN MEDICINE*  
Nielsen, H. T., Gold, G. E., Olcott, E. W., Pauly, J. M., Nishimura, D. G.  
1999; 41 (3): 591-599
- **Effects of niacin therapy that simulate neoplasia: Hepatic steatosis with concurrent hepatic dysfunction** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*  
Kristensen, T., Olcott, E. W.  
1999; 23 (2): 314-317
- **Differentiation of hepatic malignancies from hemangiomas and cysts by T2 relaxation times: Early experience with multiply refocused four-echo imaging at 1.5 T** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Olcott, E. W., Li, K. C., Wright, G. A., Pattarelli, P. P., Katz, D. S., Ch'en, I. Y., Daniel, B. L.  
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- **Urinary bladder pseudolesions on contrast-enhanced helical CT: Frequency and clinical implications** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
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- **Dual-phase helical CT of locally invasive pancreatic adenocarcinoma.** *Journal of computer assisted tomography*  
Nino-Murcia, M., Olcott, E. W., Jeffrey, R. B.  
1998; 22 (2): 282-287
- **Pictorial essay - Dual-phase helical CT of locally invasive pancreatic adenocarcinoma** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*  
Nino-Murcia, M., Olcott, E. W., Jeffrey, R. B.  
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- **Power Doppler imaging in preoperative planning and postoperative monitoring of muscle flaps** *JOURNAL OF CLINICAL ULTRASOUND*  
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- **An unusual acute compression fracture of the thoracolumbar spine** *ORTHOPEDICS*  
Cheng, J. C., Olcott, E. W., Paiement, G. D.  
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- **Three-dimensional flow-independent peripheral angiography** *MAGNETIC RESONANCE IN MEDICINE*  
Brittain, J. H., Olcott, E. W., Szuba, A., Gold, G. E., Wright, G. A., Irrarazaval, P., Nishimura, D. G.  
1997; 38 (3): 343-354
- **Accuracy of detection and measurement of renal calculi: In vitro comparison of three-dimensional spiral CT, radiography, and nephrotomography** *RADIOLOGY*

- Olcott, E. W., Sommer, F. G., Napel, S.  
1997; 204 (1): 19-25
- **Guidelines regarding HIV and other bloodborne pathogens in vascular/interventional radiology** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
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1997; 8 (4): 667-676
  - **Guidelines regarding HIV and other bloodborne pathogens in vascular/interventional radiology. SCVIR Technology Assessment Committee.** *Journal of vascular and interventional radiology*  
Hansen, M. E., Bakal, C. W., Dixon, G. D., Eschelmann, D. J., Horton, K. M., Katz, M., Olcott, E. W., Sacks, D.  
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  - **Still the great mimicker: Abdominal tuberculosis** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Jadvar, H., Mindelzun, R. E., Olcott, E. W., Levitt, D. B.  
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  - **Endoscopic sclerotherapy compared with percutaneous transjugular intrahepatic portosystemic shunt after initial sclerotherapy in patients with acute variceal hemorrhage - A randomized, controlled trial** *ANNALS OF INTERNAL MEDICINE*  
Cello, J. P., Ring, E. J., Olcott, E. W., KOCH, J., Gordon, R., Sandhu, J., Morgan, D. R., Ostroff, J. W., Rockey, D. C., Bacchetti, P., Laberge, J., Lake, J. R., Somberg, et al  
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  - **Volume rendering of CT data: Applications to the genitourinary tract** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Sommer, F. G., Olcott, E. W., Chen, I., Beaulieu, C. F.  
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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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  - **EXTRALUMINAL, TRANSLUMINAL, AND OBSERVATIONAL TREATMENT FOR VERTEBRAL ARTERY INJURIES** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*  
Yee, L. F., Olcott, E. W., Knudson, M. M., Lim, R. C.  
1995; 39 (3): 480-486
  - **CATHETER TRACT HEMORRHAGE DURING PERCUTANEOUS BILIARY INTERVENTION - MANAGEMENT WITH USE OF A RETAINED TRANSHEPATIC GUIDE-WIRE** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Olcott, E. W., Saxon, R. R., Ring, E. J., Gordon, R. L.  
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  - **MORBIDITY AND MORTALITY FOLLOWING MAJOR PENETRATING LIVER INJURIES** *ARCHIVES OF SURGERY*  
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- **FATAL REEXPANSION PULMONARY-EDEMA FOLLOWING PLEURAL CATHETER PLACEMENT** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
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- **SONOGRAPHICALLY DETECTED TESTICULAR MICROLITHIASIS AND TESTICULAR-CARCINOMA** *JOURNAL OF CLINICAL ULTRASOUND*  
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1993; 35 (4): 288-292
- **IMAGING OF BLUNT HEPATIC-TRAUMA** *RADIOLOGIC CLINICS OF NORTH AMERICA*  
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1991; 29 (6): 1299-1310
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- **LYMPHOMA PRESENTING AS ALLOGRAFT HEMATOMA IN A RENAL-TRANSPLANT RECIPIENT** *JOURNAL OF ULTRASOUND IN MEDICINE*  
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1990; 9 (4): 239-241
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Olcott, E. W., Gordon, R. L., Ring, E. J.  
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