



## David Hovsepian, MD

Clinical Professor, Radiology - Pediatric Radiology

 Curriculum Vitae available Online

### CLINICAL OFFICE (PRIMARY)

- Lucile Packard Childrens Hospital Pediatric Interventional Radiology

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### Bio

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#### CLINICAL FOCUS

- Radiology
- Interventional Radiology

#### ACADEMIC APPOINTMENTS

- Clinical Professor, Radiology - Pediatric Radiology
- Member, Bio-X

#### ADMINISTRATIVE APPOINTMENTS

- Associate Director of Radiology Quality and Safety, Department of Radiology, (2015- present)
- Chief Quality and Safety Officer, Department of Radiology, (2007-2015)

#### PROFESSIONAL EDUCATION

- Board Certification: Interventional Radiology, American Board of Radiology (2017)
- Fellowship: Thomas Jefferson University Radiology Residency (1993) PA
- Residency: New York Presbyterian Columbia Campus Radiology Residency (1991) NY
- Internship: Overlook Medical Center - Atlantic Health System (1987) NJ
- Medical Education: Columbia University College of Physicians and Surgeons (1986) NY

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am interested in the diagnosis and treatment of vascular malformations in both children and adults; all aspects of gynecological intervention, especially uterine fibroid embolization; and in the developing sciences of quality, safety, and radiology informatics.

## CLINICAL TRIALS

- Filter Initial & Long Term Evaluation After Placement and Retrieval Registry, Recruiting

## Publications

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### PUBLICATIONS

- **First-in-Human Study with Eight Patients Using an Absorbable Vena Cava Filter for the Prevention of Pulmonary Embolism.** *Journal of vascular and interventional radiology : JVIR*  
Elizondo, G. n., Eggers, M. n., Falcon, M. n., Trevino, M. n., Marrufo, R. n., Perez, C. n., Nunez, E. n., Moreno, R. n., Mitchell, A. n., Sheppard, A. n., Dria, S. n., Jay, T. n., Kirk, et al  
2020
- **Evaluation of the routine use of pelvic MRI in women presenting with symptomatic uterine fibroids: When is pelvic MRI useful?** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Kim-Nhien Vu, Fast, A. M., Shaffer, R. K., Rosenberg, J., Dababou, S., Marrocchio, C., Vasanaawala, S. S., Lum, D. A., Chen, B., Hovsepian, D. M., Ghanouni, P.  
2019; 49 (7): E271–E281
- **Are fibroid and bony pelvis characteristics associated with urinary and pelvic symptom severity?**  
Shaffer, R. K., Dobberfuhr, A. D., Vu, K., Fast, A. M., Dababou, S., Marrocchio, C., Lum, D. A., Hovsepian, D. M., Ghanouni, P., Chen, B.  
MOSBY-ELSEVIER.2019
- **Are Fibroid and Bony Pelvis Characteristics Associated with Urinary and Pelvic Symptom Severity?** *American journal of obstetrics and gynecology*  
Shaffer, R. K., Dobberfuhr, A. D., Vu, K., Fast, A. M., Dababou, S., Marrocchio, C., Lum, D. A., Hovsepian, D. M., Ghanouni, P., Chen, B.  
2019
- **Transesophageal Echocardiographic Observation of Caval Thrombus Followed by Intraoperative Placement of Inferior Vena Cava Filter for Presumed Pulmonary Embolism During Cesarean Hysterectomy for Placenta Percreta: A Case Report A & A PRACTICE**  
Nanji, J. A., Ansari, J. R., Yurashevich, M., Ismawan, J. M., Lyell, D. J., Karam, A. K., Hovsepian, D. M., Riley, E. T.  
2019; 12 (2): 37–40
- **Evaluation of the routine use of pelvic MRI in women presenting with symptomatic uterine fibroids: When is pelvic MRI useful?** *Journal of magnetic resonance imaging : JMIR*  
Vu, K., Fast, A. M., Shaffer, R. K., Rosenberg, J., Dababou, S., Marrocchio, C., Vasanaawala, S. S., Lum, D. A., Chen, B., Hovsepian, D. M., Ghanouni, P.  
2019
- **Yellow nail syndrome with chylothorax after coronary artery bypass grafting.** *Journal of cardiothoracic surgery*  
Waliany, S., Chandler, J., Hovsepian, D., Boyd, J., Lui, N.  
2018; 13 (1): 93
- **Yellow nail syndrome with chylothorax after coronary artery bypass grafting** *JOURNAL OF CARDIOTHORACIC SURGERY*  
Waliany, S., Chandler, J., Hovsepian, D., Boyd, J., Lui, N.  
2018; 13
- **Transesophageal Echocardiographic Observation of Caval Thrombus Followed by Intraoperative Placement of Inferior Vena Cava Filter for Presumed Pulmonary Embolism During Cesarean Hysterectomy for Placenta Percreta: A Case Report.** *A&A practice*  
Nanji, J. A., Ansari, J. R., Yurashevich, M., Ismawan, J. M., Lyell, D. J., Karam, A. K., Hovsepian, D. M., Riley, E. T.  
2018
- **Treatment of Low-Flow Vascular Malformations of the Extremities Using MR-Guided High Intensity Focused Ultrasound: Preliminary Experience** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Ghanouni, P., Kishore, S., Lungren, M. P., Bitton, R., Chan, L., Avedian, R., Bazzocchi, A., Pauly, K., Napoli, A., Hovsepian, D. M.  
2017; 28 (12): 1739–44
- **Administering Blood Products Before Selected Interventional Radiology Procedures: Developing, Applying, and Monitoring a Standardized Protocol** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*  
Hoang, N. S., Kothary, N., Saharan, S., Rosenberg, J., Tran, A. A., Brown, S. B., Hovsepian, D. M.

2017; 14 (11): 1438-43

- **Rendezvous EndoSeel Technique for Non-operative Closure of Anastomotic Leak After Ileoanal Pouch Operation** *DIGESTIVE DISEASES AND SCIENCES*  
Thosani, N., Sethi, S., Hovsepian, D., Kochar, R., Welton, M., Banerjee, S.  
2015; 60 (12): 3545-3548
- **Treatment of complex periorbital venolymphatic malformation in a neonate with a combination therapy of sirolimus and prednisolone.** *Dermatologic therapy*  
Kim, D., Benjamin, L., Wysong, A., Hovsepian, D., Teng, J.  
2015; 28 (4): 218-221
- **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.  
2015; 26 (1): 69-73
- **Tract Embolization With Gelatin Sponge Slurry for Prevention of Pneumothorax After Percutaneous Computed Tomography-Guided Lung Biopsy** *CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY*  
Tran, A. A., Brown, S. B., Rosenberg, J., Hovsepian, D. M.  
2014; 37 (6): 1546-1553
- **Tract embolization with gelatin sponge slurry for prevention of pneumothorax after percutaneous computed tomography-guided lung biopsy.** *Cardiovascular and interventional radiology*  
Tran, A. A., Brown, S. B., Rosenberg, J., Hovsepian, D. M.  
2014; 37 (6): 1546-1553
- **Correlation of the Diameter of the Left Common Iliac Vein with the Risk of Lower-extremity Deep Venous Thrombosis** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Carr, S., Chan, K., Rosenberg, J., Kuo, W. T., Kothary, N., Hovsepian, D. M., Sze, D. Y., Hofmann, L. V.  
2012; 23 (11): 1467-1472
- **Uteroenteric Fistula Resulting From Fibroid Expulsion After Uterine Fibroid Embolization: Case Report and Review of the Literature** *CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY*  
Gutierrez, L. B., Bansal, A. K., Hovsepian, D. M.  
2012; 35 (5): 1231-1236
- **Complex Retrieval of Embedded IVC Filters: Alternative Techniques and Histologic Tissue Analysis** *CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY*  
Kuo, W. T., Cupp, J. S., Louie, J. D., Kothary, N., Hofmann, L. V., Sze, D. Y., Hovsepian, D. M.  
2012; 35 (3): 588-597
- **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
- **Cancer-Associated Aorto-Enteric Fistula** *DIGESTIVE DISEASES AND SCIENCES*  
Singh, S., Ladabaum, U., Hovsepian, D. M., Triadafilopoulos, G.  
2012; 57 (3): 625-629
- **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.  
2012; 23 (1): 83-88
- **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*  
Kothary, N., Abdelmaksoud, M. H., Tognolini, A., Fahrig, R., Rosenberg, J., Hovsepian, D. M., Ganguly, A., Louie, J. D., Kuo, W. T., Hwang, G. L., Holzer, A., Sze, D. Y., Hofmann, et al  
2011; 22 (11): 1535-1544

- **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.  
2011; 22 (10): 1364-1372
- **Embolization of Parasitized Extrahepatic Arteries to Reestablish Intrahepatic Arterial Supply to Tumors before 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.  
2011; 22 (10): 1355-1362
- **Portal Venous Remodeling After Endovascular Reduction of Pediatric Autogenous Portosystemic Shunts** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Stewart, J. K., Kuo, W. T., Hovsepian, D. M., Hofmann, L. V., Bonham, C. A., Sze, D. Y.  
2011; 22 (8): 1199-1205
- **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*  
Kuo, W. T., Odegaard, J. I., Louie, J. D., Sze, D. Y., Unver, K., Kothary, N., Rosenberg, J. K., Hovsepian, D. M., Hwang, G. L., Hofmann, L. V.  
2011; 22 (6): 813-823
- **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*  
Chan, K. T., Papat, R. A., Sze, D. Y., Kuo, W. T., Kothary, N., Louie, J. D., Hovsepian, D. M., Hwang, G. L., Hofmann, L. V.  
2011; 22 (2): 133-141
- **Renewing Focus on Resident Education: Increased Responsibility and Ownership in Interventional Radiology Rotations Improves the Educational Experience** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Kothary, N., Ghatan, C. E., Hwang, G. L., Kuo, W. T., Louie, J. D., Sze, D. Y., Hovsepian, D. M., Desser, T. S., Hofmann, L. V.  
2010; 21 (11): 1697-1702
- **Development of New Hepaticocentric Collateral Pathways after Hepatic Arterial Skeletonization in Preparation for Yttrium-90 Radioembolization** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Abdelmaksoud, M. H., Hwang, G. L., Louie, J. D., Kothary, N., Hofmann, L. V., Kuo, W. T., Hovsepian, D. M., Sze, D. Y.  
2010; 21 (9): 1385-1395
- **The joint commission practice performance evaluation: a primer for radiologists.** *Journal of the American College of Radiology*  
Steele, J. R., Hovsepian, D. M., Schomer, D. F.  
2010; 7 (6): 425-430
- **The Joint Commission Practice Performance Evaluation: A Primer for Radiologists** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*  
Steele, J. R., Hovsepian, D. M., Schomer, D. F.  
2010; 7 (6): 425-430
- **Guidelines for Establishing a Quality Improvement Program in Interventional Radiology** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Steele, J. R., Wallace, M. J., Hovsepian, D. M., James, B. C., Kundu, S., Miller, D. L., Rose, S. C., Sacks, D., Shah, S. S., Cardella, J. F.  
2010; 21 (5): 617-625
- **Toward Best Practices in Radiology Reporting** *RADIOLOGY*  
Kahn, C. E., Langlotz, C. P., Burnside, E. S., Carrino, J. A., Channin, D. S., Hovsepian, D. M., Rubin, D. L.  
2009; 252 (3): 852-856
- **Quality Improvement Guidelines for the Treatment of Lower Extremity Deep Vein Thrombosis with Use of Endovascular Thrombus Removal (Reprinted from J Vasc Interv Radiol vol 17, pg 435-448, 2006)** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*

- Vedanatham, S., Thorpe, P. E., Cardella, J. F., Grassi, C. J., Patel, N. H., Ferral, H., Hofmann, L. V., d'Othee, B. M., Antonaci, V. P., Bruntzos, E. N., Brown, D. B., Martin, L. G., Matsumoto, et al  
2009; 20 (7): S227-S239
- **Quality improvement guidelines for transhepatic arterial chemoembolization, embolization, and chemotherapeutic infusion for hepatic malignancy.** *Journal of vascular and interventional radiology*  
Brown, D. B., Cardella, J. F., Sacks, D., Goldberg, S. N., Gervais, D. A., Rajan, D. K., Vedanatham, S., Miller, D. L., Bruntzos, E. N., Grassi, C. J., Towbin, R. B., Angle, J. F., Balter, et al  
2009; 20 (7): S219-?
  - **Quality Improvement Guidelines for Recording Patient Radiation Dose in the Medical Record (Reprinted from J Vasc Interv Radiol, vol 15, pg 423-429, 2004)** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Miller, D. L., Balter, S., Wagner, L. K., Cardella, J. F., Clark, T. W., Neithamer, C. D., Schwartzberg, M. S., Swan, T. L., Towbin, R. B., Rholl, K. S., Sacks, D.  
2009; 20 (7): S200-S207
  - **Quality Improvement Guidelines for Uterine Artery Embolization for Symptomatic Leiomyomata (Reprinted from CardioVascular and Interventional Radiol, vol 15, pg 535-541, 2004)** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Hovsepien, D. M., Siskin, G. P., Bonn, J., Cardella, J. F., Clark, T. W., Lampmann, L. E., Miller, D. L., Omary, R. A., Pelage, J., Rajan, D., Schwartzberg, M. S., Towbin, R. B., Walker, et al  
2009; 20 (7): S193-S199
  - **Patient care and uterine artery embolization for leiomyomata.** *Journal of vascular and interventional radiology*  
Andrews, R. T., Spies, J. B., Sacks, D., Worthington-Kirsch, R. L., Niedzwiecki, G. A., Marx, M. V., Hovsepien, D. M., Miller, D. L., Siskin, G. P., Raabe, R. D., Goodwin, S. C., Min, R. J., Bonn, et al  
2009; 20 (7): S307-11
  - **Safety and Efficacy of Percutaneous Fiducial Marker Implantation for Image-guided Radiation Therapy** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Kothary, N., Heit, J. J., Louie, J. D., Kuo, W. T., Loo, B. W., Koong, A., Chang, D. T., Hovsepien, D., Sze, D. Y., Hofmann, L. V.  
2009; 20 (2): 235-239
  - **MR volumetric measurements of the myomatous uterus: Improved reliability of stereology over linear measurements** *ACADEMIC RADIOLOGY*  
Joe, B. N., Suh, J., Hildebolt, C. F., Hovsepien, D. M., Johnston, B., Bae, K. T.  
2007; 14 (4): 455-462
  - **Quality improvement in radiology: white paper report of the 2006 Sun Valley Group meeting.** *Journal of the American College of Radiology*  
Johnson, C. D., Swensen, S. J., Glenn, L. W., Hovsepien, D. M.  
2007; 4 (3): 145-147
  - **Ureteric embolization with stainless-steel coils for managing refractory lower urinary tract fistula: a 12-year experience** *BJU INTERNATIONAL*  
Shindel, A. W., Zhu, H., Hovsepien, D. M., Brandes, S. B.  
2007; 99 (2): 364-368
  - **Development of a research agenda for uterine artery embolization: Proceedings from a multidisciplinary research consensus panel - Commentary** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Spies, J. B., Rundback, J. H., Ascher, S., Bradley, L., Goodwin, S. C., Hovsepien, D. M., Myers, E. R., Pelage, J., Pron, G., Siskin, G. P., Stewart, E. A., Worthington-Kirsch, R., Hume, et al  
2006; 17 (12): 1871-1879
  - **A prospective comparison of the impact of uterine artery embolization, myomectomy, and hysterectomy on ovarian function** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Hovsepien, D. M., Ratts, V. S., Rodriguez, M., Huang, J. S., Aubuchon, M. G., Pilgram, T. K.  
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  - **Comparison of adjunctive use of rofecoxib versus ibuprofen in the management of postoperative pain after uterine artery embolization** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Hovsepien, D. M., Mandava, A., Pilgram, T. K., Holder, A. P., Wong, V., Chan, P., Patel, T.  
2006; 17 (4): 665-670

- **Higher rate of partial devascularization and clinical failure after uterine artery embolization for fibroids with spherical polyvinyl alcohol** *CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY*  
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- **Measurement of blood flow before and after embolization with use of fluorescent microspheres in an animal model** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Patel, T. Y., Hovsepian, D. M., Duncan, J. R.  
2006; 17 (1): 103-111
- **Quality improvement guidelines for uterine artery embolization for symptomatic leiomyomata** *CARDIOVASCULAR AND INTERVENTIONAL RADIOLOGY*  
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- **Quality improvement guidelines for uterine artery embolization for symptomatic leiomyomata** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
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- **Type II endoleak after endovascular abdominal aortic aneurysm repair: A conservative approach with selective intervention is safe and cost-effective** *51st Annual Meeting of the American-Association-for-Vascular-Surgery*  
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- **Pregnancy outcomes after fallopian tube recanalization: Oil-based versus water-soluble contrast agents** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
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- **Lower extremity venous thrombolysis with adjunctive mechanical thrombectomy** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
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2002; 13 (10): 1001-1008
- **Angiographic follow-up after suture-mediated femoral artery closure** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*  
Brown, D. B., Crawford, S. T., Norton, P. L., Hovsepian, D. M.  
2002; 13 (7): 677-680
- **Endovascular repair of abdominal aortic aneurysms in women after FDA approval: Results, complications, and limitations** *29th Annual Symposium of the Society-for-Clinical-Vascular-Surgery*  
Sanchez, L. A., Rubin, B. G., Keller, C. A., Choi, E. T., Geraghty, P. J., Vedantham, S., Hovsepian, D., Picus, D., Sicard, G. A.  
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Sterling, K. M., Vogelzang, R. L., Chrisman, H. B., Worthington-Kirsch, R. L., Machan, L. S., Goodwin, S. C., Andrews, R. T., Hovsepian, D. M., Smith, S. J., Bonn, J.  
2002; 5 (1): 56-66
- **IV. Uterine fibroid embolization: follow-up.** *Techniques in vascular and interventional radiology*  
Lipman, J. C., Smith, S. J., Spies, J. B., Siskin, G. P., Machan, L. S., Bonn, J., Worthington-Kirsch, R. L., Goodwin, S. C., Hovsepian, D. M.  
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2002; 5 (1): 17-34
- **III. Uterine fibroid embolization: pain management.** *Techniques in vascular and interventional radiology*  
Siskin, G. P., Bonn, J., Worthington-Kirsch, R. L., Smith, S. J., Shlansky-Goldberg, R., Machan, L. S., Andrews, R. T., Goodwin, S. C., Hovsepian, D. M.  
2002; 5 (1): 35-43
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Chrisman, H. B., Smith, S. J., Sterling, K. M., Vogelzang, R., Bonn, J., Andrews, R. T., Worthington-Kirsch, R. L., Goodwin, S. C., Lipman, J. C., Siskin, G. P., Hovsepian, D. M.  
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