

CURRICULUM VITAE
Deborah Anne Frassica, M.D.

DEMOGRAPHIC INFORMATION

Current Appointment:

Johns Hopkins University School of Medicine
Associate Professor of Radiation Oncology and Oncology

Personal Data:

The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins
Department of Radiation Oncology and Molecular Radiation Sciences
Johns Hopkins Radiation Oncology at Green Spring Station
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Lutherville, Maryland 21093
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Education and Training:

Undergraduate	B.S.; 1980	Southampton College of Long Island University	Biology/Chemistry
Doctoral	M.D.; 1984	The Edward H. Ebert School of Medicine of the Uniformed Services University of the Health Sciences	Medicine
Post-Doctoral	Internship, 1984-1985	National Naval Medical Center, Bethesda	Transitional
	Residency, 1985-1988	Mayo Graduate School of Medicine	Radiation Oncology

Professional Experience:

Radiation Oncology Staff	Naval Medical Center Portsmouth	7/88-5/91
Head, Division of Radiation Oncology	Naval Medical Center Portsmouth	6/91-7/94
Assistant Professor of Radiation Oncology (part-time)	Eastern Virginia Medical School	9/88-7/94
Radiation Oncology Staff	National Naval Medical Center	7/94-12/97

Head, Radiation Oncology Division	National Naval Medical Center	1/98-6/98
Assistant Professor of Radiology (Radiation Oncology)	Uniformed Services University SOM	9/94-8/98
Radiation Oncology Residency Program Director (NCI-Military Program)	Uniformed Services University School of Graduate Medical Education	2/96-6/98
Lecturer in Radiation Oncology (part-time)	Johns Hopkins Radiation Oncology	7/95-6/98
Assistant Professor of Oncology	Johns Hopkins University SOM	7/98-2/04
Associate Professor of Radiation Oncology	Johns Hopkins University SOM	3/04-present
Radiation Oncology Residency Program Director	Johns Hopkins University SOM	4/01-present

RESEARCH ACTIVITES

Publications:

- **Peer-reviewed scientific articles**

1. Frassica DA, Schomberg PJ, Colgan JP, Banks PM, Earle JD: Management of Early-Stage Subdiaphragmatic Hodgkin's Disease. *Int J Rad Onc Biol Phys* 16:1459-1463, 1989.
2. Frassica DA, Frassica FJ, Schray MF, Sim FH, Kyle RA: Solitary Plasmacytoma of Bone - Mayo Clinic Experience. *International J Rad Onc Biol Phys* 16:43-48, 1989.
3. Frassica FJ, Sim FH, Frassica DA, Wold LE: Survival and Management Considerations in Postirradiation Osteosarcoma and Paget's Osteosarcoma. *Clin Orth* 270:120-127, 1991.
4. Tami TA, Gomez P, Parker GS, Gupta MB, Frassica DA: Thyroid Dysfunction After Radiation Therapy in Head and Neck Cancer Patients. *Am J Otolaryngology* 13(6):357-362, 1992.
5. Frassica DA, Gunderson LL: Principles of Radiation Therapy in the Treatment of Bone Metastases. *Orthopaedics* 15(5):579-580, 1992.
6. Chin H, Frassica F, Markel M, Frassica D, Sim F, Chao E: The effect of therapeutic irradiation on bone graft incorporation over a porous coated segmental defect prosthesis. *Clin Ortho Rel Res* 289:254-266, 1993.
7. Frassica FJ, Frassica DA, Pritchard D, Schomberg PJ, Wold L, Sim FH: Ewing's Sarcoma of the Pelvis. Clinicopathologic Features and Treatment. *JBJS* 75A(10):1467-1465, 1993.
8. Frassica F, Frassica D, Wold L, Beabout J, Sim F: Mayo Clinic Tumor Rounds - Post Radiation Sarcoma of Bone. *Orthopedics* 16(1):105-109, 1993.
9. Sanjay B, Frassica F, Frassica D, Unni K, McLeod R, Sim F: Treatment of Giant Cell Tumor of the Pelvis. *JBJS* 75A(10):1466:1475, 1993.
10. Olsen KD, Caruso M, Foote RL, Stanley RJ, Lewis JE, Buskirk SJ, Frassica DA, DeSanto LW, O'Fallon MO, Hoverman VR: Primary Head and Neck Cancer - Histopathologic Predictors of Recurrence After Neck Dissection in Patients with Lymph Node Involvement. *Arch Otolaryngol Head Neck Surg* 120:1370-1374, 1994.
11. Frassica DA, Thurman S, Welsh J: Radiation Therapy. In: *Orthopaedic Clinics of North America – Management of Bony Metastatic Disease*. Peabody T and Ward W (guest editors) 31(4):557-566, 2000.

12. Frassica F and Frassica D: Metastatic Bone Disease of the Humerus. *Journal of the American Academy of Orthopaedic Surgeons*; 2003 Jul-Aug;11(4):282-8.
13. Li S, Frassica D, DeWeese T, Lee DJ, Geng J, Nag S. Real-time planning for intraoperative high-dose-rate brachytherapy. *Brachytherapy*; 2:5-16, 2003.
14. Ulutin C, Zellars R, Frassica D: Soft tissue sarcoma of the vulva: A clinical study. *Int J Gynecol Cancer*. 2003 Jul-Aug;13(4):528-31.
15. Frassica D: General principles of external beam radiotherapy for skeletal metastases. *Clin Orthop*. 2003 Oct;(415):S158-64.
16. Aflatoon K, Manoso MW, Duene EG, Frassica DA, Frassica FJ: Brachytherapy tubes and free tissue transfer after soft tissue sarcoma resection. *Clin Orthop* 415:248-253, 2003.
17. Frassica FJ, Frassica DA: Evaluation and treatment of metastases to the humerus. *Clin Orthop* 415S:S212-S218, 2003.
18. Jacofsky D, Frassica D, Frassica F: Metastatic Disease to Bone. *Hosp Phys* 40:21-23,39; 2004.
19. Manoso MW, Frassica DA, Lietman SA, Frassica FJ: Proximal femoral replacement for metastatic bone disease. *Orthopedics*, in press, 2005
20. Manoso MW, Frassica DA, Deune EG, Frassica FJ: Outcomes of re-excision after unplanned excisions of soft-tissue sarcomas. *J Surg Oncol*, 91(3):153-158, 2005.

- **Non-peer reviewed articles:**

- **Book Chapters, Monographs:**

1. Chin HC, Frassica FJ, Markel MD, Frassica DA, Chao EY: Effect of Therapeutic Irradiation on Extracortical Fixation and Bone Ingrowth in an Autogenously Bone Grafted Segmental Defect Prosthesis, pp. 364-368, in Limb Salvage - Major Reconstructions in Oncologic and Nontumoral Conditions, Langlais F and Tomeno B (eds), Springer-Verlag, Berlin Heidelberg, 1991.
2. Frassica FJ, Frassica DA, Coventry MB: Ectopic Bone, pp.867-876, in Total Joint Arthroplasty, Morrey BF, editor, Churchill Livingstone, New York, 1991.
3. Frassica FJ, Frassica DA, Sim FH: Myeloma of Bone, pp. 357-377, in Advances in Operative Orthopaedics, Volume 2, Stauffer R, ed., Mosby-Year Book, Inc., Chicago, 1994.
4. Frassica F, Frassica D, Berry D: Ectopic Bone, pp. 1261-1272, in Reconstructive Surgery of the Joints, 2nd edition, Morrey BF, editor, Churchill Livingstone, New York, 1996.
5. Sim F, Frassica D, Gunderson L, Frassica F: Management of Retroperitoneal Malignant Soft-Tissue Tumors, pp. 577-584, in Surgery for Bone and Soft-Tissue Tumors, Simon and Springfield, eds., Lippincott-Raven, Philadelphia, 1998
6. Frassica F, Frassica D, Sim F: Pathogenesis and Pathophysiology, pp. 615-620, in Surgery for Bone and Soft-Tissue Tumors, Simon and Springfield, eds. Lippincott-Raven, Philadelphia, 1998
7. Frassica D, Frassica F: Non-Operative Management, in Musculoskeletal Oncology, pp. 633-637, in Surgery for Bone and Soft-Tissue Tumors, Simon and Springfield, eds., Lippincott-Raven, Philadelphia, 1998
8. Frassica D, Frassica F, Sim F: Supportive Measures for Patients, in Surgery for Bone and Soft-Tissue Tumors, Simon and Springfield, eds., Lippincott-Raven, Philadelphia, pg. 625-632, 1998
9. Frassica FJ, Frassica DA, Lietman SA, Huckell CA, Kostuik JP, Chao EYS, and Sim FH: Surgical palliation of malignant bone pain, in Topics in Palliative Care, Volume 3, Portenoy, RK,

- and Bruera, E, Oxford University Press, pp 139-162, New York, 1998
10. Frassica FJ, Frassica DA, Lietman SA, McCarthy EF, Wenz JF: Metastatic Bone Disease, in Chapman's Orthopaedic Surgery, third edition, Chapman MW, ed. Lippincott Williams and Wilkins, Philadelphia, 2001.
 11. Frassica FJ, Lietman SA and Frassica DA: Lower Extremity Metastases, in Orthopaedics, 1st edition, Fitzgerald RH, Kaufer H, and Malkani AL, eds. Mosby, St. Louis, pg. 1116-1122, 2002
 12. Frassica FJ, Frassica DA, Jacofsky DJ, Sim FH: Palliative Orthopaedic Surgery, in Principles and Practices of Palliative Care and Supportive Oncology, 2nd edition, Berger A, Portenoy R and Weissman D, eds. Lippincott Williams & Wilkins, Philadelphia, pg. 722-730, 2002.
 13. Frassica F, Frassica D, Lietman S and Sim F: Myeloma of Bone, in Oxford Textbook of Orthopedics and Trauma, 1st edition, Bulstrode, Buckwalter, Carr et al, editors. Oxford University Press, Oxford, vol. 1, pg. 269-274.
 14. Frassica D and Jacobs M: Radiotherapy for Multiple Myeloma, in Multiple Myeloma, 2nd edition. Gahrton, Durie and Samson, eds. Arnold, London, pg. 241-249, 2004.

Extramural Sponsorship:

Teaching:

- Clinical Instruction
 - Supervision of Radiation Oncology Residents
 - Supervision of medical students during elective rotation in radiation oncology
- CME Instruction
 - Lecturer and Case Discussant, SKCCC/JHU Radiation Oncology Division Residency Program, 10 hours per year 1998-2001; 20 hours per year 2001-present
 - Lecturer, SKCCC Medical Oncology Fellows' Lecture Series, 5/8, 5/12 and 6/22/2002
 - "Management of the Patient After an Unplanned Excision of a Soft Tissue Sarcoma", November 29, 2001; at the SKCCC Radiation Oncology Grand Rounds
 - "Radiation Therapy in the Treatment of Soft Tissue Sarcomas", February, 2000, at The Johns Hopkins Comprehensive Cancer Center Oncology Grand Rounds
 - "Brachytherapy Following Unplanned Excision of Soft Tissue Sarcomas", November 21, 2003, SKCCC Grand Rounds
 - "Post-Irradiation Sarcoma", January 9, 2004, SKCCC Grand Rounds
 - "Basics of Brachytherapy for Orthopaedic Nurses" Nelson 8 Nursing Inservice lecture, May 18, 2004
 - "Soft Tissue Sarcoma", Plastic Surgery Resident Education lecture, May 27, 2004
 - "Radiotherapy for Soft Tissue Sarcoma", Orthopaedic Oncology Resident lecture, July 9, 2004.
 - "Adjuvant Therapy for Rectal Cancer", General Surgery Grand Rounds, September 16, 2004

CLINICAL ACTIVITIES

Certification:

- Diplomat, National Board of Medical Examiners, July 1985
- State of Minnesota, Minnesota Board of Medical Examiners, 1985-1994
- State of Virginia, Virginia Board of Medical Examiners, 1990-present (# 0101044990)
- State of Maryland, Maryland Board of Physician Quality Assurance, 1997-present (# D0052496)
- American Board of Radiology (Radiation Oncology), May 1988

Service Responsibilities:

- General Radiation Oncology, Green Spring Station satellite facility (80%)
 - Areas of clinical concentration include breast and adult musculoskeletal oncology
- Brachytherapy, Sidney Kimmel Comprehensive Cancer Center (10%)
 - Intravascular brachytherapy (coronary artery)
 - Soft tissue sarcoma interstitial brachytherapy
 - Therasphere therapy for liver cancers (primary and metastatic)

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments:

SKCCC DMSB Committee, January 2005-present

Coordinator, SKCCC Grand Rounds, July 2004 - present

JHU Breast Center Executive Committee, member, September 2004 - present

JHU SKCCC Cancer Committee, member, September 2004 - present

Search Committee for Head of Palliative Care, SKCCC, June 2004 - present

Medical School Admissions Committee, JHUSOM, January 2001 – present

JHUSOM GME Internal Review Subcommittee 'D', 2003-2004

JHUSOM Joint Committee on Graduate Medical Education, September 2002 - present

Johns Hopkins Bayview Medical Center Cancer Committee, July 2001- present

SKCCC Oncology Department Education Committee, July 2001- present

Search Committee for Head, Johns Hopkins Breast Center, Sept. 2000 – Sept. 2001

Clinical Directors Committee, Radiation Oncology Division, Johns Hopkins University, 1999-2001

Board for Appointment in the Armed Forces Health Professions Scholarship Program, 1997-1998

Cancer Committee, National Naval Medical Center, January 1998- June 98

Radiation Safety Committee, National Naval Medical Center, January 1998- June 1998

Interviewer, Uniformed Services University Medical School Applicants, January 1997-June 1998

Co-Chairman, Breast Cancer Practice Guidelines Development Committee, National Naval Medical Center, April 1997 – June 1998

Breast Care Center Advisory Council, National Naval Medical Center, July 1996- June 1998

Breast Disease Center Development Committee, National Naval Medical Center, Oct 1994- June 1995

Radiation Safety Committee, Portsmouth Naval Hospital, June 1991-July 1994

Cancer Committee, Portsmouth Naval Hospital, June 1991-July 1994

Professional Societies:

American College of Surgeons Oncology Group, member; institutional PI for ACOSOG Z0301 and Z9031 trials

NCCN Bone Tumor Panel, member, July 2003 - present

American Board of Radiology, Item Writer for Radiation Oncology Board Examination, Bone and Soft Tissue Tumor section; 2003, 2004

American Society for Therapeutic Radiology and Oncology, member, 1990-present

for Therapeutic American Society Radiology and Oncology abstract reviewer for annual meeting, Sarcoma Section; 2002, 2003, 2004

American Society for Clinical Oncology – Abstract reviewer for Sarcoma Track, 2005 Annual meeting
American College of Radiology, member, 1990-1998.

Radiation Therapy Oncology Group (RTOG), Sarcoma Committee member, July 2001-present

Mid-Atlantic Society of Radiation Oncologists, 1992-present

Board of Directors, Portsmouth/Chesapeake Chapter of the American Cancer Society, 9/92-7/94

Conference Organizer, Session Chair:

Sarcoma/Lymphoma Plenary Session Co-Moderator, Annual Meeting of the American Society for Therapeutic Radiology and Oncology, October 10, 2002

SKCCC Conference on Colorectal Cancer Management Steering Committee, September 2002-present

RECOGNITION

Awards, honors:

Alpha Omega Alpha Medical Honor Society, 1983

Janet M. Glasgow Memorial Achievement Citation; American Medical Women's Association (USUHS chapter), 1984

Navy Commendation Medal for Meritorious Service from 7/88 to 7/94

Teacher of the Year, USUHS Radiation Oncology Residency Program, 1998

Director's Teaching Award in Clinical Science, Johns Hopkins Oncology Center, 2000

Director's Teaching Award in Clinical Science, The SKCCC at Johns Hopkins, 2002

Director's Teaching Award in Clinical Science, The SKCCC at Johns Hopkins, 2005

Association of Residents in Radiation Oncology Teacher of the Year Award for the Johns Hopkins Radiation Oncology Program, 2002

Association of Residents in Radiation Oncology Teacher of the Year Award for the Johns Hopkins Radiation Oncology Program, 2005

Invited Talks, Panels:

“Conventional Radiotherapy for Spine Metastases and Stereotactic/GammaKnife therapy for base of skull metastases”, October 29, 2005, AO ASIF Spine Tumor Symposium, Baltimore, MD

“Prostate Cancer – Current Update on Radiation Treatment for Metastatic Disease”, October 29, 2005, AO ASIF Spine Tumor Symposium, Baltimore, MD

“Renal Cell Cancer – Current Update on Radiation Treatment for Metastatic Disease”, October 29, 2005, AO ASIF Spine Tumor Symposium, Baltimore, MD

“Radiation and Sarcomas – Recent Advances”, discussion of abstracts 9007 and 9008; 41st ASCO Annual Meeting, Orlando, FL, May 14, 2005.

“Evolving Indications for Radiation and Bisphosphonate Use in Patients with Bone Metastases”, Feb 24, 2005; in Symposium “Latest Trends in the Management of Metastatic Bone Disease”, American Academy of Orthopaedic Surgery Annual Meeting, Washington, D.C.

“Evolving Indications for Radiation and Bisphosphonate Use in Patients with Bone Metastases”, Feb 24, 2005; in Instructional Course Lecture “Surgical and Non-Surgical Treatment of Metastatic Bone Disease”, American Academy of Orthopaedic Surgery Annual Meeting, Washington, D.C.

“Yttrium-90 microspheres in the management of metastatic colorectal cancer”, Feb 8, 2004; Colorectal Cancer Tumor Conference, JHU

“Treatment and Side-Effects of Colorectal Cancer Treatment”, panel discussion member, Patient Education Meeting, JHU, August, 2004

“Axillary Irradiation in Lieu of Axillary Surgery” April 3, 2004, Baltimore, MD; Current Concepts in the Multidisciplinary Management of Breast Cancer

“Late Effects of Radiotherapy for Internists” May 9, 2003, Baltimore, MD; Philip Tumulty Topics in Clinical Medicine course, Johns Hopkins University

“Should Preoperative Chemoradiotherapy for Rectal Cancer Be Standard?”, April 4, 2003, Baltimore, MD; Current Concepts in the Multidisciplinary Management of Colorectal Cancer, Johns Hopkins University.

“General Principles of External Beam Radiation Therapy for Bone Metastases” November 9, 2002, Tampa, FL; American Board of Joint Surgeons Workshop on Metastatic Bone Disease

“Radiotherapeutic Management Case Discussion”, Panel Moderator. April 5, 2002, Baltimore, MD; Current Concepts in the Multidisciplinary Management of Early-Stage Breast Cancer meeting, SKCCC/JHU

“The Role of Radiotherapy for Liposarcomas”, presented as part of the symposium “Current Controversies in Orthopaedic Oncology – Crossfire Debate: Atypical Lipomatous Tumor / Well-Differentiated Liposarcoma / Liposarcoma”, February 16, 2002, Dallas, Texas at the Musculoskeletal

Tumor Society Specialty Day Meeting at the American Academy of Orthopaedic Surgeons 69th Annual Meeting

“Non-Operative Management of Metastatic Bone Disease”, presented as part of the Symposium “Diagnosis and Management of the Patient with Metastatic Bone Disease”, February 14, 2002; Dallas, Texas at the American Academy of Orthopaedic Surgeons 69th Annual Meeting

“Radiotherapy for Soft Tissue Sarcomas”, June 23, 2001, Skafidia, Greece at the 14th Annual Meeting of Orthopaedic Oncology, Oncology Section of the Hellenic Association of Orthopaedic Surgery and Traumatology,

“Radiotherapy for Ewing’s Sarcoma”, June 23, 2001; Skafidia, Greece at the 14th Annual Meeting of Orthopaedic Oncology, Oncology Section of the Hellenic Association of Orthopaedic Surgery and Traumatology

“Radiation Therapy in the Management of Desmoid Tumors”, presented as part of the Symposium “Desmoid Tumors” May 11, 2001, Baltimore, Maryland at the Annual Meeting of the Musculoskeletal Tumor Society

“Multi-modality Treatment of Soft Tissue Sarcomas”, presented as part of the Symposium “Evaluation, Imaging, Decision-Making and Biopsy of Common Soft Tissue Tumors” February 28, 2001; San Francisco, California at the American Academy of Orthopaedic Surgeons 68th Annual Meeting

“General Principles of Radiation Oncology”, November, 2000 at the Annual Meeting of the Maryland Association of Physician Assistants

“Toxicity of high dose rate interstitial post-operative adjuvant brachytherapy for sarcomas.” Peter Leider, MD, Deborah Frassica, MD, Lawrence Kleinberg, MD, Frank Frassica, MD. Poster Presentation at the Annual American Brachytherapy Society Meeting, May 23-25, 1999; San Diego, California.

“Radiotherapy for Aggressive Fibromatosis”, February 7, 1999; Anaheim, California at the Musculoskeletal Tumor Society Specialty Day Meeting, American Academy of Orthopaedic Surgeons 66th Annual Meeting

“Radiotherapy for Pigmented Villonodular Synovitis”, February 7, 1999; Anaheim, California at the Musculoskeletal Tumor Society Specialty Day Meeting, American Academy of Orthopaedic Surgeons 66th Annual Meeting

“New Treatment Strategies in Radiation Therapy for Breast Cancer”, October 29, 1998, Lutherville, Maryland at the Johns Hopkins University Breast Center Educational Series (for lay population / patient education)

“The Basics of Breast Cancer – 1998”, October 3, 1998, Baltimore, Maryland at the Inter-Urban Orthopaedic Society Spouses’ Program,

“The Role of Radiotherapy in the Treatment of Soft Tissue Sarcomas”, September 11, 1998, Izmir, Turkey at the Second Balkan Oncology Congress

A Treatment and Outcome of Pelvic Ewing's, Panel Member. May 8-10, 1995; Florence, Italy at the Combined Meeting of the European and American Musculoskeletal Tumor Societies

"The Role of Radiation Therapy in the Treatment of Soft Tissue Sarcomas", April 25, 1992, Terre Haute, Indiana at the Union Hospital Oncology Update Course

"Palliative Treatment of the Cancer Patient - the Role of Radiation Therapy", April 25, 1992, Terre Haute, Indiana at the Union Hospital Oncology Update Course

"Solitary Plasmacytoma of Bone - A Report of 50 Cases", presented in part at the 29th Annual Scientific Meeting of the American Society for Therapeutic Radiology and Oncology, Boston, October 19-23, 1987

"Management of Patients with Early-Stage Subdiaphragmatic Hodgkin's Disease", presented at the 28th Annual Scientific Meeting of the American Society for Therapeutic Radiology and Oncology, Los Angeles, November 2-7, 1986

Invited Reviews, Editorials:

1. Sim FH, Frassica FJ and Frassica DA: Metastatic Bone Disease: Current Concepts of Clinicopathophysiology and Modern Surgical Treatment. *Annals of the Academy of Medicine of Singapore* 21(2):274-279, 1992.
2. Frassica FJ, Frassica DA, Sim FH: Soft Tissue Tumors: Diagnosis, Evaluation and Management. *Journal of the American Academy of Orthopaedic Surgeons: A Comprehensive Review* 2:202-211, 1994.
3. Frassica F, Chang B, Ma L, Howard S, Lietman S, Frassica D, Sim F: Soft tissue sarcomas: General features, evaluation, imaging, biopsy and treatment. *Curr Ortho* 11:105-113, 1997.
4. Frassica DA: Book Review – Radiation Oncology: Management Decisions. *J Natl Cancer Inst* 91:1968, 1999.
5. Abrams RA and Frassica DA: Review of Hu K and Yahalom J: Radiotherapy in the Management of Plasma Cell Tumors. *Oncology* 14(1):111-112, 2000.
6. Riley LH, Frassica DA, Kostuik JP, Frassica FJ: Metastatic Disease to the Spine: Diagnosis and Treatment. *AAOS Instructional Course Lectures* 49:471-477, 2000.
7. Frassica FJ, Frassica DA, McCarthy EF, Riley LH: Metastatic Bone Disease: Evaluation, Clinicopathologic Features, Biopsy, Fracture Risk, Nonsurgical Treatment, and Supportive Management. *AAOS Instructional Course Lectures* 49:453-459, 2000.
8. Zellars R, Frassica D: Radiation therapy in the management of breast cancer: an annual review of selected publications. *Curr Opin Oncol* 13(6):431-435, 2001.
9. Frassica FJ, Frassica DA: Metastatic Bone Disease: General Considerations: in *Orthopaedic Knowledge Update – Musculoskeletal Tumors*, Menedez LR, ed. American Academy of Orthopaedic Surgeons, Rosemont IL, 2002.
10. Frassica DA, Zellars RC: Radiation Oncology: The Year in Review. *Curr Opin Oncol*

14(6):594-599, 2002.

11. Frassica D, Bajaj G, Tsangaris T: Management of complications after breast conservation, including fat necrosis, infection, musculoskeletal pain and cancer recurrence. *Oncology (Huntingt)*. 2003 Aug;17(8):1118-28