

CURRICULUM VITAE

Geraldine Jacobson, M.D., M.P.H., M.B.A.

April 2011

I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. List of institutions attended, board certification, licensure

9/1968-6/1972	B.S.	Michigan State University, East Lansing MI
8/1975-6/1976	pre-med	University of South Florida, Tampa FL
7/1976-6/1977	pre-med	University of Miami Miami FL
9/1977-6/1981	M.D.	University of Utah, Salt Lake City UT
7/1981-6/1982	Internship	University of Utah Salt Lake City UT
7/1982-6/1985	Residency	Radiation Oncology, LDS Hospital, Salt Lake City UT
6/1984	Diploma	External Beam Dosimetry; Principles & Calibrations, M.D. Anderson Hospital & Tumor Institute Houston TX
8/1998-5/2000	M.P.H.	University of South Florida Tampa FL
6/2006-3/2008	M.B.A.	Executive MBA Program University of Chicago Chicago IL

Board certification

May 1982	National Board of Medical Examiners
June 1985	American Board of Radiology [Therapeutic]

Licensure

- California
- Florida
- Texas
- Iowa

B. Professional and Academic Positions

7/1985-1/1987	Instructor, Division of Radiation Oncology, Department of Radiology University of Utah Medical Center Salt Lake City UT
1/1987-6/1987	Assistant Professor, Division of Radiation Oncology, Department of Radiology, University of Utah Medical Center Salt Lake City UT
7/1987-6/1989	Medical Director, Radiation Therapy Oncology Center Brooksville FL
7/1989-6/1990	Assistant Professor, University of Texas Medical Branch Galveston TX
7/1989-6/1990	Assistant Director of Clinical Research, University of Texas Medical Branch Galveston TX
7/1990-6/1992	Radiation Oncologist, Radiation Therapy Oncology Center Clearwater FL
7/1992-6/2000	Medical Director, Bayfront Cancer Care Center St. Petersburg FL
10/2000-3/2002	Radiation Oncologist, Cancer Institute of Maui Maui HI
4/2002-7/2008	Clinical Associate Professor, Department of Radiation Oncology, University of Iowa Hospitals & Clinics Iowa City IA
4/2002-6/2005	Director, Residency Program, Department of Radiation Oncology, University of Iowa Hospitals & Clinics Iowa City IA
7/2005-present	Associate Chair and Clinic Director, Department of Radiation Oncology, University of Iowa Hospitals & Clinics Iowa City IA
7//2008-present	Clinical Professor, Department of Radiation Oncology, University of Iowa Hospitals & Clinics Iowa City IA
7/2010-present	Medical Director, Department of Radiation Oncology, University of Iowa Hospitals & Clinics Iowa City IA

C. Honors and Awards

1968	National Merit Scholarship
1984-1985	American Cancer Society Clinical Fellowship

July 2003	Selected for Mid-Career Women Faculty Professional Development Seminar, July 2003, Washington, DC
Fall 2003	Institutional Leadership Development Program, Carver College of Medicine and University of Iowa Hospitals and Clinics
2006-2010	Best Doctors in America
2011-2012	Best Doctors in America
2008-2009	CIC Academic Leadership Program Fellow
May 2010	Fellow American College of Radiology (FACR)
2010-2011	Carver College of Medicine Leadership Course
2010	Guide to America's Top Oncologists

II. TEACHING

A. Teaching assignments on semester by semester basis (least to most recent)

4/2002-present	Lecturer, Department of Radiation Oncology University of Iowa, Iowa City IA
March 2005	Instructor, Faculty Seminar on Clinical Teaching, Department of Radiation Oncology, University of Iowa, Iowa City IA
Fall 2005	Facilitator, Ethics component of the Healthcare Ethics, Law, and Policy Course College of Medicine, University of Iowa, Iowa City IA
Fall 2007	Instructor, Radiation Biology Course, Department of Radiation Oncology, University of Iowa, Iowa City IA
Winter 2007	Facilitator, Ethics component of the Healthcare Ethics, Law, and Policy Course College of Medicine, University of Iowa, Iowa City IA
Spring 2008	Facilitator, Ethics component of the Healthcare Ethics, Law, and Policy Course College of Medicine, University of Iowa, Iowa City IA
Fall 2008	Instructor, Radiation Biology Course, Department of Radiation Oncology, University of Iowa, Iowa City IA
Winter 2008	Instructor, Complementary Alternative Medicine Elective for senior medical students, University of Iowa, Iowa City IA

Fall 2009	Freshman Seminar (3), Being a doctor: image and reality, University of Iowa undergraduate students
Fall 2009	Instructor, Radiation Biology Course, Department of Radiation Oncology, University of Iowa, Iowa City IA
Fall 2010	Freshman seminar, Being a doctor: image and reality
Fall 2010	Instructor, Radiation Biology course, Department of Radiation Oncology, University of Iowa, Iowa City IA

B. Students supervised

Radiation Oncology Residents 2002-present

Sudershan Bhatia; 7/99 – 6/03; passed written-2002; passed oral 2004

Heather Kaiser; 12/00 – 12/04; passed written 2005; passed oral 2006

Thanh Nguyen; 7/01 – 6/05; passed written 2006; passed oral 2007

Brian Chang; 7/03 – 6/05/ transferred to University of Texas

Terese Howes; 1/02 – 7/06; passed written 2006; passed oral 2007

Reena Pramanik; 7/02 – 7/06;

Joel Simmons; 7/03 – 6/07; passed written 2007

David Mattson; 7/04 – 2008; passed written 2008

Casey Duncan; 7/05 – present; passed written 2008

Anna Olson; 7/06 - present

Joni Buechler-Price; 7/07 – present

Wenqing Sun; 7/07 – present

Charles Murphy 7/08 – present

William Rockey 7/08 – present

Bryan Allen 7/09 – present

Arshin Sheybani 7/10 – present

Ann Morris 7/10 - present

Gynecology-Oncology Fellows (Radiation Oncology Rotation) 2002-present

David Bender, July 2002

Michael Goodheart, July 2003

Stephen Rose, July 2004

Paul Nowicki, July 2006

Amina Ahmed, May 2007

Hubert Fornalik, June 2009

Graduate student supervision and committees

Tanja Hadzic PhD candidate translational research project 5/2006 to 2008

PhD Committees

Tanja Hadzic 1/2007-2008

2-Deoxy-D-Glucose sensitizes human breast cancer cells to the toxicity of Taxol
via increases in metabolic oxidative stress

Outcome: Graduated 2008

C. Other contributions to institutional programs

Formal study: New Faculty Clinical Training Workshop	October 2002
Ntitle program University of Iowa	May 2003
Formal study: Teaching Skills Seminar Series	September 2002-June 2003
Formal study: Teaching Scholars Program COM	2002-2005
Gynecology/Oncology conference; 1.5 hours/week	2002-present
Journal Club; 1 hour/month	2002-present
Treatment planning conference; 1 hour/week	2002-present
Morbidity and mortality; 1 hour/month	2002-present
Gentle Yoga for Breast Cancer Survivors – developed class and obtained funding for ongoing, bi-weekly yoga class on hospital premises	February 2007-present
Breast Multidisciplinary Conference; 1 hour/week	2005-present
Executive committee panel discussion; CCOM new faculty orientation	August 3, 2010

III. SCHOLARSHIP**A. Publications or creative works (least to most recent)****Peer reviewed**

1. **Jacobson GM**, Sause WT, and O'Brien RT. Dose response analysis of pediatric neuroblastoma to megavoltage radiation. *American journal of clinical oncology: the official publication of the American Radium Society* 1984;7:693-697. PMID: 6442101
2. **Jacobson GM**, Sause WT, Thomson JW, and Plenk HP. Breast irradiation following silicone gel implants. *International Journal of Radiation Oncology, Biology, Physics* 1986;12:835-838. PMID: 3086262

3. **Jacobson GM**, Smith JA, Jr., and Stewart JR. Postoperative radiation therapy for pathologic stage C prostate cancer. *International Journal of Radiation Oncology, Biology, Physics* 1987;13:1021-1024. PMID: 3597144
4. McNeely LK, **Jacobson GM**, Leavitt DD, and Stewart JR. Electron arc therapy: chest wall irradiation of breast cancer patients. *International Journal of Radiation Oncology, Biology, Physics* 1988;14:1287-1294. PMID: 3384727
5. Morrill SM, Lane RG, **Jacobson GM**, and Rosen, II. Treatment planning optimization using constrained simulated annealing. *Physics in Medicine and Biology* 1991;36:1341-1361. PMID: 1745662
6. **Jacobson GM**, Kamath RS, Smith BJ, and Goodheart MJ. Thromboembolic events in patients treated with definitive chemotherapy and radiation therapy for invasive cervical cancer. *Gynecologic Oncology* 2004;96:470-474. PMID: 15661237
7. **Jacobson GM**, Betts V, and Smith B. Change in volume of lumpectomy cavity during external-beam irradiation of the intact breast. *International Journal of Radiation Oncology, Biology, Physics*, 2006; 64:1161-1164. PMID: 16682143
8. Goodheart M, **Jacobson GM**, Smith B, and Zhou L. Chemoradiation for invasive cervical cancer in elderly patients: outcomes and morbidity. *International Journal of Gynecologic Cancer*. 2007; 18:95-103. PMID: 17466049
10. **Jacobson, GM**, Lammler, J, Zamba, G, Hua, L, Goodheart, M. Thromboembolic events in patients with cervical carcinoma: Incidence and Effect on Survival. *Gynecology Oncology*. 2009; 113: 240-244. PMID: 19251310
12. Grunwald, H, Storm, C, and **Jacobson, GM**. When is standard treatment sufficiently active to make use of a placebo controlled trial unethical? *Journal of Oncology Practice*. 2009; 5(2): 74-75. PMID: 20856725
13. **Jacobson, GM**, Cain, J. Ethical issues related to patient use of complementary and alternative medicine. *Journal of Oncology Practice*. 2009; 5(3) 124-126. PMID: 20856751
14. Hadzic, T, Aykin-Burns, N, Coleman, M, **Jacobson, GM**, and Spitz, D. Taxol combined with inhibitors of glucose and hydroperoxide metabolism enhances breast cancer cell kinning *Via H₂O₂-mediated oxidative stress*. *Free Radical Biology and Medicine*. Accepted January 2010. PMID: 20083194
15. Lutgendorf SK, Mullen-Houser EA, Russell D, DeGeest K, **Jacobson GM**, Hart L, Bender D, Buekers T, Goodheart M, Antoni M, Sood AK, Lubaroff DM. Preservation of immune function in cervical cancer patients during chemoradiation using a novel integrative approach. *Brain, Behavior, and Immunity*. 2010. PMID: 20600809
16. Andrews SD, Wilcoxon R, Benda J, **Jacobson GM**. Angiosarcoma following MammoSite® partial breast irradiation. *Breast Cancer Research and Treatment*. May 2010. PMID: 20496164
17. **Jacobson GM**, Zamba G, Betts V, Muruganandham M, Buechler-Price, J. Image-based treatment planning of the post-lumpectomy breast utilizing CT and 3T MRI Submitted.
18. Fornalik H, Goodheart M, Buekers T, DeGeest K, **Jacobson GM**. Aspirin and warfarin are associated with improved overall survival in medically inoperable endometrial cancer patients treated with radiation therapy. Submitted to *Gynecologic Oncology*. June 2010.

19. **Jacobson GM**, Zamba G, Betts V, Muruganandham M, Buechler-Price J. Image-based treatment planning of the post-lumpectomy breast utilizing CT and 3TMRI. *International Journal of Breast Cancer*. Accepted for publication.
20. Anderson C, **Jacobson GM**, Bhatia S, Buatti JM. Book Review: Atlas of Diagnostic Oncology (4th edition) Edited: Arthur T. Skarin. Accepted April 2011. *International Journal of Radiation Oncology, Biology, Physics*.

Book chapters

1. **Jacobson GM**. Evolving concepts in the management of carcinoma of the vulva. In: Tobias JS, Thomas PRM, editors. *Current Radiation Oncology*. Vol 3. 1 ed. London: Arnold Publishers; 1996.

Abstracts

1. Nixon E, Eng B, Modrick JE, **Jacobson GM**. Retrospective evaluation of single treatment plan per course vs plan per fraction for high dose rate vaginal cylinders. *Brachytherapy* 2006; 5(2): 102.
2. Nixon E, Modrick JM, and **Jacobson GM**. "Comparison of ICRU reference point rectal and bladder doses and 3D volumetric parameters for high dose rate (HDR) tandem and ovoid brachytherapy based on 2D versus 3D planning." Accepted for Poster Presentation at *American Brachytherapy Society Annual Meeting* Chicago, IL. April 29-May 1, 2007.
3. **Jacobson GM**, Goodheart, M, Smith, BJ, Zhou, L. Decreased survival in cervical cancer patients with thromboembolic events. 2007 ASCO Annual Meeting Proceedings.
4. **Jacobson GM**. High dose rate intracavitary brachytherapy combined with external radiotherapy for medically inoperable endometrial cancer. 2008 World Congress of Brachytherapy. Boston, MA.
5. **Jacobson GM**. High dose rate intracavitary brachytherapy combined with external radiotherapy for medically inoperable endometrial cancer. *Brachytherapy, the official journal of the ABS*, April/May 2008 Supplement.
6. Kim Y, Muruganandham M, Bayouth JE, Modrick JM, Bhatia SK, **Jacobson GM**. Evaluation of 3 Tesla MR image distortion and artifacts in a titanium applicator presence: Toward 3T MRI guided HDR brachytherapy for cervical cancer. *Med Phys* 2008; 35:2970.
7. Kim Y, Modrick JM, Bayouth JE, Pennington EC, Bhatia SK, **Jacobson GM**. Is a volume-based HDR brachytherapy optimization algorithm comparable to a classic line-based one?: Toward tumor-volume adaptive brachytherapy for cervical cancer by 3T MRI guidance. *Med Phys* 2008;35(6):2727.
8. Kim Y, Huang Y, Bayouth JE, Flynn RT, Bhatia SK, **Jacobson GM**, Modrick JM. Dosimetric consequences of the prescription point H of ABS recommendation in the era of MRI guided brachytherapy for cervical cancer: Based on GYN GEC-ESTRO Recommendation of MRI Guided Brachytherapy. *Int J Radiat Oncol Biol Phys* 2008;72(1):S586-587.

9. Sun W, Kim Y, Bhatia SK, Bayouth JE, Betts V, Pelland D, **Jacobson GM**. Simultaneous boosting for pelvic lymph nodes and organ sparing by selective avoidance IMRT for cervical cancer. *Int J Radiat Oncol Biol Phys* 2008;72(1):S587.
10. Modrick JM, **Jacobson GM**, Bayouth JE. Evaluation of change in the lumpectomy cavity during radiation therapy by weekly ultrasound and by daily ultrasound localization during the radiation boost dose. ASTRO Annual Meeting, Boston, MA, Sept 21-25, 2008.
11. Nixon E, Kim Y, Kearney W, Modrick J, **Jacobson GM**, Bhatia S, Bayouth JE. HDR Brachytherapy Tandem and Ovoid Titanium Applicator Safety Assessment in 3T MRI. *The first World Congress of Brachytherapy (ABS and GEC-ESTRO) 2008 Conference*. Brachytherapy, 2008;7(2):135.
12. Kim K, Nixon E, Modrick JM, Bhatia SK, **Jacobson GM**. On the radiobiologic implications for intracavitary HDR brachytherapy of cervical carcinoma: Based on 3D CT imaging and GYN GEC-ESTRO Recommendations. *The first World Congress of Brachytherapy (ABS and GEC-ESTRO) 2008 Conference*. Brachytherapy, 2008;7(2):168.
13. Olson AK, Bhatia SK, **Jacobson GM**, Modrick JM, Kim Y, Siochi RAC. High dose rate brachytherapy for carcinoma of the uterine cervix: A comparison of fractionation schemes and development of acute toxicity. *The first World Congress of Brachytherapy (ABS and GEC-ESTRO) 2008 Conference*. Brachytherapy, 2008;7(2):154.
14. **Jacobson, GM**, Smith, B. A randomized trial of pentoxifylline and vitamin E versus standard follow-up after breast irradiation to prevent breast fibrosis, evaluated by tissue compliance meter (TCM). *Journal of Clinical Oncology*. 2008; 26:30s.
15. Kim Y, Modrick JM, Bayouth JE, Bhatia KS, **Jacobson GM**. Logistics of Tandem and Ovoids HDR Plan Optimization in MRI-Guided Brachytherapy for Cervical Cancer: Comparisons of Standard, Graphical, and Inverse Optimization. ABS 2009 (Submitted: Nov 17 2008).
16. Kim Y, Muruganandham M, Bayouth JE, Waldron TJ, Modrick JM, Bhatia SK, **Jacobson GM**. Feasibility of Source Markers for a Titanium Tandem and Ovoids Applicator in MRI Guided Brachytherapy: Implications on Source Reconstruction on 3 Tesla MR Images. ABS 2009 (Submitted: Nov 17 2008).
17. Sun W, Bhatia SK, Zimmerman MB, **Jacobson GM**. F-18 fluorodeoxyglucose uptake in primary cervical cancer and regional lymph nodes predicts prognosis after radiation therapy. Presented at 2009 ARS Annual Meeting.
18. Duncan CE, Olson AK, Grienke J, Power R, Hamer M, and **Jacobson GM**. Accurate coding: Education paves the way to success. Presented at ARS 2009.
19. Duncan CE, Olson AK, **Jacobson GM**. Inoperable endometrial carcinoma treated with definitive radiotherapy: Survival, local control and treatment side effects. Presented at ABS 2009.
20. Buechler-Price JL, Betts V, Muruganandham M, Zamba G, **Jacobson GM**. Image-based treatment planning of the post-lumpectomy breast utilizing CT and 3T MRI. *Int J Radiat Oncol Biol Phys* 2009;75(3):S209.

21. Sun W, Bhatia SK, Zimmerman MB, **Jacobson GM**. F-18 fluorodeoxyglucose uptake in primary cervical cancer and regional lymph nodes predicts prognosis after radiation therapy. Presented at 2010 ESTRO Annual Meeting.
22. Sun W, Bhatia SK, Zimmerman MB, **Jacobson GM**. F-18 fluorodeoxyglucose uptake in primary cervical cancer and regional lymph nodes predicts prognosis after radiation therapy. Presented at MIRO 2010.
23. McGuire S, **Jacobson GM**, Menda y, Ponto L, Gross B, Malik J, Bayouth J. Using [18F]FLT-PET imaging in IMRT planning to avoid pelvic bone marrow for cervical cancer patients. *Radiotherapy and Oncology*. 94(1): S-20, 2010.
24. **Jacobson GM**, Modrick J, Buechler-Price J, Betts V, Muruganandham M, Bayouth J. Comparison of 3D ultrasound, CT, and MRI for target definition in the post lumpectomy breast. Presented at ASTRO 2010.
25. **Jacobson GM**. Changing patterns of radiotherapy for post operative endometrial cancer 2000-2008. Presented at 13th Biennial Meeting of the International Gynecological Cancer Society Prague; October 23-26, 2010.
26. Olson AK, Bhatia S, Duncan C, Betts V, Smith B, **Jacobson GM**. Definitive radiation therapy for the treatment of inoperable endometrial cancer: pelvic radiation followed by HDR brachytherapy or IMRT/conformal boost. Presented at ASTRO 2010.
27. Kim Y, Sun W, Bhatia SK, **Jacobson GM**. The changes of target volumes between external beam radiotherapy and brachytherapy and between each fraction of MRI-guided brachytherapy for GYN cancer. Presented at ASTRO 2010.
28. Sun W, Betts V, **Jacobson GM**. Hypofractionated whole breast radiotherapy in an academic medical center: acute and late morbidity and utilization trends. Presented at 2010 Breast Cancer Symposium.
29. McGuire S, **Jacobson GM**, Menda Y, Ponto L, Gross B, Bayouth J. FLT PET imaging for weekly evaluation of bone marrow compensatory response to chemoradiation therapy in cervical cancer patients. *Cancer Imaging and Radiation Therapy Symposium*. Atlanta, Georgia. April 29 – 30, 2011.

Electronic media

1. **Jacobson GM**, Stone J, OCRME, Teaching VCD, Brachytherapy: placement of low dose rate tandem and ovoids. 2005

B. Areas of Research Interest and Current Projects

1. Image guided radiation for breast and gynecologic malignancies
2. Strategies to reduce acute and chronic effects of radiation
3. Image-based gynecologic high dose rate brachytherapy using 3-T MRI
4. Evaluation of MRI based imaging for identification of lumpectomy site
5. Comparison of CT, ultrasound, and MRI for intact breast planning

Clinical Trials

Investigator Initiated Clinical Trials (principal investigator)

- Development of Radiation Fibrosis in Patients Treated with Pentoxifylline and Vitamin E: A Prospective Randomized Study (IRB 200211003; Jacobson, PI)
- Papillary serous carcinoma of the uterus, pathologic Stage I and II, treatment results (IRB 200410782; Jacobson, PI)
- CT-based planning of high dose rate tandem and ovoid applications. (IRB 200507777; Jacobson, PI)
- Retrospective evaluation of treatment plans for high dose rate vaginal cylinders (IRB 200512723; Jacobson, PI)
- Evaluation of change in the lumpectomy cavity during radiation therapy by weekly ultrasound and by daily ultrasound during the radiation boost (IRB 200602784; Jacobson, PI)
- Effect of a yoga intervention on fatigue, distress, and quality of life in breast cancer patients; a randomized pilot study (IRB200707733; Jacobson, PI)
- A multimodality comparison of imaging for lumpectomy cavity localization (IRB200901744; Jacobson, PI)
- F-18 Fluorothymidine ([¹⁸F]FLT) PET Imaging for Early Evaluation of Response to Chemoradiation Therapy in Patients with Cervical Cancer (IRB200906786; McGuire, Menda, Jacobson, co-PIs)
- Cross Sectional Study of Previously Treated Cervical Cancer Patients Utilizing EORTC Quality of Life Instruments (IRB200909767; Jacobson, PI)

Investigator Initiated Clinical Trials (co investigator)

- Quality of Life and Immunity during Breast Cancer Treatment (IRB 200305053; Lutgendorf, PI)
- Quality of Life Interventions During Cervical Cancer Treatment (IRB 200105058; Lutgendorf, PI)

Sponsored National Clinical Trials (local principal investigator)

- Mammosite patient registry: a multi-center, non-randomized, prospective registry (IRB 200302007; Jacobson, PI)
- RTOG 0212: A phase II/III randomized trial of two doses (phase III-standard vs. high) and two high dose schedules (phase II-once vs. twice daily) for delivering prophylactic cranial irradiation for patients with limited disease small cell lung cancer (IRB 200505727)
- RTOG 0214: A phase III comparison of prophylactic cranial irradiation versus observation in patients with locally advanced non-small cell lung cancer (IRB 200411779)
- RTOG 0413/NSABP B-39: A randomized phase III study of conventional whole breast irradiation (WBI) versus partial breast irradiation (PBI) for women with stage 0, I, or II breast cancer (CIRB; Jacobson RTOG PI)

- RTOG 0522: A randomized phase III trial of concurrent accelerated radiation and cisplatin versus concurrent accelerated radiation, cisplatin, and cetuximab (C225) [followed by surgery for selected patients] for stage III and IV head and neck carcinomas (IRB 200603716)
- RTOG 0525: A phase III trial comparing conventional adjuvant temozolomide with dose-intensive temozolomide in patients with newly diagnosed glioblastoma (IRB 200603716)
- ECOG E3F05: A phase III study of radiation therapy with or without temozolomide for symptomatic or progressive (IRB 200911711)
- RTOG 0825/ACRIN 6686: Phase III double-blind placebo-controlled trial of conventional concurrent chemoradiation and adjuvant temozolomide plus bevacizumab versus conventional concurrent chemoradiation and adjuvant temozolomide in patients with newly diagnosed glioblastoma (Jacobson RTOG PI)

Industry Sponsored Clinical Trials (institutional principal investigator)

- A phase I/II study to evaluate the safety, tolerance, and efficacy of RSR13 (efaproxiral) administered to patients receiving a course of Cisplatin and radiation therapy for locally advanced carcinoma of the cervix. Sponsored by Allos Therapeutics, Inc. \$21,431.00.(RT-012; Jacobson, PI)

C. Published reviews of Scholarship

1. Jacobson GM, Venous thromboembolism in cancer patients and its relationship to coagulation cascade and vascular endothelial growth factor. *Supportive Cancer Therapy*. 2005; 3:1. Invited review. PMID: 18632434

D. Grants Received

Healing Touch, Immunity and Fatigue in Breast Cancer

Source:	National Cancer Institute		
Direct Funds:	\$150,000	Period of Funding:	7/03-7/06
PI:	Susan Lutgendorf	% Effort:	5%

Effect of a Yoga Intervention on Fatigue, Distress, and Quality of Life in Breast Cancer Patients: A Randomized Pilot Study

Source:	Diana Benz Memorial Fund Seed Grant		
Direct Funds:	\$17,919	Period of Funding:	5/07-4/08
PI:	Geraldine Jacobson	% Effort:	5%

E. Invited Lectures, Conference Presentations, Visiting Professorships

1. **Jacobson GM**, Sause WT, O'Brien RT. Dose response analysis of pediatric neuroblastoma to megavoltage radiation. Paper presented at American Radium Society, March 1984; San Diego

2. **Jacobson GM**, McNeely LK, Leavitt DD, Stewart JR. Electronic arc therapy: chest wall irradiation of breast cancer patients. Paper presented at American Society of Therapeutic Radiology and Oncology, 1986; Los Angeles
3. **Jacobson GM**, Breast Conservation Therapy, Grand Rounds, University of Utah, Salt Lake City, October 1986
4. **Jacobson GM**. New techniques in breast radiation. Presented at The University of Iowa Breast Cancer Symposium, February, 2004; Iowa City
5. **Jacobson GM**, Brachytherapy: Internal radiation. Scofield advanced nursing conference. Iowa City. April 6, 2004
6. **Jacobson GM**, Roman S, Breast cancer education update. American Cancer Society. Iowa City April 13, 2004
7. **Jacobson, GM** The evolution of breast irradiation. ISTRO Spring Conference, Iowa City June 18, 2005
8. **Jacobson GM**, Buatti J Process algorithm for transformation to a paperless digital environment. RSNA, Chicago November 27, 2005
9. Pramanik R, **Jacobson GM**, Smith B, Rose S Malignant mixed mullerian tumors of the uterus. RSNA, Chicago November 29, 2005
10. **Jacobson, GM** Prevention of radiation induced fibrosis with pentoxifylline and antioxidants, Free Radical Science, Iowa City March 29, 2007
11. **Jacobson, GM** Update of Image Guided Radiation Therapy for Women's Health. ISTRO Fall Conference, Iowa City September 22, 2007
12. **Jacobson, GM** Yoga and quality of life measures in breast cancer patients. College of Medicine lecture, Iowa City January 17, 2008
13. **Jacobson, GM**, Smith, B. A randomized trial of pentoxifylline and vitamin E versus standard follow-up after breast irradiation to prevent breast fibrosis, evaluated by tissue compliance meter Poster presentation at ASCO. Chicago, June 2, 2008.
14. **Jacobson, GM**. Breast Cancer and the American Woman. National Organization of Black Elected Legislative Women. Des Moines, Iowa, June 28, 2008.
15. **Jacobson, GM**. Radiation therapy of the intact breast: Current issues. Presented at The University of Iowa Breast Cancer Symposium, February, 2009; Iowa City
16. **Jacobson, GM**. Image-guided brachytherapy for gynecological cancers. Presented at ISTRO Annual Conference, September 12, 2009; Des Moines, Iowa.
17. **Jacobson, GM**. Image-based treatment planning of the post-lumpectomy breast utilizing CT and 3T MRI. The 3rd World Cancer Congress 2010-Breast Cancer Conference, April 25, 2010; Shanghai, China.
18. **Jacobson, GM**. Quality assurance and patient safety in radiation oncology. Presented at ISTRO Annual Conference, September 18, 2010; Iowa City, Iowa.
19. **Jacobson, GM**. Comparison of 3D ultrasound, CT, and MRI for target definition in the post lumpectomy breast. Patient Positioning Mini Symposium, March 5, 2011; Puerto Rico.

F. Pending Decisions

[F18]FLT PET to Evaluate Response to Chemoradiation in cervical Cancer Patients.

Source:	National Cancer Institute	R21
Direct Costs:	\$500,000	Period of Funding:
PIs:	Geraldine Jacobson, Sarah McGuire, Yusuf Menda	
% Effort:	10%	

Submitted in December 2009.

IV. SERVICE

A. Memberships in Professional Organizations

1983-present	American Medical Association
1986-present	American Society of Therapeutic Radiology and Oncology
1986-present	Radiological Society of North America
1986-present	American College of Radiology
1992-present	American Society of Clinical Oncology
1996-present	American Medical Women's Association
2002-present	Iowa Society of Therapeutic Radiation Oncology (ISTRO)
2003-present	Iowa Medical Society
2003-present	American Brachytherapy Society
2003-present	American Association of Women Radiologists
2005-present	American Roentgen Ray Society
2006-present	Society of Nuclear Medicine
2006-present	Iowa Oncology Society
2007-present	American College of Physician Executives
2007-present	European Society for Therapeutic Radiology and Oncology (ESTRO)
2008-present	International Gynecologic Cancer Society
2009-present	President, Iowa Society of Radiation Oncology (ISTRO)
2010-present	Society of Gynecologic Oncologists (SGO)

State committees

2007-2009	President-elect, Iowa Society of Therapeutic Radiation Oncology (ISTRO)
2009-present	President, Iowa Society of Therapeutic Radiation Oncology (ISTRO)

2010-2011 Iowa Medical Society, Committee on Medical Services

National committees

2006 - present Government Relations Committee of the Government Relations Council of ASTRO

2010 Chair, Government relations Committee ASTRO

2006 - present Congressional Relations Subcommittee of the Government Relation Council

2007-present International Relations Committee of the Education Council of ASTRO

2007 State Grassroots Captain for Iowa; ASTRO Government Relations Committee

2008-present Chair, Congressional Relations Subcommittee of the Government Relations Council

2008 – present Quality Steering Committee of ASTRO

2005 – present Gynecology Oncology Group, Member Radiation Oncology Committee

6/2005-6/2008 Ethics Committee, American Society of Clinical Oncology (ASCO)

2006 American Society of Clinical Oncology (ASCO), IDEA Mentor

2007 Radiation Oncology Committee of American Association for Women Radiologists

2007 - present Principal Investigator, Radiation Therapy Oncology Group

2007 - present CME Reviewer, 2007 ASCO Annual Meeting, 2008 ASCO Annual Meeting

2009 - present Gynecology Oncology Group, Member Cervix Committee

2009 - present Radiation Oncology Committee of American Association for Women Radiologists

2009 - present ASTRO Finance/Audit Committee

2009 Evaluation Subcommittee, Health Policy Council, ASTRO

2009 – present International Education Subcommittee, Education Council, ASTRO

2009 - present State Captain Initiative, Government Relations Council, ASTRO

2009 – present ASTRO Clinical Affairs and Quality Council

2009 – present ASTRO representative National Quality Forum

2010 – 2011 Chair, Government Relations Committee, Government Relations Council of ASTRO

2011 Society of Gynecologic Oncologists Quality and Outcomes Committee

National cooperative groups

1992-present Radiation Therapy Oncology Group (RTOG) Institutional PI

1993-present	Gynecology Oncology Group (GOG)
2002-present	Cancer and Leukemia Group B (CALGB)
2005-present	NSABP
2007-present	American College of Radiology Imaging Network (ACRIN) Institutional PI

International committees

2006	International Committee of Medical Journal Editors, Implementation Working Group
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Departmental committees

1992-1999	Chair, Oncology Committee, Bayfront Medical Center
1993-1999	Radiation Therapy Technology Advisory Committee HCC
1995-1999	Chair, Research & Review Committee, Bayfront Medical Center
2005-present	Executive Committee, Department of Radiation Oncology, UIHC
2004-present	Chair, Department of Radiation Oncology Faculty Practice Plan Committee
2005-present	Mentor Committee member re: Joseph Modrick, Ph.D.
2005-present	Mentor Committee chair re: Sudershan Bhatia, M.D., Ph.D.
2007-present	Chair, Department of Radiation Oncology Planning Committee
2007-2008	Chair, Division of Free Radical Radiation Biology Program Faculty Search Committee

Collegiate Committees

2002-present	Membership Committee, Holden Comprehensive Cancer Center
2004-present	Carver Medical Research Initiative Pilot Grant Committee
2002-2005	Graduate Medical Education Subcommittee
2002-2005	Office of Consultation & Research in Medical Education Advisory Committee
2002-2005	Medical Student Interviews, College of Medicine
2008-present	Women in the Health Sciences Advisory Committee
2009-2011	Executive Committee, Carver College of Medicine
2009-present	Holden Comprehensive Cancer Center Protocol review and Monitoring Committee
2011-present	University of Iowa Physicians Clinical Affairs Committee

UIHC Committees

2006-present	Professional Practice Subcommittee
2006-present	Ethical Issues Subcommittee, EES Liaison
2007-2009	Health Information Management Subcommittee
2007-2008	Department of Anesthesia Review Committee

2007-present Steering Committee Member, Breast Tumor Board

UI Healthcare Committees

2007-present Medical Panel of the Credentials Subcommittee

2007-2008 Steering Committee for TRG Strategic Planning

2007-2008 Breast Health Center Committee

University Committees

2009 Committee Member, Associate Provost for Faculty Search Committee

Review Panels: Journals

Supportive Cancer Therapy

International Journal of Radiation, Oncology, Biology & Physics

International Journal of Biological Sciences

Surgical Laparoscopy, Endoscopy & Percutaneous Techniques

Radiotherapy and Oncology

Cancer

Editorial Board of Chinese Journal of Clinicians (International)

Practical Radiation Oncology

Review Panels: Grants

2008 Scientist reviewer for breast cancer research program, US Department of Defense Physical imaging in Medicine/Radiation Oncology (PIM/RON)

2009 Scientist reviewer for breast cancer research program, US Department of Defense (PIM/RON)

2009 Scientist reviewer for Susan G Komen for the Cure (Targeted therapies)

2010 Reviewer, NIH loan repayment program grants

2011 RSNA Research & Education Foundation Study Section Review Panel

2011 NCI Special Emphasis Panel for the review of 2011 Loan Repayment Program

Moderator

December 2002 Radiation Oncology Gynecology Scientific Paper Session, RSNA, Chicago

November 29, 2005 Radiation Oncology and Radiobiology (Gynecologic Cancer) Scientific Paper Session, RSNA, Chicago

February 2007 Planning Committee and Moderator, Review of 2006 San Antonio Breast Cancer Symposium, Iowa City

Course Director

September 2010 ISTRO 2010, *Radiation Oncology 2010: the next decade*, September 18, 2010, Iowa City (6.25 AMA category 1 CME)

Clinical Service

1. Gynecology Oncology Breast Service - 2002-present
2. High Dose Rate Brachytherapy Service -2002-present
3. Clinic Director Department of Radiation Oncology- 2005-present

B. Clinical assignments since last promotion

2002-2008

1. Initiation and development of high dose rate brachytherapy clinical service for gynecologic neoplasms. June 2002-present.
2. Development of Mammosite HDR procedure for internal radiation of the intact breast. 2002-present
3. Resident program director July 1 2002-July 1 2005. In conjunction with the Teaching Scholars Program, reorganized the resident training program in accordance with new ACGME competency-based guidelines.
4. Initiated review of billing procedures and organized professional audit and review of radiation oncology billing by outside consultant. This was the first systematic, professional evaluation of appropriateness of department billing codes and procedures. August 2004.
5. Co-director, Gynecology oncology-radiation oncology combined service.. 2002-present.
6. Responsibility for breast and gynecology services. 2002-present
7. Responsible for training residents in breast and gynecology subspecialty areas of radiation oncology including associated procedures. 2002-present.
8. Clinic director. 2005-present.
9. Development of workflow for applications of new technology in department: CT-PET and cone beam localization. 2006-present.
10. Development of image-guided brachytherapy for gynecology applications utilizing CT and 3T MRI-based planning.
11. Development of department clinical trials infrastructure to support patient identification and accrual to national and institutional clinical trials.

2008-present

1. Implementation of 3 T MRI based high dose rate gynecologic brachytherapy.
2. Development of integration of MRI imaging in breast treatment planning.
3. Capital budget planning for clinic operations