

CURRICULUM VITAE

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

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-medicine University of South Florida, Tampa FL |
| 7/1976-6/1977 | pre-medicine 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 | Resident in 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 |

Board certification:

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

Licensure

- California
- Florida
- Texas
- Iowa

B. Professional and Academic Positions

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|---------------|---|
| 7/1985-1/1987 | Instructor, Division of Radiation Oncology, Department of Radiology University of Utah Medical Center Salt Lake City UT |
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| 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 | Radiation Oncologist, Radiation Therapy Oncology Center Brooksville FL |
| 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-present | 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, Department of Radiation Oncology, University of Iowa Hospitals & Clinics Iowa City IA |

C. Honors and Awards

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

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 |
| May 2002 | Lecturer, Endometrial Cancer, Department of Radiation Oncology, University of Iowa Iowa City IA |

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| September 2002 | Lecturer, Wilms' tumor, Department of Radiation Oncology University of Iowa Iowa City IA |
| March 2003 | Lecturer, Craniopharyngioma, 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, Biomedical Ethics, Small group discussion University of Iowa Iowa City IA |

**B. Students supervised
(name, degree objective, outcome)**

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|------------------------------|--------------|
| Radiation Oncology Residents | 2002-present |
| Gynecology-Oncology Fellows | 2002-present |

C. Other contributions to institutional programs

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| Formal study: New Faculty Clinical Training Workshop | October 2002 |
| Formal study: Teaching Skills Seminar Series | September 2002-June 2003 |
| Formal study: Teaching Scholars Program | 2002-present |
| Gynecology/Oncology conference | 2002-present |
| Journal Club | 2002-present |
| Treatment planning conference | 2002-present |
| Morbidity and mortality | 2002-present |

III. SCHOLARSHIP

A. Publications or creative works (least to most recent)

1. **Jacobson GM**, Sause WT, O'Brien RT. Dose response analysis of pediatric neuroblastoma to megavoltage radiation. *Am. J. Clin. Oncol.* 1984;7:693-697.
2. **Jacobson GM**, Sause WT, Thomson JW, Plenk HP. Breast irradiation following silicone gel implants. *Int. J. Radiat. Oncol. Biol. Phys.* 1986;12:835-838.
3. **Jacobson GM**, Smith JA, Jr., Stewart JR. Postoperative radiation therapy for pathologic stage C prostate cancer. *Int. J. Radiat. Oncol. Biol. Phys.* 1987;13:1021-1024.
4. McNeely LK, **Jacobson GM**, Leavitt DD, Stewart JR. Electron arc therapy: chest wall irradiation of breast cancer patients. *Int. J. Radiat. Oncol. Biol. Phys.* 1988;14:1287-1294.

5. Morrill SM, Lane RG, **Jacobson G**, Rosen, II. Treatment planning optimization using constrained simulated annealing. *Phys. Med. Biol.* 1991;36:1341-1361.
6. **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. p. 477.
7. **Jacobson GM**, Kamath RS, Smith BJ, Goodheart MJ. Thromboembolic events in patients treated with definitive chemotherapy and radiation therapy for invasive cervical cancer. *Gynecol. Oncol.* 2004;96:470-474.
8. **Jacobson GM**, Betts, VL, Smith BJ. Change in volume of lumpectomy cavity during external beam irradiation of the intact breast. *Int. J. Radiat. Oncol. Biol. Phys.* Accepted February 6, 2006.

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. 27th American Brachytherapy Society Annual Meeting. Accepted February 10, 2006.

B. Areas of Research Interest and Current Projects

1. Breast and gynecologic malignancies
2. Interaction of radiation and systemic therapy
3. Mechanisms of radiation injury and healing
4. Strategies to reduce acute and chronic effects of radiation treatment

Clinical Trials

Investigator Initiated Clinical Trials

- CT-based planning of high dose rate tandem and ovoid applications. (IRB 200507777; Jacobson, PI)
- Development of Radiation Fibrosis in Patients Treated with Pentoxifylline and Vitamin E: A Prospective Randomized Study (IRB 200211003; Jacobson, PI)
- Change in volume of lumpectomy cavity during external radiation of breast (IRB 200504076; Jacobson, PI) *closed*
- Retrospective evaluation of treatment plans for high dose rate vaginal cylinders (IRB 200512723; Jacobson, PI)
- Papillary serous carcinoma of the uterus, pathologic Stage I and II, treatment results (IRB 200410782; Jacobson, PI)

- Definitive Radiation Therapy for Invasive Cervical Cancer in Patients Older Than 65 (IRB 200310041; Jacobson, PI)

Sponsored National Clinical Trials (local principal investigator)

- Mammosite patient registry: a multi-center, non-randomized, prospective registry (IRB 200302007; Jacobson, PI)

Sponsored National Clinical Trials (local co-investigator, credentialed site Radiation Oncologist):

- 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 (IRB 200505748)

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.

D. Grants Received

Healing Touch, Immunity and Fatigue in Breast Cancer

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|---------------|---------------------------|--------------------|-----------|
| Source: | National Cancer Institute | | |
| Direct Funds: | \$150,000 | Period of Funding: | 7/03-7/06 |
| PI: | Susan Lutgendorf | % of 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," American Radium Society, San Diego, California, March 1984.
2. Jacobson GM, McNeely LK, Leavitt DD, Stewart JR. "Electronic arc therapy: chest wall irradiation of breast cancer patients," American Society of Therapeutic Radiology and Oncology, Los Angeles, California, November 1986.
3. Jacobson G. "New techniques in breast radiation," The University of Iowa Breast Cancer Symposium, Iowa City, Iowa, February 2004.
4. Jacobson G. "Mammosite High Dose Radiation," 2004 Surgical Update for Nurses, Iowa City, Iowa, March 2004
5. Jacobson G. "Brachytherapy: internal radiation," 2004 Scofield Advanced Oncology Nursing Conference. Iowa City, IA, April 2004.
6. Jacobson G. "The role of radiation therapy in breast cancer treatment," American Cancer Society Education Series. Iowa City, IA, April 2004.
7. Jacobson G. "The evolution of irradiation of the intact breast," Iowa Society of Radiation Oncology. Iowa City, IA, June 2005.

8. Jacobson G. "Change in volume of lumpectomy cavity during external beam irradiation of the intact breast," ASTRO poster presentation, Denver, Colorado, October 2005.
9. Jacobson G. "Malignant mixed mullerian tumors of the uterus," RSNA, Chicago, Illinois, November 2005. Paper number SSG24-08.
10. Jacobson G. "Process algorithm for transformation to a paperless digital radiotherapy environment," RSNA, Chicago, Illinois, November 2005. Paper number 4420794.

F. Pending Decisions

IV. SERVICE

A. Memberships in Professional Organizations

| | |
|---------------------|--|
| <i>1983-present</i> | American Medical Association |
| <i>1986-present</i> | American Society of Therapeutic Radiology and Oncology |
| <i>1986-present</i> | Radiological Society of North America |
| <i>1986-present</i> | American College of Radiology |
| <i>1992-present</i> | American Society of Clinical Oncology |
| <i>1993-1999</i> | Radiation Therapy Oncology Group |
| <i>1993-present</i> | Gynecology Oncology Group, Radiation Oncology Committee (2004) |
| <i>1996-present</i> | American Medical Women's Association |
| <i>2002-present</i> | The Cancer and Leukemia Group B |
| <i>2003-present</i> | Iowa Medical Society |
| <i>2003-present</i> | American Brachytherapy Society |
| <i>2005-present</i> | NSABP |
| <i>2005-present</i> | American Roentgen Ray Society |

(National committees)

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| 10/2005-9/2006 | Government Relations Committee of ASTRO |
| 6-1-05-6-1-08 | Ethics Committee, ASCO |

(Departmental committees)

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| <i>1990-1995</i> | Mediation Committee, Pinellas County Medical Society |
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| <i>1992-1999</i> | Radiation Safety Committee, Bayfront Medical Center |
| <i>1992-1999</i> | Chair, Oncology Committee, Bayfront Medical Center |
| <i>1993-1999</i> | Radiation Therapy Technology Advisory Committee HCC |
| <i>1995-1999</i> | Chair, Research & Review Committee, Bayfront Medical Center |
| <i>1995-1999</i> | CME Committee, Bayfront Medical Center |

(Collegiate Committees)

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|---------------------|---|
| <i>2002-present</i> | Membership Committee, Holden Comprehensive Cancer Center |
| <i>2004</i> | Carver Medical Research Initiative Pilot Grant Committee |
| <i>2002-2005</i> | Graduate Medical Education Subcommittee |
| <i>2002-present</i> | Office of Consultation & Research in Medical Education Advisory Committee |
| <i>2002-2005</i> | Medical Student Review, College of Medicine |
| <i>2002-2004</i> | Medical Student Interviews, College of Medicine |

(UIHC Committees)

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| <i>2006-present</i> | Professional Practice Subcommittee, University of Iowa Hospitals & Clinics |
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(Review Panels: Journals)

Supportive Cancer Therapy

International Journal of Radiation, Oncology, Biology & Physics

(Moderator)

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| <i>December 2002</i> | Radiation Oncology Gynecology Sessions, RSNA |
| <i>November 2005</i> | Radiation Oncology and Radiobiology (Gynecologic Cancer) Sessions, RSNA |

B. Clinical assignments since last promotion

