

CURRICULUM VITAE

Karen Leslie Syrjala

Personal Data

FHCRC Office: Fred Hutchinson Cancer Research Center
1100 Fairview Avenue North, D5-220
Seattle, Washington 98109-1024

UW Internal Mailing Address: Box 358080, D5-220

Phone: 206-667-4579

Fax: 206-667-4356

Email: ksyrjala@fhcrc.org

Education

| | | | |
|--|----------------------------|------|----------------------------------|
| Wellesley College | B.A. | 1973 | Psychology with honors & English |
| Boston University | M.A. | 1980 | Clinical Psychology |
| Boston University | Ph.D. | 1983 | Clinical Psychology |
| University of Washington School of Medicine, Dept. of Anesthesiology, & Fred Hutchinson Cancer Research Center | Postdoctoral Fellowship | 1985 | Pain, Behavioral Medicine |

Postgraduate Training

Training Fellow, National Institute of Alcoholism and Alcohol Abuse; Massachusetts Division of Alcoholism; McLean Hospital, Belmont, Massachusetts and Washingtonian Center for Addictions, Jamaica Plain, Massachusetts, 1975-1976

Consultant, Division of Human Development and Guidance Resources, Maine State Department of Education, Augusta, Maine, 1976

School Psychologist, Seattle Public Schools, Seattle, Washington, 1977

Psychology Trainee, Tri-City Community Mental Health Center, Malden, Massachusetts, 1977-1978

Psychology Intern, University Hospital, Boston, Massachusetts, 1978-1979

Consulting Psychologist, New England Memorial Hospital, Stoneham, Massachusetts, 1978-1982

Staff Psychologist, Human Resource Institute, Malden, Massachusetts, 1979-1982

Consulting Psychologist, Kangaroo's Pouch/El Bucho del Canguro, Chelsea, Massachusetts, 1980-1982

Faculty Positions Held

Associate in Clinical Research, Fred Hutchinson Cancer Research Center, Seattle, 1985-1988

Acting Assistant Professor, Department of Psychiatry and Behavioral Sciences, University of Washington School of Medicine, Seattle, 1985-1994

Assistant Member, Fred Hutchinson Cancer Research Center, Seattle, 1989-1994

Associate Member, Fred Hutchinson Cancer Research Center, Seattle, 1994-2007

Associate Professor, Department of Psychiatry and Behavioral Sciences, University of Washington School of Medicine, Seattle, 1994-present

Chief, Psychiatry/Psychology Service, Fred Hutchinson Cancer Research Center, Seattle, 1996-1999

Director, Biobehavioral Sciences, Fred Hutchinson Cancer Research Center, Seattle, 1996-present

Director (interim), Survivorship Program, Fred Hutchinson Cancer Research Center, Seattle, 2008-2009

Co-Director, Survivorship Program, Fred Hutchinson Cancer Research Center, Seattle, 2006-present

Full Member, Fred Hutchinson Cancer Research Center, Seattle, 2007-present

Hospital Positions Held

Swedish Hospital Medical Center, Clinical Psychologist Privileges, 1985-2001

University of Washington Medical Center, Adjunct Medical Staff, 1995-present

Seattle Cancer Care Alliance, Medical Staff Adjunct Associate, 2001-present

Honors

Honors in the Major Field (psychology), Wellesley College, 1973
Wellesley Scholar (magna cum laude equivalent), 1973
Sigma Xi, National Honorary Scientific Society, 1973
National Institute of Alcoholism and Alcohol Abuse Fellow, 1975-1976
National Institute of Mental Health Fellow, 1977-1978

Licensure to Practice

State of Washington, 1984 Psychologist License, issued July 1984: #PY00000948
National Register of Health Service Providers in Psychology, issued August 1987: #35627

Professional Organizations

American Pain Society
Professional Development Committee, 1995-1998
Clinical Practice Guidelines Committee, 1997-2001
Director at Large (national elected position), 1997-2000
Cancer Pain Guideline Committee, 1998-2005
Scientific Program Committee, 2000-2001
Guideline Dissemination Committee, 2001-2002
Publication Committee, 2004-2008
American Psychological Association
Division 30: Psychological Hypnosis
Division 35: Psychology of Women
Division 38: Health Psychology
American Psycho-Oncology Society
American Psychosomatic Society
International Association for the Study of Pain
Chair, Education Working Group, Task Force on Cancer Pain, 1990-1996
Member, Education Committee, 2002-2005
Author, IASP Core Curriculum, 2003-2006
International Psycho-Oncology Society
Awards Committee, 4th International Congress of Psycho-Oncology, 1998
Society of Behavioral Medicine
Topic Coordinator & Co-Chair, Pain, Cancer, AIDS, and Immunology, Sixteenth Annual Meeting, 1995
Cancer Topic Reviewer, Twenty-fourth Annual Meeting, 2003
Washington-Alaska Cancer Pain Initiative
Founding Member, Steering Committee, 1990-present
Chair, Allied Health Care Professionals Committee, 1990-1997
Chair, Nominating Committee, 1994

Teaching Responsibilities

Course Lectures and Seminars:

1986 Masters Level Seminar, University of Washington School of Nursing, Behavioral Intervention with Cancer Patients (Prof. Ruth McCorkle)
1987 Residents' Course: Introduction to Cognitive Behavioral Therapy, Department of Psychiatry and Behavioral Sciences, University of Washington School of Medicine (Profs. Joan Romano and Michael Vitiello)
1987-1991 Residents' Course: Behavioral Medicine, Department of Psychiatry and Behavioral Sciences, University of Washington School of Medicine (Profs. Barbara McCann and Michael Vitiello)
1991-1993 Seminar: Death, Dying and Living with Cancer, Nutritional Sciences Interdisciplinary Graduate Program, University of Washington (Instructor Nina Valerio) (Teaching transferred to Dr. Janet Abrams, Fellow)

Teaching Responsibilities cont'd

Course Lectures and Seminars:

- 1993-1995 Health Psychology 451YA, Department of Psychology, University of Washington (Prof. Michael Vitiello)
- 1990-1996 Psychology Interns Behavioral Medicine Seminar, Department of Psychiatry and Behavioral Sciences, University of Washington School of Medicine, Topic: Cancer
- 1990-2006 Medical Student Course HuBio 516-526, University of Washington School of Medicine (Prof. John Carr then Prof. Ed Walker), Topic: Cancer
- 2003-present Psychology Residents Behavioral Medicine Seminar, Department of Psychiatry and Behavioral Sciences, University of Washington School of Medicine, Topic: Living with Cancer
- 2005, 2007 Pharmacy and Nursing Schools joint course: Pharm 568 and Nurs 533 Healthcare of Cancer Survivors (Profs. Jeannine McCune and Donna Berry), Topic: Surviving Cancer

CME courses listed under invited presentations

| <u>Individual Training and Mentorship:</u> | | <u>Total</u> |
|--|---|--------------|
| <i>Mentor</i> | Junior Faculty: 6 active | 12 |
| <i>Preceptor</i> | Postdoctoral Fellows: 2 active | 16 |
| <i>Supervisor</i> | Postdoctoral Fellows | 18 |
| <i>Research Training</i> | Oncology Fellow Research Methodology | 1 |
| <i>Research Training</i> | Oncology Resident Research Methodology | 1 |
| <i>Doctoral Dissertation Advisor:</i> | 1 active | 12 |
| <i>ISMS Project Sponsor</i> | Medical Student | 1 |
| <i>Supervisor</i> | Masters Level Students, Independent Research Courses or Practicum: | 6 |
| <i>Supervisor/Mentor</i> | Undergraduate Interns, Work Study, Independent Study Students, & Postgraduate Students, Additional Graduate Training: | 13 |
| | Clinical Psychology PhD | 4 |
| | Medicine | 3 |
| | Nursing Master's Degree | 2 |

Editorial Board Responsibilities

Editorial Board:

- Journal of Pain and Symptom Management*, 1993-2004
- BMT Newsletter*, guest editor, March 1993
- BMT Newsletter*, guest editor, May, 1993
- Pain Medicine Journal Club Journal*, 1995-1999
- Clinical Journal of Pain*, 1999-present
- Health Psychology*, 2000
- Pain*, 2000-2009 (re-appointed 2005)
- Seminars in Clinical Neuropsychiatry*, guest editor, 2003
- Journal of Cancer Pain and Symptom Palliation*, 2004-present
- Journal of Cancer Survivorship*, 2006-present

Active Reviewer 2005-Present:

- Blood*
- Bone Marrow Transplantation*
- Cancer*
- Journal of Clinical Oncology*
- Journal of Pain*
- Journal of Pain and Symptom Management*
- New England Journal of Medicine*
- Psycho-Oncology*

Special National and International Responsibilities

| | |
|--------------|---|
| 1990 | Invited Member, National Cancer Institute Workshop on Cancer Pain, Bethesda |
| 1990-1995 | Consultant, Pain Subcommittee, Eastern Cooperative Oncology Group (ECOG) |
| 1992 | Invited Member, National Cancer Institute Working Group on Cancer Pain Education, Bethesda |
| 1992 | Faculty, World Health Organization Collaborative Centers, International Workshop on Cancer Pain Relief, Beijing |
| 1992, 1993 | Peer Review Consultant, Agency for Health Care Policy and Research, Cancer Pain Guidelines |
| 1993 | Council Member, Interdisciplinary Council on Pain Management, McNeil Pharmaceutical |
| 1993 | Faculty, American Society of Clinical Oncology (ASCO) Core Curriculum Guidelines on Cancer Pain Assessment and Treatment |
| 1993, 1995 | Consultant, Technology Assessment Group |
| 1994 | Invited Member, National Institutes of Health Workshop on Biobehavioral Pain Research: A Multi-Agency Assessment of Cross-Cutting Issues and Research Needs, Nine Institute Collaborative Meeting, Rockville |
| 1995 | Consultant, Glaxo Incorporated |
| 1995 | Invited Member, National Cancer Institute Workshop on Quality of Life in Clinical Cancer Trials, Bethesda |
| 1996 | Study Section Peer Reviewer, US Army Medical Research and Material Command, Breast Cancer Research Program, (\$75,000,000 awarded) |
| 1996-1997 | Consultant, Amgen Incorporated |
| 1997 | Invited Member, Pain, Palliative and Supportive Care International Collaborative Review Group, The Cochrane Collaboration |
| 1997 | Study Section Peer Reviewer, US Army Medical Research and Material Command, Breast Cancer Research Program (\$110,000,000 awarded) |
| 1997-1998 | Speakers' Bureau, Anesta Corporation |
| 1997-2000 | Director at Large, American Pain Society, national elected position |
| 1997-2000 | Speakers' Bureau, Janssen Pharmaceutica |
| 1997-2003 | Clinical Practice Guidelines Committee, American Pain Society |
| 1997-2007 | External Advisory Group, American Cancer Society Study of Cancer Survivors |
| 1998 | Invited Speaker, National Institutes of Health/National Cancer Institute Workshop on Research Issues in Cancer Survivorship |
| 1998 | Peer Reviewer, Guidelines for Sickle Cell Pain Management, American Pain Society |
| 1998 | Awards Committee, 4 th International Congress of Psycho-Oncology |
| 1998-2003 | Member, Cancer Pain Guidelines Committee, Clinical Practice Guidelines, American Pain Society |
| 1998-present | Adult Pain Panel, National Comprehensive Cancer Network Guidelines Development Program |
| 1999 | Dukoff Visiting Professorship, Memorial Sloan-Kettering Cancer Center |
| 1999 | Invited Speaker, National Institutes of Health/National Cancer Institute Office of Cancer Survivorship sponsored workshop, Cancer Survivorship Research Challenges and Opportunities for the New Millennium, 1999 |
| 2000 | Member, National Cancer Institute Leukemia, Lymphoma and Myeloma Progress Review Group Roundtable Meeting |
| 2000-2001 | Member, Scientific Program Committee, American Pain Society |
| 2000-2003 | Chair or Member, Annual Advisory Committee, American Cancer Society Behavioral Research Center |
| 2000-2003 | Faculty, JCAHO Joint Commission Leadership Summits on Pain Management |
| 2000-2005 | Member, National Comprehensive Cancer Network Disease Specific Executive Committee for Pain Management |
| 2001 | Chair and Originator, International Meeting on Biobehavioral and Supportive Care Needs during High Dose Treatment, Scientific Meeting |

Special National and International Responsibilities cont'd

| | |
|--------------|--|
| 2001-2003 | Member, Advisory Panel, JCAHO Monograph Development Project on Pain Management Guidelines, Standards and Approaches to Measuring Performance |
| 2001-2004 | Member, American Pain Society Guideline Dissemination Committee |
| 2001-present | Board of Scientific Advisors, BMT InfoNet |
| 2002-2003 | External Mentoring Committee, Peter Trask, PhD, University of Michigan, Department of Medicine |
| 2002-2005 | Contributing Author, Core Curriculum 3 rd Revision, International Association for the Study of Pain |
| 2004-2006 | Publications Committee, American Pain Society |
| 2004 | Invited Member, Dissemination of Cancer Research Meeting, National Cancer Institute |
| 2004 | Study Section Reviewer, Scientific Review Group Subcommittee D - Clinical Studies, National Cancer Institute |
| 2004 | Study Section Reviewer, National Cancer Institute/National Center for Complementary and Alternative Medicine Special Emphasis Panel |
| 2005 | Invited Reviewer, NCI Office of Education & Special Initiatives publication |
| 2005 | Invited Member, Chronic GVHD Working Group, NIH sponsored consensus panel and meeting |
| 2005 | Study Section Reviewer, Special Emphasis Panel, Scientific Review Group Subcommittee D - Clinical Studies, National Cancer Institute |
| 2006 | Relieving Cancer Pain video adapted for use on web-based I Can Cope classes, American Cancer Society |
| 2006 | Late Effects Consultant, American Cancer Society Longitudinal Study of Cancer Survivors |
| 2006 | Invited Member, National Cancer Institute Office of Cancer Survivorship Special Meeting on Research Progress |
| 2006-2007 | Invited Planner and Speaker, Survivors Symposium, Celebrating a Second Chance at Life, BMT InfoNet sponsored conference |
| 2006-2007 | Invited Member, Late Effects/Quality of Life Committee, Blood and Marrow Transplant (BMT) Clinical Trials Network (CTN) 2007 State of the Science Symposium |
| 2006-2007 | Study Section Reviewer, National Cancer Institute Program Project applications for Prevention, Control and Population Sciences P01 Special Emphasis Panel |
| 2007 | Invited Member, National Cancer Institute's Office of Cancer Survivorship and the Lance Armstrong Foundation special meeting on Post-Treatment Follow-Up Care for Survivors of Cancer Diagnosed as Adults - Metrics of Success |
| 2008 | Invited Member, National Cancer Institute Office of Cancer Survivorship Long-Term Cancer Survivors Research Investigators' Meeting |

Special Local Responsibilities

Fred Hutchinson Cancer Research Center and Seattle Cancer Care Alliance Committees and Participation

| | |
|-----------|---|
| 1987 | Ad Hoc Performance Evaluation Committee |
| 1987-1989 | Institutional Review Board |
| 1989-1990 | Institutional Review Board (second rotation) |
| 1990-1991 | Psychosocial Services Committee |
| 1996-1997 | Psychosocial Task Force |
| 1998 | Ad Hoc Promotion Review Committee |
| 1999-2000 | Seattle Cancer Care Alliance, Psychosocial Care Management Guidance Team Member sub-teams consultant: screening & assessment, interventions & wellness, staff support |
| 1999-2004 | Outcomes Affinity Group, PHS |
| 2002 | Review Committee, Marcia Rivkin Center for Ovarian Cancer Research Pilot Study Request for Applications |
| 2003-2007 | Founder and Leader: Biobehavioral Faculty cross-division affinity group |
| 2004-2007 | IRB Serious Adverse Events Committee |
| 2005-2007 | Accreditation of Human Research Protection Programs (AAHRPP) IRB Accreditation Committee for Domain 1 |

Special Local Responsibilities cont'd

Fred Hutchinson Cancer Research Center and Seattle Cancer Care Alliance Committees cont'd

| | |
|--------------|--|
| 2005-present | Women's Wellness Center, faculty member |
| 2006-present | Faculty Advisory Committee, Library |
| 2007-present | Mentoring committee, Bonnie McGregor, PhD |
| 2007 | Adverse Event and Protocol Deviation Subcommittee, IRB |
| 2007-present | Scientific Advisory Group to External Affairs and Communications |
| 2008-present | Mentoring committee, Jonathan Bricker, PhD |
| 2008 | Promotions Committee, Public Health Sciences Division |
| 2008 | Senior Faculty Search Committee, Public Health Sciences Division |
| 2008-present | Promotions Committee, Clinical Research Division |

University of Washington Committees

| | |
|--------------|---|
| 1988- | Faculty Postdoctoral Committee, Department of Psychiatry and Behavioral Sciences |
| 1992-1999 | American Cancer Society Institutional Grant Review Committee |
| 1995-1997 | Chair, Mentoring Committee, Sari Roth-Roemer, PhD, Department of Psychiatry and Behavioral Sciences |
| 1996-1998 | Faculty Council on Faculty Affairs |
| 1996, 1997 | Promotions Committee, Department of Psychiatry and Behavioral Sciences |
| 1997 | Search Committee, Department of Psychiatry and Behavioral Sciences |
| 1997-2004 | Mentoring Committee, Jesse Fann, MD, Department of Psychiatry and Behavioral Sciences |
| 1998 | Royalty Research Fund Reviewer, University of Washington Office of Research |
| 1998-2003 | Steering Committee, Psychology Faculty Organization, University of Washington School of Medicine |
| 1998-2004 | Mentoring Committee, Karina Uldall, MD, Department of Psychiatry and Behavioral Sciences |
| 1999 | Search Committee, Department of Psychiatry and Behavioral Sciences |
| 1999 | Royalty Research Fund Reviewer, University of Washington Office of Research |
| 2000 | Promotions Committee, Department of Psychiatry and Behavioral Sciences |
| 2001 | Promotions Committee, Department of Psychiatry and Behavioral Sciences |
| 2001-2002 | Medical Student ISMS Project Reviewer |
| 2001-2003 | Chair, Mentoring Committee, Jo Ann Broeckel, PhD, Department of Psychiatry and Behavioral Sciences |
| 2001-2005 | Mentoring Committee, Stan Whitsett, PhD, Department of Psychiatry and Behavioral Sciences |
| 2001-2006 | Program Faculty, Interdisciplinary Clinical Research Skills Training, NIH funded training grant, D Cowley, PI |
| 2002-2004 | Review Committee Member, Royalty Research Fund |
| 2001-2005 | Chair, Mentoring Committee, Shelby Langer, PhD, Department of Psychiatry and Behavioral Sciences |
| 2002-present | Faculty Mentor, Biobehavioral Cancer Prevention & Control Training Program, National Cancer Institute training grant, D Patrick, PI |

Community

| | |
|--------------|--|
| 1990-2000 | Washington State Cancer Pain Initiative, Steering Committee, Nominating Committee Chair, Allied Health Providers Committee Chair |
| 1992-1995 | Pacific Northwest Cancer Pain Interest Group, Steering Committee |
| 1993-1994 | Health Care Reform Advisory Task Force for the Washington State Psychological Association |
| 2004 | Washington Comprehensive Cancer Control Partnership Medical Care Work Group, Pain Consultant |
| 2007 | Seattle Girls' School, 6 th grade Human Body Series Board Examiner |
| 2007-present | Washington Comprehensive Cancer Control Partnership Subcommittee on Survivorship, Palliative Care and End of Life Issues, Committee Member |

Administrative Responsibilities

| | |
|--------------|--|
| 1985-1988 | Clinical Coordinator, Pain and Toxicity Multidisciplinary Consultation Service, |
| 1986-1990 | Clinical Program Project Director |
| 1992-1995 | Co-Coordinator, Evaluation Program for Transplantation Services, Department of Psychiatry and Behavioral Sciences, University of Washington |
| 1988-1998 | Psychology Director, Pain and Toxicity Research Program |
| 1996-1999 | Chief, Psychiatry/Psychology Consultation Service |
| 1996-present | Director, Biobehavioral Sciences |
| 2003-2007 | Head of Biobehavioral Faculty biweekly meeting of CRD, PHS and UW oncology clinical research faculty; replaced by official BORG Affinity Group, described below |
| 2006-present | Co-Director, Survivorship Program at FHCRC, a part of the LIVESTRONG Survivorship Center of Excellence Network, Lance Armstrong Foundation funded regional program |
| 2007-present | Leader and founder of Biobehavioral and Outcomes Research Affinity Group (BORG), Cancer Consortium and Public Health Sciences Division official affinity group, monthly meeting attended by 20-40 faculty and fellows, cross divisions, departments and institutions |
| 2008-2009 | Director (interim), Survivorship Program at FHCRC/SCCA, a member of the LIVESTRONG Survivorship Center of Excellence Network (8 national Centers), Lance Armstrong Foundation supported |

Patient Care Activities:

| | |
|--------------|--|
| 1985-present | Attending psychologist |
| 1985-1990 | Direct all clinical psychology activities at FHCRC |
| 1985-1995 | Supervise postdoctoral clinical psychologists |
| 1992-1994 | Psychological evaluations, University of Washington Transplantation Services |
| 1992-1996 | Consultant to Social Work, University of Washington Cancer Center |
| 2005-2007 | Attending psychologist; Breast and Ovarian Cancer Prevention Program |
| 2006-present | Attending psychologist; Survivorship Program at FHCRC |

Research: Active Grants

| <i>Dates/Direct Costs</i> | <i>Funding Source</i> | <i>Investigators/Title of Research</i> |
|---------------------------------|--|--|
| 1. 6-05 to 5-10 \$1,986,275 | National Cancer Institute RO1 CA 112631 | <u>Syrjala KL</u> (PI). Interdisciplinary studies to enhance long term survival |
| 2. 1-06 to 12-10 \$1,749,690 | Lance Armstrong Foundation FND TE 4198 | <u>Syrjala KL</u> (PI). LiveSTRONG Survivorship Center of Excellence |
| 3. 1-08 to 2-09 \$57,539 | Lance Armstrong Foundation | <u>Syrjala KL</u> (PI). Needs Assessment for Survivors in Transition |
| 4. 4-06 to 3-09 \$250,000 | National Cancer Institute R21 CA 112477 | Langer SL (PI), <u>Syrjala KL</u> (Co-Investigator). Emotional Expression and Cancer Caregivers |
| 5. 8-03 to 5-09 | National Cancer Institute R01 CA 098906 | Martin PJ (PI), <u>Syrjala KL</u> (Co-Investigator). Mycophenolate Mofetil for Treatment of Chronic GVHD |
| 6. 6-06 to 5-09 | National Cancer Institute R21 CA 118334 | Shen D (PI), <u>Syrjala KL</u> (Co-Investigator). Modulation of Opioid Effects by Garlic Supplements |
| 7. 6-06 to 5-11 | National Cancer Institute R01 CA 119196 | Parsons S (PI), <u>Syrjala KL</u> (Site PI). HSCT-CHES to Enhance Hematopoietic Transplant Recovery |
| 8. 7-06 to 6-11 | National Cancer Institute R25 CA 092408 | Patrick D (PI), <u>Syrjala KL</u> (Steering Committee and Faculty). Biobehavioral Cancer Prevention & Control Training Program |

Pending Research

1. Costanzo E (PI). Biobehavioral mechanisms facilitating recovery from hematopoietic stem cell transplantation, National Cancer Institute, K07 application pending. Role: Mentor.
2. Jim H (PI). Genetic Predictors of Cognitive Functioning, Depression, and Fatigue in Cancer, National Cancer Institute, K07 application pending. Role: Mentor.
3. Ulrich C (PI). Health Behaviors, Molecular Markers, and Outcomes in Colorectal Cancer Patients, NIH R01. Role: Co-investigator.
4. Syrjala KL (PI). Long-term cancer survivor health promotion needs and disseminated model of care. Multi-center NIH R01.

Research: Terminated Grants

| <i>Dates/</i> | <i>Direct Costs</i> | <i>Funding Source</i> | <i>Investigators/Title of Research</i> |
|-------------------|--------------------------|---|---|
| 1. 10-83 to 8-85 | \$6170 | UWMC Institutional Biomedical Research Support Grant | Turner, J. (PI), Levy, R, Romano, J, and <u>Syrjala, KL</u> (Co-Investigator): Observable pain behaviors: relationship to other measures of pain and psychosocial characteristics |
| 2. 3-84 to 7-85 | \$3000 | American Cancer Society, Institutional Research Support Grant | <u>Syrjala, KL</u> (PI): Chemoradiotherapy toxicity: hypnosis and cognitive-behavioral interventions as palliative treatments |
| 3. 11-85 to 11-86 | \$4993 | UWMC Institutional Biomedical Research Support Grant | <u>Syrjala, KL</u> (PI), and Schubert, M (Co-PI): Behavioral interventions for reducing oral pain and other chemoradiotherapy toxicities during bone marrow transplantation |
| 4. 5-86 to 5-90 | \$3,500,000 | National Cancer Institute, P01 P01 CA 38552 | Chapman, CR (PI), Sullivan, KM (PI), and <u>Syrjala, KL</u> : Improving management of chemoradiotherapy toxicity: a multidisciplinary approach <u>Syrjala, KL</u> (Project PI): Cognitive-behavioral training in coping skills for the reduction of pain, nausea and emotional distress during bone marrow transplant <u>Syrjala, KL</u> (Project Co-PI): Biosocial determinants, manifestations and consequences of stress |
| 5. 12-90 to 12-94 | \$6,174,720 \$761,132 | National Cancer Institute, P01 P01 CA 38552 | Chapman, CR (Program Project PI): Improving management of chemoradiotherapy toxicity: a multidisciplinary approach <u>Syrjala, KL</u> (Project Leader): Cognitive behavioral pain management with a family coach during bone marrow transplant |
| 6. 6-90 to 12-94 | | National Cancer Institute & ECOG | Cleeland, CS (PI) and <u>Syrjala, KL</u> (Co-PI): Behavioral skills for cancer pain control |
| 7. 12-91 to 12-92 | \$7500 | FHCRC Institutional Grant | <u>Syrjala, KL</u> (PI): Patient skills training pilot study |
| 8. 10-92 to 9-95 | \$241,673 | National Cancer Institute R25 CA 57807 | <u>Syrjala, KL</u> (PI): Improved cancer pain treatment through a multimodal education program |
| 9. 6-93 to 6-94 | \$38,039 | FHCRC Institutional Grant | <u>Syrjala, KL</u> (PI): Cancer pain education for patients and families |

Research: Terminated Grants cont'd

| <i>Dates/ Direct Costs</i> | <i>Funding Source</i> | <i>Investigators/Title of Research</i> |
|---------------------------------|---|---|
| 10. 4-94 to 9-95 \$53,781 | National Cancer Institute CA 57807 | <u>Syrjala, KL</u> (PI): Improved cancer pain treatment through a multimodal education program (supplement) |
| 11. 7-94 to 7-98 \$778,215 | National Cancer Institute | Du Pen, S (PI), Williams, A, <u>Syrjala, KL</u> (Investigator): Pharmacologic algorithm for cancer pain management |
| 12. 9-94 to 7-99 \$1,152,256 | National Cancer Institute R01 CA 63030 | <u>Syrjala, KL</u> (PI): Enhancing recovery from bone marrow transplantation |
| 13. 7-95 to 7-97 \$93,263 | National Cancer Institute CA 63030 Supplement | <u>Syrjala, KL</u> (PI): Enhancing recovery from bone marrow transplantation: relationship of hormones to sexual function and menopausal symptoms |
| 14. 1-96 to 12-97 \$152,000 | American Cancer Society | <u>Syrjala, KL</u> (PI): Functional impairments caused by opioids. (returned because of funding overlap) |
| 15. 4-96 to 4-01 \$632,646 | National Cancer Institute R01 CA 68139 | <u>Syrjala, KL</u> (PI): Side effects of opioids |
| 16. 7-96 to 7-98 \$45,008 | National Cancer Institute CA 63030 Supplement | <u>Syrjala, KL</u> (PI): Enhancing recovery from bone marrow transplantation: relationship of cortisol and α amylase to stress |
| 17. 10-96 to 9-98 \$33,000 | UWMC Royalty Research Fund | <u>Syrjala, KL</u> (PI), Fann, J, Roth-Roemer, S: Delirium and competency to consent in patients undergoing marrow transplantation |
| 18. 12-96 to 3-98 \$56,989 | Amgen, Inc | <u>Syrjala, KL</u> (PI): Quality of life assessment for mucositis and diarrhea |
| 19. 12-96 to 11-02 \$177,393 | National Cancer Institute CA 18029 Core Grant | Appelbaum F (PI): Adult leukemia center. Sullivan KM (Core Leader), Sanders J, <u>Syrjala, KL</u> (Co-Investigator): Post transplant care |
| 20. 1-97 to 12-98 \$158,525 | American Cancer Society | Fann, J (PI), <u>Syrjala, KL</u> (Co-Investigator): Acute cognitive changes in marrow transplantation: delirium and competency |
| 21. 4-97 to 3-00 | National Institute of Drug Abuse | Shen, D (PI), <u>Syrjala, KL</u> (Co-Investigator): The effects of monoamine reuptake blockade on opioid analgesics |
| 22. 9-97 to 9-99 \$147,152 | National Cancer Institute Supplement | Sanders, JE (PI), <u>Syrjala, KL</u> (Co-Investigator): Quality of life in adult survivors of childhood leukemia |
| 23. 7-98 to 6-05 \$964,872 | National Cancer Institute R01 CA 78990 | <u>Syrjala KL</u> (PI). Enhancing long-term survival after BMT |
| 24. 2-99 to 1-05 \$918,019 | National Cancer Institute R01 CA 83403 | Coda, B (PI), <u>Syrjala KL</u> (Co-Investigator): Gender Differences in Opioid Analgesia and Side Effects |

Research: Terminated Grants cont'd

| <i>Dates/ Direct Costs</i> | <i>Funding Source</i> | <i>Investigators/Title of Research</i> |
|--|---|---|
| 25. 7-98 to 6-03 | National Cancer Institute CA 15704 Core Grant | Hartwell L (PI): Cancer center support grant. McDonald G (Core Leader), <u>Syrjala KL</u> (Co-Investigator): Complications of Cancer Treatment |
| 26. 10-99 to 10-04 \$8,804,554 | National Cancer Institute | Urban, N (PI): SPORE in ovarian cancer, Pacific Ovarian Cancer Research Consortium Andersen, R, (Project PI), Paley, P, (Project Co-PI), <u>Syrjala, KL</u> (Co-Investigator): Improving quality of life for women with ovarian cancer |
| 27. 10-99 to 6-05 \$1,915,265 | National Cancer Institute R01 CA 63030 | <u>Syrjala KL</u> (PI): Enhancing recovery from blood and marrow transplantation (national multi-site RCT, competing continuation) |
| 28. 1-00 to 3-01 \$42,000 | Microsoft Virtual World Group | Abrams, JR (Principal Investigator), <u>Syrjala, KL</u> (Co-Investigator): Computer- mediated social support for transplant recipients and their caregivers at the Pete Gross House |
| 29. 9-01 to 9-01 \$19,937 | National Cancer Institute R13 | <u>Syrjala, KL</u> (PI): Biobehavioral and Supportive Care Needs during High Dose Treatment, Scientific Meeting Grant |
| 30. 9-01 to 6-05 \$750,000 | National Center for Complimentary & Alternative Medicines R01 AT 00864 | Shen DD (PI), <u>Syrjala KL</u> (Co-Investigator): Herb-opioid interactions |
| 31. 6-02 to 6-05 \$100,000 | National Cancer Institute R03 CA 96468 | Langer S (PI), <u>Syrjala KL</u> (Co-Investigator): Caregiver desynchrony: subjective and expressive emotion |
| 32. 7-98 to 6-05 \$964,872 | National Cancer Institute R01 CA 78990 | <u>Syrjala KL</u> (PI): Enhancing long-term survival after BMT |
| 33. 11-04 to 10-06 | National Center for Complimentary & Alternative Medicines R21 | Sharar, S (PI), <u>Syrjala KL</u> (Co-Investigator): Virtual Reality Anesthesiology for Procedural Cancer Pain |
| 34. 3-05 to 3-06 \$50,000 | Cancer Research Network (HMO cooperative group) U19 CA 079689 | von Korff, M (PI), <u>Syrjala KL</u> (Co-Investigator): Use of an IVR system to reduce cancer symptoms. 2 awarded nationally |
| 35. 7-05 to 6-07 \$45,198 | National Comprehensive Cancer Network | Cella D (PI), <u>Syrjala KL</u> (site PI): Patient-centered validation of eleven NCCN/FACT symptom indices to evaluate response to chemotherapy for advanced cancer |
| 36. 7-05 to 6-07 \$50,000 for site | American Cancer Society RSGPB-02-186-01-PBP | Parsons S (PI), <u>Syrjala KL</u> (site PI): Trajectories of health and adaptation after pediatric stem cell transplantation |

Research: Terminated Grants cont'd

| <i>Dates/</i> | <i>Direct Costs</i> | <i>Funding Source</i> | <i>Investigators/Title of Research</i> |
|------------------|---------------------|--|--|
| 37. 9-05 to 8-08 | \$78,268 | Seattle Cancer and Aging Program NCI P20 CA 103728 | <u>Syrjala KL</u> (PI). Behavioral and Biologic Mechanisms for Musculoskeletal Problems in Long Term Cancer Survivors |

Bibliography

Publications:

Referred Journals

1. Chapman CR, Syrjala KL, Sargur M. Pain as a manifestation of cancer treatment. *Seminars in Oncology Nursing*. 1985, 1:100-108.
2. Romano JM, Syrjala KL, Levy RL, Turner JA, Evans P, Keefe FJ. Overt pain behaviors: relationship to patient functioning and treatment outcome. *Behavior Therapy*. 1988, 19:191-201.
3. VanDalfsen PJ, Syrjala KL. Psychological strategies in acute pain management. *Anesthesiology Clinics of North America* 1989, 7:171-181.
4. Chapko MK, Syrjala KL, Schilter L, Cummings C, Sullivan KM. Chemoradiotherapy toxicity during bone marrow transplantation: time, course and variation in pain and nausea. *Bone Marrow Transplantation*, 1989, 4:181-186.
5. VanDalfsen PJ, Syrjala KL. Psychological strategies in pain management. *Critical Care Clinics*, 1990, 6:1-11.
6. Chapko MK, Syrjala KL, Jedlow C, Yanke MR, Bush N. Development of a behavioral measure of mouth pain, nausea and wellness for patients receiving radiation and chemotherapy. *Journal of Pain and Symptom Management*. 1991, 6:15-23.
7. Syrjala KL. Cancer pain management case review: the case from the perspective of a psychologist. *Puget Sound Oncology Quarterly*. 1991, 14:3,6, 1991.
8. Syrjala KL, Cummings C, Donaldson G. Hypnosis or cognitive-behavioral training for the reduction of pain and nausea during cancer treatment: a controlled clinical trial. *Pain*. 1992, 48:137-146.
9. Syrjala KL, Chapko MK, Vitaliano PP, Cummings C, Sullivan KM. Recovery after allogeneic marrow transplantation: prospective study of predictors of long-term physical and psychosocial functioning. *Bone Marrow Transplantation*. 1993, 11:319-327.
10. Syrjala KL, Chapko ME. Evidence for a biopsychosocial model of cancer treatment-related pain. *Pain*. 1995, 61:69-79.
11. Syrjala KL, Donaldson GW, Davis MW, Kippes ME, Carr JE. Relaxation and imagery and cognitive-behavioral training reduce pain during cancer treatment: a controlled clinical trial. *Pain*. 1995, 63:189-198.
12. Roth-Roemer SL, Abrams JR, Syrjala KL. Non-pharmacologic approaches to adult cancer pain management. *APS Bulletin*. 1996, 6:1-4.
13. Roth-Roemer SL, Fann J, Syrjala KL. The importance of recognizing and measuring delirium: a commentary on the Memorial Delirium Assessment Scale. *Journal of Pain and Symptom Management*. 1997, 13:125-127.
14. Vitaliano PP, Scanlan JM, Ochs HD, Syrjala KL, Siegler IC, Snyder EA. Psychosocial stress moderates the relationship of cancer history with natural killer cell activity. *Annals of Behavioral Medicine*. 1998, 20(3):199-208.
15. Syrjala KL, Roth-Roemer SL, Abrams JR, Scanlan JM, Chapko MK, Visser S, Sanders JE. Prevalence and predictors of sexual dysfunction in long-term survivors of bone marrow transplantation. *Journal of Clinical Oncology*. 1998, 16:3148-57

Publications:

Referred Journals cont'd

16. DuPen SL, DuPen AR, Polissar N, Hansberry J, Kraybill BM, Stillman M, Panke J, Everly R, Syrjala KL. Implementing guidelines for cancer pain management: results of a randomized controlled clinical trial. *Journal of Clinical Oncology*. 1999, 17:361-370.
17. Stillman MJ, Syrjala KL. Patterns in accessing hospice care among physicians. *Journal of Pain and Symptom Management*. 1999, 17(3):157-163.
18. Coda BA, Brown MC, Risler L, Syrjala KL, Shen DD. Equivalent analgesia and side effects during epidural and pharmacokinetically-tailored intravenous infusion with matching plasma alfentanil concentrations. *Anesthesiology*. 1999, 90:98-108.
19. Grossman SA, Benedetti C, Payne R, Syrjala KL. NCCN practice guidelines for pain. *Oncology*. 1999, 13(11A):33-44.
20. Syrjala KL, Schroeder TC, Abrams JR, Atkins TZ, Brown WS, Sanders JE, Schubert MA, Heiman JR. Sexual function measurement and outcomes in cancer survivors and matched controls. *Journal of Sex Research*. 2000, 37: 213-225.
21. Du Pen A, Du Pen S, Hansberry J, Kraybill B, Millen J, Everly R, Hansen N, Syrjala KL. An educational implementation of a cancer pain algorithm for ambulatory care. *Pain Management Nursing*. 2000, 1(4) 116-128.
22. Benedetti C, Brock C, Cleeland C, Coyle N, Dube JE, Ferrell B, Hassenbusch S, Janjan NA, Lema MJ, Levy MH, Loscalzo MJ, Lynch M, Muir C, Oakes L, O'Neill A, Payne R, Syrjala KL, Urba S, Weinstein SM. National Comprehensive Cancer Network. NCCN practice guidelines for cancer pain. *Oncology*. 2000, 14(11A):135-50.
23. Farnham S, Syrjala KL, Cheng L, Clark AM, Stone L, Zaner-Godsey M, Hibbeln C, Abrams JR. HutchWorld: clinical study of computer-mediated social support for cancer patients and their caregivers. *Computer Human Interaction*. 2002, 375-382.
24. Fann JR, Roth-Roemer S, Burington B, Katon W, Syrjala KL. Delirium in patients undergoing hematopoietic stem cell transplantation: incidence and pretransplantation risk factors. *Cancer*, 2002, 95:1971-1981.
25. Langer S, Abrams JR, Syrjala KL. Caregiver and patient marital satisfaction and affect following hematopoietic stem cell transplantation: a prospective, longitudinal investigation. *Psycho-Oncology*, 2003,12: 239-253.
26. Syrjala KL. Neuropsychiatric morbidity and long term effects of high dose cancer treatment. *Seminars in Clinical Neuropsychiatry*, 2003, 8:4, 1-5.
27. Syrjala KL, Langer SL, Abrams JR, Storer B, Sanders JE, Flowers MED, Martin PJ. Recovery and long-term function after hematopoietic stem cell transplantation for leukemia or lymphoma. *JAMA*, 2004, 291: 2335-2343.
28. Lee SJ, Joffe S, Kim HT, Socie G, Gilman AL, Wingard JR, Horowitz MM, Cella D, Syrjala KL. Physicians' attitudes about quality-of-life issues in hematopoietic stem cell transplantation. *Blood*, 2004, 104:2194-2200.
29. Syrjala KL, Langer SR, Abrams JR, Storer B, Martin PJ. Physical and mental recovery after hematopoietic stem cell transplantation. *Discovery Medicine*, 2004, 4:23, 263-269.

Publications:

Referred Journals cont'd

30. Syrjala KL, Dikmen S, Langer SL, Roth-Roemer S, Abrams JR. Neuropsychologic changes from before transplantation to 1 year in patients receiving myeloablative allogeneic hematopoietic cell transplant, *Blood*, 2004, 104:3386-3392. (with editorial)
31. Keefe FJ, Ahles TA, Sutton L, Dalton J, Baucom D, Pope MS, Knowles V, McKinstry E, Furstenberg C, Syrjala K, Waters SJ, McKee D, McBride C, Rumble M, Scipio C. Partner-guided cancer pain management at end-of-life: a preliminary study. *Journal of Pain and Symptom Management*, 2005, 29:3, 263-272.
32. Fann JR, Alfano CM, Burington BE, Roth-Roemer S, Katon WJ, Syrjala KL. Clinical presentation of delirium in patients undergoing hematopoietic stem cell transplantation: delirium and distress symptoms and time course, *Cancer*, 2005, 103: 810-820.
33. Syrjala KL, Langer SL, Abrams JR, Storer BE, Martin PJ. Late effects of hematopoietic cell transplantation among 10-year adult survivors compared with case-matched controls, *Journal of Clinical Oncology*, 2005, 23: 6596-6606.
34. Couriel D, Carpenter PA, Cutler C, Bolanos-Meade J, Treister NS, Gea-Banacloche J, Shaughnessy P, Hymes S, Kim S, Wayne AS, Chien J, Neumann J, Mitchell S, Syrjala K, Moravec CK, Abramovitz L, Liebermann J, Berger A, Gerber L, Schubert M, Filipovich AH, Weisdorf D, Przepiorka D, Schubert MM, Shulman H, Schultz K, Mittelman B, Pavletic S, Vogelsang GB, Martin PJ, Lee SJ, Mary E.D. Flowers MED. Ancillary therapy and supportive care of chronic graft-versus host disease: National Institutes of Health consensus development project on criteria for clinical trials in chronic graft-versus-host disease: V. ancillary therapy and supportive care working group report, *Biology of Blood and Marrow Transplantation*, 2006, 12:375-396.
35. Swarm R, Anghelescu DL, Benedetti C, Boston B, Cleeland C, Coyle N, Deleon-Casasola OA, Eidelman A, Eilers JG, Ferrell B, Grossman SA, Janjan NA, Levy MH, Lynch M, Montana GS, Nesbit S, Oakes L, Obbens EA, Paice J, Syrjala KL. Urba S, Weinstein SM. Adult cancer pain. *Journal of the National Comprehensive Cancer Network*. 2007, 5(8):726-51.
36. Langer SL, Rudd ME, Syrjala KL. Protective buffering and emotional desynchrony among spousal caregivers of cancer patients, *Health Psychology*, 2007, 26(5): 635-643.
37. Fann JR, Alfano CM, Burington BE, Roth-Roemer S, Katon WJ, Syrjala KL. Impact of delirium on cognition, distress, and health-related quality of life after hematopoietic stem cell transplantation, *Journal of Clinical Oncology*, 2007, 25: 1223-1231.
38. Hammond C, Abrams JR, Syrjala KL. Fertility and risk factors for elevated infertility concern in 10-year hematopoietic cell transplant survivors and case-matched controls. *Journal of Clinical Oncology*, 2007, 25: 3511-3517.
39. Syrjala KL, Kurland BF, Abrams JR, Sanders JE, Heiman JR. Sexual function changes during the 5 years after high-dose treatment and hematopoietic cell transplantation for malignancy, with case-matched controls at 5 years. *Blood*, 2008, 111:989-996 (plenary paper with editorial).
40. Syrjala KL, Abrams JR, Polissar NL, Hansberry J, Robison J, DuPen S, Stillman M, Fredrickson M, Rivkin S, Feldman E, Gralow J, Rieke J, Raish RJ, Lee DJ, Cleeland CS, DuPen A. Patient training in cancer pain management using integrated print and video materials: a multisite randomized controlled trial. *Pain*, 2008, 135:175-186 (with editorial).

Publications:

Referred Journals cont'd

41. Butt Z, Rosenbloom SK, Abernethy AP, Beaumont JL, Paul D, Hampton D, Jacobsen PB, Syrjala KL, Von Roenn JH, Cella D. Fatigue is the most important symptom for advanced cancer patients who have had chemotherapy. *JNCCN – Journal of the National Comprehensive Cancer Network*, 2008, 6(5):448-455.
42. Stein KD, Syrjala KL, Andrykowski MA. Physical and psychological long-term and late effects of cancer. *Cancer*, 2008, 112(11): 2577-2592.
43. Langer SL, Brown JD, Syrjala KL. Intra- and inter-personal consequences of protective buffering among cancer patients and spouse. *Cancer*, in press.
44. Yi JC, Syrjala KL. Sexuality after hematopoietic stem cell transplantation. *The Cancer Journal*, in press.
45. Shapiro CL, McCabe M, Syrjala KL, Friedman D, Jacobs L, Ganz P, Diller L, Campbell M, Orcena K, Marcus A. The LIVESTRONG Survivorship Center of Excellence Network. *Journal of Cancer Survivorship*, in press.
46. Zaubler T, Fann JR, Roth-Roemer S, Katon WJ, Syrjala KL. Impact of delirium on decision-making capacity following hematopoietic stem cell transplantation. *Psychosomatics*, in press.
47. Langer SL, Yi JC, Storer BE, Syrjala KL. Marital satisfaction, adjustment and dissolution among hematopoietic stem cell transplant patients and spouses: A prospective, five-year longitudinal investigation. *Psycho-Oncology*, in press.
48. Syrjala KL, Yi JC, Artherholt SB, Ott SM, Flowers ME, Abrams JR, Stover AC, Chien JW, Storer B, Martin PJ. Musculoskeletal symptoms in long term cancer survivors. *Cancer*, in press.
49. Shulman LN, Jacobs LA, Greenfield S, Jones B, McCabe MS, Syrjala KL, Diller L, Shapiro CL, Marcus AC, Campbell M, Santacrose S, Kagawa-Singer M, Ganz PA. Cancer care and cancer survivorship care in the US – will we be able to care for these patients in the future? *Journal of Oncology Practice*, in press.

Publications:

Referred Journals Submitted

50. McGregor BA, Syrjala KL, Langer SL, Dolan E, Redman M. The effect of pre-transplant distress on immune reconstitution among adult hematopoietic cell transplantation patients.
51. Syrjala KL, Stover AC, Yi JC, Artherholt SB, Abrams JR. Measuring social activities and social function in survivors of hematopoietic stem cell transplantation for cancer.
52. Syrjala KL, Coda BA, Dikmen SS, Roth-Roemer SL, Risler LJ, Atkins T, Phillips B, Wallace S, Shen DD. Cognitive, affective, and psychomotor effects of morphine, hydromorphone and saline during four hour infusion at sustained, equianalgesic plasma concentrations.
53. Syrjala KL, Artherholt SB, Kurland BF, Langer SL, Martin PJ, Roth-Roemer S, Abrams JR, Broeckel-Elrod JA, Dikmen S. Five year prospective neuropsychological function after allogeneic hematopoietic cell transplantation for hematologic malignancies, with case-matched controls at 5 years.
54. Syrjala KL, Yi JC, Abrams JR. Cancer and treatment distress measure development and psychometrics.
55. Cella D, Rosenbloom SK, Beaumont JL, Yount SE, Paul D, Hampton D, Abernethy AP, Jacobsen PB, Syrjala KL, Von Roenn JH. Development and Validation of Eleven Symptom Indexes to Evaluate Response to Chemotherapy for Advanced Cancer.

Publications:

Referred Journals Submitted

56. Sanders JE, Hoffmeister P, Storer B, Applebaum F, Storb R, Syrjala KL. The Quality of Life of Adult Survivors of Childhood Hematopoietic Cell Transplant
57. Basinski JR, Alfano CM, Katon WJ, Syrjala KL, Fann JR. Impact of delirium on distress, health-related quality of life, and cognition 6 months and 1 year after hematopoietic stem cell transplantation.
58. Fann JR, Hubbard R, Alfano CM, Roth-Roemer S, Katon WJ, Syrjala KL. Pre-and post-transplantation risk factors for delirium onset and severity in patients undergoing hematopoietic stem cell transplantation.

Publications:

Book Chapters

1. Syrjala KL, Chapman CR. Measurement of clinical pain: a review and integration of research findings. In: Benedetti C, Chapman CR, and Moricca G, eds. *Advances in Pain Research and Therapy*, Vol. 7. New York: Raven Press; 1984:71-101.
2. Syrjala KL. The measurement of pain. In: Yarbro CH, McGuire DB, eds. *Cancer Pain Management*. Orlando: Grune and Stratton; 1987:133-150.
3. Chapman CR, Kornell JA, Syrjala KL. Painful complications of cancer diagnosis and therapy. In: Yarbro, CH, McGuire DB, eds. *Cancer Pain: Nursing Management*. Orlando: Grune & Stratton; 1987:47-67.
4. Syrjala KL. Multidimensional versus unidimensional scaling: little to debate, much to determine. In: Chapman CR, Loeser JD, eds. *Issues in Pain Management*. New York: Raven Press; 1989:327-335.
5. Syrjala KL. Relaxation technique. In: Bonica JJ, Chapman CR, Fordyce WE, Loeser JD, eds. *The Management of Pain in Clinical Practice, 2nd Edition*. Philadelphia: Lea & Febiger; 1990:1742-1750.
6. Chapman CR, Syrjala KL. Assessment of pain. In: Bonica JJ, Chapman CR, Fordyce WE, Loeser JD, eds. *The Management of Pain in Clinical Practice, 2nd Edition*. Philadelphia: Lea & Febiger; 1990:580-594.
7. Syrjala KL. Strategies for patient and family support. In: Kornell J, ed. *Pain Management and Care of the Terminal Patient*. Seattle: Washington State Medical Association; 1992:39-63.
8. Cleeland CS, Syrjala KL. How to assess cancer pain. In: Turk DC, Melzack, R, eds. *Handbook of Pain Assessment*. New York: Guilford Press; 1992:362-387.
9. Kornell J, Syrjala KL. Death with dignity: the Washington State experience with legislating euthanasia. *APS Bulletin*. 1993;4:1,19-20.
10. Syrjala KL. Integrating psychological and medical interventions for cancer pain. In: Chapman CR, Foley KM, eds. *Current and Emerging Issues in Cancer Pain: Research and Practice*. New York: Raven Press; 1993:393-409.
11. Buckley FP, Syrjala KL, Kornell J. Management of pain in the bone marrow transplant patient. In: Buchsel PC, Whedon MB, eds. *Bone Marrow Transplantation: Administrative and Clinical Strategies*. Boston: Jones and Bartlett Publishers; 1995:213-256.
12. Syrjala KL. Meeting psychological needs of BMT patients and families. In: Buchsel PC, Whedon MB, eds. *Bone Marrow Transplantation: Administrative and Clinical Strategies*. Boston: Jones and Bartlett Publishers; 1995:283-301.

Publications:

Book Chapters, cont'd

13. Syrjala KL, Abrams JR. Hypnosis and imagery in the treatment of pain. In: Gatchel RJ, Turk DC, eds. *Psychological Approaches to Pain Management: A Practitioners' Handbook*. New York: Guilford Publications; 1996:231-258.
14. Syrjala KL, Roth-Roemer SL. Cancer pain. In Barber J, ed. *Hypnosis and Suggestion in the Treatment of Pain*. New York: WW Norton & Co.; 1996:121-157.
15. Syrjala KL, Roth-Roemer SL. Non-pharmacologic approaches to pain. In: Berger A, Levy MH, Portenoy RK, Weissman DE, eds. *Principles and Practice of Supportive Oncology*. Philadelphia: Lippincott-Raven Publishers; 1998:77-91.
16. Syrjala KL, Abrams JR. Cancer pain. In: Gatchel RJ, Turk DC, eds. *Psychosocial Factors in Pain*. New York: Guilford Publications; 1999:301-314.
17. Buckley FP, Syrjala KL. Pain management. In: Thomas ED, Blume KG, Forman SJ, eds. *Hematopoietic Cell Transplantation, Second Edition*. Boston: Blackwell Science, Inc.; 1999:733-750.
18. Chapman CR, Syrjala KL. Measurement of pain. In: Loeser JD, Turk D, Chapman CR, Butler S, eds. *Bonica's Management of Pain, 3rd Edition*. Baltimore: Williams and Wilkins; 2000:310-328.
19. Syrjala KL. Relaxation and imagery techniques. In: Loeser JD, Turk D, Chapman CR, Butler S, eds. *Bonica's Management of Pain, 3rd Edition*. Baltimore: Williams and Wilkins; 2000:1779-1788.
20. Anderson K, Syrjala KL, Cleeland CS. How to assess cancer pain. In: Turk D, Melzack R, eds. *Handbook of Pain Assessment*. New York: Guilford Press; 2001:579-600.
21. Syrjala KL, Abrams JR. Hypnosis and imagery in the treatment of pain. In: Gatchel RJ, Turk DC, eds. *Psychological Approaches to Pain Management: A Practitioners' Handbook, 2nd Edition*. New York: Guilford Publications; 2002:98-115.
22. Syrjala KL, Roth-Roemer SL. Non-pharmacologic approaches to pain. In: Berger A, Portenoy RK, Weissman DE, eds. *Principles and Practice of Palliative Care and Supportive Oncology, 2nd Edition*. Philadelphia: Lippincott Williams & Wilkins, 2002:187-209.
23. Syrjala KL. Assessment of quality of life following hematopoietic cell transplantation. In Blume KG, Forman SJ, Appelbaum FR, eds. *Thomas' Hematopoietic Cell Transplantation, 3rd Edition*. Oxford, Blackwell Publishing, 2004:507-518.
24. Syrjala KL. Psychosocial and cultural aspects of pain. In Charlton JE, ed. *Core Curriculum for Professional Education in Pain*, Seattle, IASP Press, 2005: 47-54.
25. Syrjala KL, Martin P, Deeg J, Boeckh M. Medical and psychosocial issues in transplant survivors. In Chang AE, Ganz PA, Hayes DF, Kinsella T, Pass HI, Schiller JH, Stone R, Strecher V, eds. *Oncology: An Evidence-Based Approach*. New York, Springer-Verlag, 2006:1902-1928.
27. Syrjala KL, Martin P, Deeg J, Boeckh M. Medical and psychosocial issues in transplant survivors. In Ganz PA. *Cancer Survivorship: Today and Tomorrow*. New York, Springer, 2007:188-214.

Publications:

Book Chapters, cont'd

26. Rosenbloom SK, Yount SE, Yost KJ, Hampton D, Abernethy AP, Paul D, Jacobsen PB, Syrjala K, Von Roenn JH, Cella D. Development and Validation of Eleven Symptom Indices to Evaluate Response to Chemotherapy for Advanced Cancer: Measurement Compliance with Regulatory Demands. In: Farquhar I, Summers KH, Sorkin A, eds. *The Value of Innovation: Impacts on Health, Life Quality, and Regulatory Research*. UK, Emerald Group Publishing, Ltd, 2008:53-66.
28. Syrjala KL, Yi JC. Relaxation and imagery techniques. In: Ballantyne JC, Rathmell JP, Fishman SM, eds. *Bonica's Management of Pain, 4th Edition*. Philadelphia: Lippincott Williams & Wilkins, in press.
29. Syrjala KL, Artherholt SB. Assessment of quality of life in HCT recipients. In Appelbaum FR, Forman SJ, Negrin RS, Blume KG, eds. *Thomas' Hematopoietic Cell Transplantation, 4th Edition*. Oxford, Blackwell Publishing, in press.
30. Williams L, Syrjala KL. Psychosocial issues. In Vogelsang GB, Pavletic SZ, eds. *Chronic Graft Versus Host Disease: Principles and Practice of Interdisciplinary Management*. New York, Cambridge University Press, in press.

Publications:

Books, Journal Editions and Videotapes

1. Syrjala KL, Abrams JR, DuPen A, Niles R, Rupert J. *Relieving Cancer Pain*. Seattle, Academy Press; 1993. Book with videotape. Second Edition, 1997.
2. Syrjala KL, Garrett K, Powell-Emsbo S, Abrams JR, Pate-Willig M. *Focus Forward: Recovery Tips and Tools for Transplant Recipients and Caregivers*. (Notebook with videotape) Seattle: Fred Hutchinson Cancer Research Center; 2002.
3. Syrjala, KL. (Ed.) *The Neuropsychiatry of Cancer Treatment: Seminars in Clinical Neuropsychiatry*. 2003, 8:4.
4. Miaskowski C, Cleary J, Burney R, Coyne P, Finley R, Foster R, Grossman S, Janjan N, Ray J, Syrjala K, Weisman S, Zahrbock C. *Guideline for the Management of Cancer Pain in Adults and Children*. American Pain Society Clinical Practice Guidelines Series, No.3. Glenview, IL: American Pain Society, 2005.

Publications:

Other Publications

1. Syrjala KL, Danis B, Abrams JR, Keenan R. Coping Skills for Bone Marrow Transplantation. (with audiotape) Seattle: Printex Press; 1992.
2. Syrjala KL, Donaldson G, Cummings C. Response to G.K. Mills. *Pain*. 1992, 50:237-238.
3. Syrjala KL. Improved treatments spark new frontiers in assessing cancer pain. *Palliative Care Letter*. 1993;5:1
4. Syrjala KL. Commentary on addressing psychological challenges after cancer: a guide for clinical practice. Invited editorial, *Oncology Nurse Edition*, 2008, 22:10, 20-21.

Publications:

Copyrighted Measures Developed and Utilized by National and International Investigators in External Research

1. Sexual Function Questionnaire (SFQ; male and female versions): Distributed to 61 investigators for research use.
2. Patient Cancer and Treatment Distress (CTXD) [previously BMT Distress]: Distributed to 38 investigators for research use.
3. Caregiver Cancer and Treatment Distress (C-CTXD)
4. Cognitive-Affective Side Effects (CASE)
5. Somatic Side Effects (SSE)
6. Oral Mucositis Quality of Life (OMQOL)
7. Social Activity Log (SAL)
8. Muscles, Joints and Bones (MJB)

Abstracts:

1. Syrjala KL, Cummings C, Chapman CR, Sullivan KM. Cognitive-behavioral training to reduce chemoradiotherapy toxicities. *Pain*. 1984(Suppl) 2:S306.
2. Sullivan KM, Syrjala KL, Flournoy N, Chapman CR, Storb R, Thomas ED. Pain following intensive chemoradiotherapy and bone marrow transplantation (BMT). *Pain*. 1984(Suppl) 2, S215.
3. Syrjala KL. Behavioral management of cancer treatment pain and other side effects. American Pain Society Fifth Annual Scientific Meeting Abstracts; 1985.
4. Vitaliano P, Katon W, Maiuro R, Russo J, Syrjala K, Becker J, Bateman P, Dahlberg S. Relationships of appraisal, coping, and distress in twelve diverse samples. Western Psychological Association Abstracts; 1986.
5. Romano JM, Syrjala KL, Levy RL, Turner JA, Evans P, Keefe FJ. Observational assessment of pain behaviors: relationship to patient functioning and treatment outcome. American Pain Society Sixth Annual Scientific Meeting Abstracts; 1986.
6. Syrjala KL, Cummings C, Donaldson G, Chapman CR. Hypnosis for oral pain following chemotherapy and irradiation. *Pain*. 1987(Suppl) 4, S171.
7. VanDalfsen P, Syrjala KL, Chapko M. Development of a behavioral observation method to assess pain and wellness behaviors in bone marrow transplant patients. *Pain*. 1987(Suppl) 4, S323.
8. Romano JM, Turner JA, Syrjala KL, Levy RL. Coping strategies of chronic pain patients: relationship to patient characteristics and functioning. *Pain*. 1987(Suppl) 4, S416.
9. Chapko MK, Sullivan KM, Syrjala KL, Cummings C, Chapman CR. Oral pain resulting from chemoradiotherapy in a bone marrow transplant setting. *Pain*. 1987(Suppl) 4, S139.
10. Chapko MK, Sullivan KM, Syrjala KL, Cummings C, Chapman CR. Oral pain resulting from chemoradiotherapy in a bone marrow transplant setting. International Association for Dental Research Abstracts; 1987.
11. Syrjala KL, Chapko MK, Cummings C, Sullivan KM, Carr JE. Physical and psychosocial functioning in the first year after bone marrow transplantation: a prospective study. Abstracts, Ninth Annual Meeting of the Society of Behavioral Medicine; 1988.
12. Syrjala KL. Acute pain management. American Pain Society Ninth Annual Scientific Meeting Abstracts; 1989.

Abstracts cont'd:

13. Syrjala KL, Donaldson GW, Schubert MM, Goldberg SG, Chapko MK. A biopsychosocial model for predicting oral mucositis pain report during bone marrow transplantation. *Pain*. 1990(Suppl) 5, S366.
14. Davis MW, Williams BE, Syrjala KL, Donaldson GW. Predicting discrepancy between pain report and observed tissue damage during oral mucositis following cancer treatment. *Pain*. 1990(Suppl) 5, S366.
15. Syrjala KL, Georgiadou F, Hazlewood L, Donaldson G. Recovery from marrow transplantation (MT): physical and psychological functioning at one year posttransplant. *Experimental Hematology*. 1990;18:660.
16. Syrjala KL, Donaldson GW, Davis MW, Carr JE. Relaxation and imagery or cognitive behavioral training reduce pain during marrow transplantation: a controlled clinical trial. American Pain Society Tenth Annual Scientific Meeting Abstracts; 1991.
17. Syrjala KL, Abrams JR, Visser S. Sexual functioning after bone marrow transplantation: a prospective study. Psychosocial Oncology: Enhancing Patient and Family Care; 1992.
18. Wilson L, Syrjala KL, Holroyd K, Street J. Brief cognitive-behavioral interventions for pain: advantages and limitations of alternative modes of delivery. American Pain Society Eleventh Annual Scientific Meeting Abstracts; 1992.
19. Syrjala KL, Donaldson GW. Who benefits from cognitive behavioral skills training for pain during bone marrow transplantation (BMT)? *Pain*. 1993;Congress Abstracts, 171.
20. Roth S, Syrjala KL, Goldberg SG, Abrams JR. Psychology/psychiatry consultation-liaison needs of bone marrow transplant (BMT) patients. Society of Behavioral Medicine Fifteenth Anniversary Meeting; 1994.
21. Sullivan KM, Anasetti C, Bush N, Flowers M, Sanders J, Siadek M, Syrjala KL, Witherspoon R. Quality of life and long term complications following bone marrow transplantation. *Journal of Cellular Biochemistry*. 1994(Suppl) 18B, 48.
22. Syrjala KL, Abrams JR, Roth SL. A prospective look at recovery after bone marrow transplantation: who has what problems? American Psychiatric Association Annual Meeting Abstracts; 1994.
23. Syrjala KL, Roth SL, Abrams JR. Sexuality and infertility issues in bone marrow transplant survivors. American Psychological Association Annual Convention Abstracts; 1994.
24. Roth SL, Abrams JR, Syrjala KL. Posttraumatic stress symptoms in bone marrow transplant survivors. Society of Behavioral Medicine Sixteenth Annual Meeting Abstracts; 1995.
25. Syrjala KL, Roth SL, Abrams JR. Major depression predicts survival during life threatening medical treatment. Society of Behavioral Medicine Sixteenth Annual Meeting Abstracts; 1995.
26. Roth SL, Abrams JR, Syrjala KL. Psychological impacts and outcomes in bone marrow transplantation. American Psychological Association Annual Convention Abstracts; 1995.
27. Syrjala KL, Roth SL, Cowan J, Abrams JR, Robison J, Hansberry J, Cross J. Clinical trials with cancer patients: practical issues in selection criteria. *Annals of Behavioral Medicine*. 1996:S170.
28. DuPen S, DuPen A, Syrjala K, Hansberry J, Panke J, Kornell J, Roose W. Outcomes in cancer pain management: efficacy of an algorithmic approach. American Pain Society Fifteenth Annual Scientific Meeting Abstracts; 1996:A39.

Abstracts cont'd:

29. Stillman M, Hansberry J, Miller-Kraybill B, Lee LS, Everly R, DuPen S, DuPen A, Syrjala K. Opioids and adjuvants in neuropathic cancer pain management: efficacy of an algorithmic approach. American Pain Society Fifteenth Annual Scientific Meeting Abstracts; 1996:A39.
30. Syrjala KL, Abrams JR, Cowan J, Hansberry J, Robison J, Cross J, Roth-Roemer S, DuPen A, DuPen S, Stillman M, Cleeland CS, Fredrickson M. Is educating patients and families the route to relieving cancer pain? *Pain*, IASP Press; 1996:167.
31. DuPen S, DuPen A, Syrjala K, Hansberry J, Stillman M, Miller-Kraybill B, Panke J. Development of a clinical algorithm to implement cancer pain guidelines. *Pain*, IASP Press; 1996:167.
32. Hansberry J, DuPen S, DuPen A, Syrjala K, Stillman M, Miller-Kraybill B, Panke J, Kornell J. Measuring compliance to cancer pain management guidelines. *Pain*, IASP Press 1996;168.
33. Abrams JR, Roth-Roemer S, Cowan JE, Syrjala KL. Impact of bone marrow transplant on family caregivers. *Annals of Behavioral Medicine*, 1997;19:S172.
34. Vitaliano PP, Scanlan JM, Syrjala KL, Ochs HD, Snyder EA, Siegler IC. Negative and positive experiences moderate the relationship of cancer history with natural killer cell activity. *Annals of Behavioral Medicine*, 1997;19:S65. [Citation Paper]
35. Davies PS, Roth-Roemer S, Coda B, Cowan J, Shen DD, Risler L, Phillips B, Schroeder T, Dikmen S, Syrjala KL. Somatic side effects of morphine and hydromorphone during sustained equianalgesic infusions. American Pain Society Sixteenth Annual Scientific Meeting Abstracts; 1997:120.
36. Roth-Roemer S, Coda B, Davies PS, Dikmen S, Cowan J, Risler L, Phillips B, Schroeder T, Shen DD, Syrjala KL. Cognitive and psychomotor side effects of morphine and hydromorphone during sustained equianalgesic infusions. American Pain Society Sixteenth Annual Scientific Meeting Abstracts; 1997:120.
37. Hansberry J, DuPen, A, Everly R, DuPen S, Kraybill BM, Panke J, Roose W, Stillman M, Syrjala KL. Phase I analysis of a pharmacologic algorithm for cancer pain management - the effect of adherence to guidelines. American Pain Society Sixteenth Annual Scientific Meeting Abstracts; 1997:82.
38. Vitaliano PP, Scanlan JM, Ochs HD, Syrjala KL, Prinz P, Dyck D. Sleep problems are negatively related to natural killer cell activity in chronically stressed persons with cancer histories. *Annals of Behavioral Medicine*. 1998.
39. Syrjala KL, Abrams JR, Brown W, Roth-Roemer SL, Cowan J, Atkins TZ, Schroeder T, Sanders JE, Sherwin B, Lobo R. Sexuality in women who are postmenopausal after cancer treatment. NIH/NCI Workshop on Research Issues in Cancer Survivorship; 1998.
40. Syrjala KL, Abrams JR, Roth-Roemer SL, Heiman JR, Brown W, Cowan J, Atkins TZ, Schroeder T, Sanders JE, Sherwin BB, Lobo RA. Sexual and endocrine function in women after marrow or stem cell transplant. *Psycho-Oncology*. 1998;7:4, 267.
41. Syrjala KL, Dikmen S, Roth-Roemer S, Abrams JR, Brown W, Alsdorf B, Cowan J, Schroeder T, Atkins TZ. Neuropsychological function after marrow or stem cell transplant: prospective longitudinal results. *Psycho-Oncology*. 1998;7:4, 1.
42. Zaubler TS, Fann J, Roth-Roemer S, Pearlman R, Sullivan M, Katon W, Beach K, Syrjala KL. Competency to provide informed consent in patients undergoing bone marrow transplantation. *Psychosomatics*. 1999; 40:158.

Abstracts cont'd:

43. Syrjala KL, Dikmen S, Roth-Roemer S, Abrams JR, Brown W, Alsdorf B, Atkins TZ, Schroeder T. Prospective longitudinal neuropsychological testing of patients receiving high dose chemotherapy: results and methodologic issues. National Institutes of Health/National Cancer Institute Office of Cancer Survivorship, Cancer Survivorship Research Challenges and Opportunities for the New Millennium; Scientific Meeting, 1999.
44. Syrjala KL, Coda B, Dikmen S, Jackson A, Atkins T, Risler L, Schroeder T, Phillips B, Schen D. Side effects of morphine and hydromorphone during sustained equianalgesic infusions: results of a double-blind, randomized, controlled cross-over study. *Pain*, IASP Press, 1999:337.
45. Coda B, Syrjala KL, Dikmen S, Phillips B, Risler L, Schen D. Gender differences in side effects of mu-opioid agonists. *Pain*, IASP Press, 1999:333.
46. Erjavec MK, Coda B, Syrjala KL, Jackson A, Phillips B, Risler L, Schen D. Morphine-paroxetine interactions: analgesic and side effects in volunteers. *Pain*, IASP Press, 1999:333.
47. Fann J, Roth-Roemer S, Beach K, Brown W, Zaubler T, Abrams J, Grierson J, Atkins T, Syrjala K. Delirium in patients undergoing bone marrow and stem cell transplantation: incidence, risk factors, and short-term outcomes. *Psychosomatics*. 2000; 41:190.
48. Coda BA, Syrjala KL, Roth-Roemer S, Risler L, Shen DD. Cognitive and motor effects of morphine and hydromorphone at equianalgesic plasma concentrations. *Anesthesiology*. 2000.
49. Zaner-Godsey M, Syrjala K, Abrams J, Farnham S, Stone L, Cheng L, Clark AM. HutchWorld: computer-mediated social support for hematopoietic stem cell transplant (HSCT) recipients and their caregivers. *Medicine Meets Virtual Reality Conference, 9th Annual Meeting*; 2001.
50. Fann J, Burington BE, Roth-Roemer S, Syrjala K. Delirium and affective and cognitive outcomes in patients undergoing stem cell transplantation. *Annals of Behavioral Medicine*. 2001;23:S64.
51. Langer S, Syrjala K, Abrams J, Martin P, Flowers M, Sanders J. Recovery from stem cell transplantation: prospective, longitudinal outcomes. *Annals of Behavioral Medicine*. 2001;23:S200.
52. Sanders JE, Syrjala KL, Hoffmeister PA, Foster LD: Quality of life (QOL) of adult survivors of childhood leukemia treated with chemotherapy (CT) or bone marrow transplant (BMT). *Blood*. 2001;98(11) 741a-742a.
53. Langer S, Abrams J, Syrjala K. Affect and marital adjustment among stem cell transplant recipients and caregivers: a prospective evaluation. *Annals of Behavioral Medicine*. 2001;23, S63.
54. Langer SL, Syrjala KL, Abrams JR. Gender differences in negative affect among hematopoietic stem cell transplant survivors and caregivers. *Psychosomatic Medicine* 2002;64, S120,.
55. Broeckel JA, Langer S, Abrams J, Syrjala KL. Sexual functioning over time among hematopoietic stem cell transplant patients. *Annals of Behavioral Medicine*, 2002;24.
56. Langer S, Abrams J, Syrjala K. Caregiver and patient marital satisfaction and affect following hematopoietic stem cell transplantation: A prospective, longitudinal investigation. *Psycho-Oncology* 2002;11 S15.
57. Syrjala KL. Outcomes of depression and treatment distress in hematopoietic stem cell transplant (HSCT) patients. *Psycho-Oncology*, 2003;12(4) S218.
58. Langer S, Abrams J, Hillyer N, Delgado R, Syrjala K. Hematopoietic stem cell transplantation survivorship: Ten years later relative to case-matched controls. *Annals of Behavioral Medicine*, 2003;25, S069.

Abstracts cont'd:

59. Syrjala KL, Hays RD, Kallich JD, Farivar SS, Abrams JR, Erder MH. Impact of oral mucositis and its sequelae on quality of life. *Blood*. 2003;100(11) 222.
60. Hoffman H, Coda B, Sharar S, Kharasch E, Syrjala K, Blough D, Carrougher G., Furness T, and Shen, D. Virtual Reality analgesia during thermal and electrical pain for longer durations, and multiple treatments. *CyberTherapy*, 2004.
61. Syrjala KL, Abrams JR, Roth-Roemer SR, Dikmen S, Heiman J, Thomas AM. Efficacy of a Randomized Controlled Trial (RCT) to Enhance Recovery from Hematopoietic Stem Cell Transplantation (HSCT). *Psycho-Oncology*, 2004;13(8) 397.
62. Fann JR, Alfano CM, Burington BE, Roth-Roemer S, Katon W, Syrjala KL. Clinical presentation of delirium in patients undergoing hematopoietic stem cell transplantation. *Psychosomatics* 2005;46, 180.
63. Syrjala KL, Langer SL, Abrams JR, Storer B, Martin PJ. Comparison of Medical Needs, Function and Quality of Life in 10-Year Adult Survivors of Hematopoietic Cell Transplantation and Case-Matched Controls, *Psycho-Oncology*, 2005;14(1) S21.
64. McGregor BA, Langer SL, Syrjala KL. The effect of pre-transplant distress on immune reconstitution among adult hematopoietic cell transplantation patients. *Psychosomatic Medicine* 2005;67(1) S21.
65. Langer SL, Hillyer N, Godfrey L, Kisselev P, Walther A, Syrjala K. Gender differences in protective buffering among cancer caregivers. *Psychosomatic Medicine* 2005;67(1) S70.
66. Syrjala, KL, Dikmen S, Roth-Roemer S. Risk factors for neuropsychologic deficits following high dose chemotherapy and cranial irradiation. *Psychosomatic Medicine* 2005;67(1) S32.
67. Langer S, Hillyer N, Godfrey L, Kisselev P, WaltherA, Syrjala K. What you don't see can't hurt you: protective buffering among cancer caregivers. *Annals of Behavioral Medicine*. 2005;29, S54 (citation paper).
68. Syrjala KL, Abrams JR, Hays RD. Health-related quality of life in cancer patients with oral mucositis, *Journal of Pain*, 2005;6(3:1), S75.
69. Syrjala KL, Abrams JR, Langer SL, Hillyer N. Cancer distress as a syndrome distinct from anxiety and depression. *Annals of Behavioral Medicine*. 2005;29, S130.
70. Syrjala KL, Abrams JR, Storer B, Kurland BF. Sexual function in the 5 years after systemic high dose treatment in males and females. *Psycho-Oncology*, 2006;15, suppl. 1, S24.
71. Syrjala KL, Abrams JR, Storer B, Heiman JR, Kurland BF. Prospective risk factors for five-year sexuality late effects in men and women after haematopoietic cell transplantation. *Bone Marrow Transplantation*, 2006;37(Suppl.1) S4. (designated one of the 5 best abstracts for the EBMT meeting, Presidential Plenary presentation.)
72. Syrjala KL, Abrams JR, Langer SL. Musculoskeletal pain and weakness in long-term survivors of systemic cancer treatment. *Journal of Pain*, 2006;7(4) suppl. 2 S88.
73. Syrjala, KL, Dikmen S, Abrams JR, Broeckel Elrod J, Storer B, Roth-Roemer S. Prospective neuropsychological function in the 5 years after high dose treatment for hematologic malignancies, with case-matched controls at 5 years. *Third Biennial Cancer Survivorship Research Conference*, 2006;5, 50.
74. Langer SL, Syrjala KL. I talk and you listen: mood among cancer patient/caregiver dyads during an emotional expression exercise targeted to caregivers. *International Journal of Behavioral Medicine*, 2006;13, 224.

Abstracts cont'd:

75. Hammond C, Syrjala K, Aziz N, Abrams J. Conception and correlates of fertility related concern in 10 year hematopoietic stem cell transplant recipients and controls. *Proceedings of the American Society of Reproductive Medicine*, 2006.
76. Alfano CM, Fann JR, Sari Roth-Roemer S, Katon WJ, Syrjala KL. Impact of delirium on cognition, distress, and health-related quality of life following hematopoietic stem cell transplantation. *Psycho-Oncology*, 2007;16, suppl I, S18-S19.
77. Rosenbloom SK, Beaumont J, Diaz P, Yount SE, Abernethy AP, Jacobsen PB, Paul D, Syrjala K, Von Roenn JH, Cella D. Patient-centered validation of eleven symptom indices to evaluate response to chemotherapy for advanced cancer. *Journal of Clinical Oncology*, 2007;25(18S), 328S.
78. Langer SL, Kelly T, Syrjala KL. Subjective, expressive and physiologic indicators of emotion among cancer caregivers. *Annals of Behavioral Medicine*, 2008;35 suppl, s39.
79. Artherholt SB, Syrjala KL, Yi JC, Abrams JR, Flowers ME, Martin PJ. Undetected health problems and surveillance needs in long-term cancer survivors. *Annals of Behavioral Medicine*, 2008;35 suppl, s125.
80. Syrjala KL, Artherholt SB, Kurland B, Langer SL, Martin PJ, Roth-Roemer S, Abrams JR, Elrod JB, Dikmen S. Prospective neurocognitive function and risk factors at 5 years after allogeneic hematopoietic cell transplantation (HCT) for hematologic malignancies, compared with controls at 5 years. *Biology of Blood and Marrow Transplantation*, 2008;14(2), suppl 2, 19.
81. Kirchhoff AC; Syrjala KL. Functional status and return to full-time work for adult hematopoietic cell transplantation survivors. *Cancer Epidemiology, Biomarkers and Prevention*, 2008.
82. Syrjala KL, Yi JC, Martin PJ, Robertson HT, Ott SM, Abrams JR, Stout K, Flowers ME, Chien JW, Artherholt SB, Lee S, Stover AC. Musculoskeletal complications in long term cancer survivors receiving high dose treatment: defining syndromes, determining mechanisms. *NCI/ACS Biennial Survivorship Conference*, 2008.
83. Yi JC, Abrams JR, Artherholt SB, Stover AC, Syrjala KL. Long-term mental health, physical function and fatigue outcomes after hematopoietic cell transplantation. *NCI/ACS Biennial Survivorship Conference*, 2008.
84. Langer SL, Lucas HG, Syrjala KL. Protective buffering and marital satisfaction among cancer patients and spousal caregivers: A prospective, longitudinal investigation. *NCI/ACS Biennial Survivorship Conference*, 2008.
85. Yi JC, Artherholt SB, Stover AC, Syrjala KL. Yi JC, Artherholt SB, Stover AC, Syrjala KL, Muscles, Joints, and Bones: a measure of musculoskeletal problems in cancer survivors of hematopoietic stem cell transplantation, 2009, *Psycho-Oncology*, in press.
86. Langer SL, Lucas HG, Syrjala KL. Marital Satisfaction, Adjustment and Dissolution among Cancer Patients and Spouses: A Prospective, Five-year Longitudinal Investigation. *Annals of Behavioral Medicine*, 2009, in press.
87. Artherholt SB, Syrjala KL, Yi JC, Flowers M, Martin PJ. Metabolic Syndrome and Cardiovascular Risk in Long-Term Cancer Survivors. *Annals of Behavioral Medicine*, 2009, in press.

Invited Presentations and Workshops: National

1. Hypnosis for relief of oral mucositis pain. Orofacial Pain Conference: Pains, Drugs and Behavior; Center for Orofacial Pain Research, School of Dentistry, University of Washington and National Institute of Dental Research, Seattle, September, 1986
2. Integrating hypnosis into the care of the medical patient. Presentation followed by one-day workshop, Portland Academy for Hypnosis, Portland, Oregon, January, 1988
3. Pain and symptom control in cancer patients. Invited workshop chair, American Pain Society Annual Meeting, Phoenix, October, 1989
4. Behavioral approaches to cancer pain management. Southwest Oncology Group (SWOG) Symposium on Pain Management, Denver, May, 1990
5. Cognitive behavioral approaches to cancer pain management. Memorial Sloan-Kettering Cancer Center, New York, July, 1990
6. Management of cancer pain. Update Course Faculty, American Pain Society Ninth Annual Scientific Meeting, St. Louis, October, 1990
7. Outcome evaluation strategies. Faculty, National Meeting for State Cancer Pain Initiatives, Clearwater, Florida, February, 1991
8. Psychologic variables in cancer pain are examined for effect on overall treatment. Interview and review of research, Anesthesiology News, March, 1991
9. Behavioral medicine issues in bone marrow transplantation. Academy of Behavioral Medicine Research, Annapolis, June, 1991
10. Collaborative research. Faculty, Third National Meeting for State Cancer Pain Initiatives, Albuquerque, April, 1992
11. Integrating psychologic and medical interventions. Faculty, Current and Emerging Issues in Cancer Pain: Research & Practice, Seattle, July, 1992
12. Psychologic interventions workshop. Faculty, Current and Emerging Issues in Cancer Pain: Research & Practice, Seattle, July, 1992
13. Research and evaluation. Faculty, Fourth National Meeting for State Cancer Pain Initiatives, Charleston, March, 1993
14. Role of psychological approaches in the management of malignant and non-malignant pain. First Meeting of the Interdisciplinary Council on Pain Management, Miami, May, 1993
15. Psychological approaches for cancer pain. Faculty, American Society of Clinical Oncology (ASCO) Core Curriculum Guidelines Conference on Cancer Pain, Pittsburgh, September, 1993
16. Assuring pain relief. Workshop, National Coalition for Cancer Survivorship, Seattle, November, 1993
17. Non-pharmacological methods: what, when, where do they fit in the management of cancer pain? Keynote address, Wisconsin Cancer Pain Initiative Seventh Anniversary Meeting, Appleton, Wisconsin, January, 1994
18. Integrating medical and behavioral interventions. National Institutes of Health Workshop on Biobehavioral Pain Research: A Multi-Agency Assessment of Cross-Cutting Issues and Research Needs, Rockville, January, 1994

Invited Presentations and Workshops: National

19. Strategies for educating patients and families about cancer pain. National Cancer Institute Fifth Cancer Patient Education Conference, Pittsburgh, April, 1994
20. When medication isn't enough: non-pharmacologic methods in the relief of cancer pain. Arthur Schmale, MD Memorial Lecture, Sixth Annual Hugh Cummings Memorial Teaching Day on Cancer Pain, Rochester, June, 1994
21. Psychiatric, behavioral and cognitive complications in oncology patients. American College of Clinical Pharmacy Annual Meeting, St. Louis, August, 1994
22. Experiences of the Washington State Cancer Pain Initiative. American Pain Society 13th Annual Scientific Meeting, Miami, November, 1994
23. Research update. Sixth National Meeting for State Cancer Pain Initiatives, Portland, June, 1995
24. Decisions near the end of life: the Washington State experience. Sixth National Meeting for State Cancer Pain Initiatives, Portland, June, 1995
25. Relieving cancer pain: educating patients and families. American Pain Society 14th Annual Scientific Meeting, Los Angeles, November, 1995
26. The interdisciplinary assessment and management of cancer pain: psychological aspects. Professional Development Course, American Pain Society 14th Annual Scientific Meeting, Los Angeles, November, 1995
27. Recovery after allogeneic BMT. Quality of Life Workshop, Sixth Biennial Keystone Symposium on Bone Marrow Transplantation, Keystone, CO, January, 1996
28. Quality of life post-BMT: what we know. High Dose Therapy and Stem Cell Transplantation: New Horizons, St. Luke's Regional Medical Center Annual Meeting, Boise, ID, June, 1996
29. How to use cognitive, behavioral and physical methods to relieve pain. Professional Development Course, American Pain Society 15th Annual Scientific Meeting, Washington, DC, November, 1996
30. Side effects of opioids: maximizing symptom relief, minimizing fears. Symposium Chair, American Pain Society 15th Annual Scientific Meeting, Washington, DC, November, 1996
31. Ask the doctor: sexual problems following transplant. BMT Newsletter, 8:1, 11, 1997
32. Side effects of opioids: new questions, new strategies. Anesthesiology and Pain Grand Rounds, MD Anderson Cancer Center, Houston, March, 1997
33. Integrating pharmacologic and non-pharmacologic techniques. State Cancer Pain Initiatives 8th National Meeting, St. Paul, MN, June, 1997
34. Quality of life of bone marrow transplant recipients. Symposium Discussant, American Psychological Association Annual Convention, Chicago, August, 1997
35. Psychological factors and survival. Symposium, American Pain Society 16th Annual Scientific Meeting, New Orleans, October, 1997
36. Assessment and management of head and neck cancer pain. Symposium Chair, American Pain Society 16th Annual Scientific Meeting, New Orleans, October, 1997
37. How to use cognitive and behavioral methods to decrease pain and dysfunction. Professional Development Course, American Pain Society 16th Annual Scientific Meeting, New Orleans, October, 1997

Invited Presentations and Workshops: National cont'd

38. Assessment of neuropsychological side effects of opioids. Second Conference on Pain Management and Chemical Dependency, sponsored by NIDA, AMERSA, ASAM, New York, January, 1998
39. Nonpharmacologic interventions. Plenary Session, American Academy of Hospice and Palliative Medicine Advanced Pain Management Symposium, Seattle, March, 1998
40. Influence of pain and depression on morbidity and mortality. Visiting Professor. St. Joseph Mercy Hospital, Pontiac, MI, May, 1998
41. Managing cognitive, functional and psychological effects of opioids. American Pain Society 17th Annual Scientific Meeting, San Diego, November, 1998
42. Surviving cancer research: results from an iterative process of defining needs and implementing clinical trials. Dukoff Family Visiting Professorship Lecture, Memorial Sloan-Kettering Cancer Center, New York, January, 1999
43. Results from a decade of assessment and clinical trials on transplant patient quality of life. Hematology Conference, MD Anderson Cancer Center, Houston, February, 1999
44. NCCN practice guidelines for cancer pain. National Comprehensive Cancer Network Fourth Annual Conference: Practice Guidelines and Outcomes Data in Oncology, Fort Lauderdale, February, 1999
45. Sex after survival: enhancing women's sexual health following cancer treatment. Opening plenary session, Reproductive Health 28th Annual Continuing Education Conference for Clinicians, Portland, OR, April, 1999
46. Symptom management clinical trials: methods, results and lessons. Invited speaker, AMC Cancer Research Center, Denver, September, 1999
47. Problem-based, case-oriented, active learning discussion on chronic pain management, American Pain Society 18th Annual Scientific Meeting, Fort Lauderdale, October, 1999
48. Hypnosis for pain: what, when, how. American Pain Society 18th Annual Scientific Meeting, Fort Lauderdale, October, 1999
49. Cancer patients are non-adherent to analgesic therapy: why? American Pain Society 18th Annual Scientific Meeting, Fort Lauderdale, October, 1999
50. Cooperative group pain protocols. ECOG Prevention and Symptom Management Retreat, Boston, October, 1999
51. Life after BMT: what's good, bad and better. National Marrow Donor Program Council Meeting, Minneapolis, October, 1999
52. Outcomes of quality of life assessment and clinical trials for BMT survivors. American Society of Hematology Annual Meeting, New Orleans, December, 1999
53. Non-pharmacologic methods for pain control in acute and cancer pain settings. National conference on Pain Management: Clinical and Organizational Change Training, Seattle, May, 2000
54. Organizational barriers to effective pain management: patient factors. Joint Commission (JCAHO) Leadership Summit on Pain Management: New Standards Expectations for Pain Assessment and Treatment, twice: Chicago, May, 2000; Los Angeles, July, 2000
55. What outcomes matter to patients? Seattle Symposium on Cancer Outcomes Research, Seattle, September, 2000

Invited Presentations and Workshops: National cont'd

56. Optimizing the role of patients in pain treatment. American Pain Society 19th Annual Scientific Meeting, Atlanta, November, 2000
57. Clinical and experimental observations providing a rationale for opioid rotation in cancer pain. American Pain Society 19th Annual Scientific Meeting, Atlanta, November, 2000
58. Opioid therapy: critical issues and new directions. American Pain Society 19th Annual Scientific Meeting, Atlanta, November, 2000
59. Psychology of pain review/refresher course. American Academy of Pain Medicine 17th Annual Meeting, February, 2001
60. The patient in the pain plan: barriers, solutions, tools. Joint Commission (JCAHO) Leadership Summit on Pain Management: A Multidisciplinary Approach to Good Practices, Atlanta, December, 2001
61. Life after survival: cancer survivor benefits, needs and solutions. Guest Faculty Member, Skill Building in Psychosocial Oncology and Palliative Care, Conference sponsored by H. Lee Moffitt Cancer Center and Research Institute and University of South Florida, Tampa, March, 2002
62. Enhancing doctor-patient communication to improve pain management for minority patients with chronic pain. Invited moderator, American Pain Society 21st Annual Scientific Meeting, Baltimore, March 2002
63. Pain and attitudes toward pain in cancer patients: the extent and scope of the problem. Oncology Nursing Society Satellite Symposium on Quality of Care Standards in Cancer Pain Management, Washington, April, 2002
64. Opioid side effects. American Pain Society 23rd Annual Scientific Meeting, Vancouver, Canada, May, 2004
65. Disseminating effective interventions for transplant survivors. Dissemination of Cancer Research Meeting, National Cancer Institute, June 2004
66. Long term outcomes among adult survivors of hematopoietic stem cell transplant. Long-Term Cancer Survivors: Research Initiatives Second Annual Meeting of Research Investigators, National Cancer Institute, April 2006
67. Preparing adult survivors for long term and delayed effects of transplant. St. Luke's MSTI 12th Annual Conference on High Dose Therapy and Stem Cell Transplantation: New Horizons, Boise, June, 2006
68. Sexuality: long term function and addressing issues after HCT. St. Luke's MSTI 12th Annual Conference on High Dose Therapy and Stem Cell Transplantation: New Horizons, Boise, June, 2006
69. Survivorship programs Solid Tumor Oncology 2006, (CME course), Seattle, September, 2006
70. Physical long term and late effects. Third Biennial Cancer Survivorship Research Conference, National Cancer Institute, American Cancer Society and Lance Armstrong Foundation sponsored meeting, Washington DC, October, 2006
71. Riding the emotional roller coaster of survival. Celebrating a Second Chance at Life, A Symposium for Bone Marrow, Stem Cell and Cord Blood Transplant Survivors, Oak Brook IL, April, 2007
72. Sexuality/infertility after transplant. Celebrating a Second Chance at Life, A Symposium for Bone Marrow, Stem Cell and Cord Blood Transplant Survivors, Oak Brook IL, April, 2007

Invited Presentations and Workshops: National cont'd

73. Surviving and thriving after melanoma—What You Can Do. Melanoma Symposium: Science to Survivorship sponsored by the Melanoma Foundation, Seattle, November, 2007
74. Key issues in survivorship: coping with infertility, work, and family issues. Advances in Oncology for the Primary Care Clinician, SCCA CME, April, 2008
75. Interdisciplinary studies to enhance long-term survival. National Cancer Institute Office of Cancer Survivorship, April, 2008
76. Getting the most out of life with MDS or MPD. Current Management of Myelodysplastic Syndrome and Myeloproliferative Disorders sponsored by the Aplastic Anemia and MDS International Foundation, Seattle, June, 2008
77. Second opinion: non-Hodgkin lymphoma. PBS show, Rochester, NY taping, June, 2008
78. Neuropsychological and sexual issues. Advances in Long-Term Management of Adult Hematopoietic Stem Cell Transplant Patients Conference, San Francisco, July, 2008
79. Surviving the emotional roller coaster after BMT. Celebrating Life Symposium for Blood and Marrow Transplant Survivors, Dallas, September, 2008
80. Female sexuality after transplant: a workshop for women. Celebrating Life Symposium for Blood and Marrow Transplant Survivors, Dallas, September, 2008
81. Male sexuality after transplant: a workshop for men. Celebrating Life Symposium for Blood and Marrow Transplant Survivors, Dallas, September, 2008
82. Developing and sustaining survivorship research at cancer centers. 7th Annual American Association for Cancer Research, Frontiers in Cancer Prevention and Research Conference, Cancer Control and Population Science Directors and Program Leaders Meeting, National Harbor, MD, November, 2008
83. Update on adult cancer survivorship research and clinical programs. Grand Rounds, MD Anderson Cancer Research Center, Houston, December, 2008
84. Understanding and responding to quality of life issues after transplant. Annual Stem Cell Transplantation Conference: Developing Best Practice, Portland, OR, January, 2009

Invited Presentations and Workshops: International

1. A model for the clinical assessment of cancer pain. Two day panel, Second International Congress on Cancer Pain, Rye, New York, July 1988
2. Liberalisation de la prescription de morphine pour les patients douloureux. Hopital International de l'Universite for Symptom Evaluation, Paris, March, 1990
3. Combined use of opioids and behavioral therapy for the treatment of cancer pain. Annual Meeting of the Thai Society of Anesthesiologists, Bangkok, March, 1990
4. Psychological treatment of cancer pain. Indian Society for the Study of Pain and World Congress on Pain Satellite Meeting: Cancer Pain Relief in Developing Countries, Bombay, March, 1990
5. Assessment of pain. Faculty, International Workshop on Cancer Pain Relief and Research, sponsored by the World Health Organization, Beijing, June, 1992
6. Non-drug treatment methods in cancer pain management. Faculty, International Workshop on Cancer Pain Relief and Research, sponsored by the World Health Organization, Beijing, June, 1992
7. Imagery and other cognitive behavioral methods to assist bone marrow transplant patients in coping with symptoms of treatment: results of controlled clinical trials. International Workshop on Bone Marrow Transplantation, Ulm, Germany, May, 1994
8. Physical and psychosocial recovery after bone marrow transplantation. International Workshop on Bone Marrow Transplantation, Ulm, Germany, May, 1994
9. Cancer pain in the United States. Keynote address, Societe Francaise de la Douleur and EuroCancer 95 meeting, Paris, June, 1995
10. Interventions to improve quality of life in BMT recipients. Second International Workshop on Bone Marrow Transplantation, Hamburg, May, 1996
11. Psychological predictors of survival and long term function after BMT. Second International Workshop on Bone Marrow Transplantation, Hamburg, May, 1996
12. Psychological intervention for bone marrow transplant recipients: results of controlled clinical trials. Eleventh Congress of the German Society for Medical Psychology, Leipzig, May, 1996
13. Do psychosocial factors impact pain or survival? How to Assess and Treat Pain in Cancer and AIDS Patients. Satellite to the IASP 8th World Congress on Pain, Houston, August, 1996
14. Hypnosis and suggestion in the treatment of cancer pain. Pain Management at the University of Washington. Satellite to the IASP 8th World Congress on Pain, Seattle, August, 1996
15. Sexuality and infertility after bone marrow transplant (BMT): What do we know and what can we do? 8th Annual Conference of Transplant Recipients International Organization (TRIO), Nashville, September, 1996
16. Psychooncology: monitoring of patients during and after BMT. EBMT Working Party on Late Effects, Munich, October, 1996
17. Psychosocial stress, risk factors and treatment during and after BMT. Keynote for the Congress on Health, Relationships and Development, Satellite Symposium on BMT, Munich, November, 1996
18. Interaction of psychological, physical and medical factors in recovery from transplantation. Presidential Symposium, Molecular Biology of Hematopoiesis 10th Symposium, Hamburg, July, 1997

Invited Presentations and Workshops: International cont'd

19. BMT. Symposium chair, Satellite Workshop on BMT, 4th International Congress of Psycho-Oncology, Hamburg, September, 1998
20. Bone marrow transplantation II. Symposium session chair, 4th International Congress of Psycho-Oncology, Hamburg, September, 1998
21. Psychosocial intervention in BMT: Where are we now? Where do we go from here? Plenary speaker, 25th Annual Meeting of the European Group for Bone Marrow Transplantation, Hamburg, March, 1999
22. Interventions for recovery: focused problems, targeted solutions. International Meeting on Biobehavioral and Supportive Care during High Dose Treatment, Seattle, September, 2001
23. Outcomes of Depression and Treatment Distress in Hematopoietic Stem Cell Transplant (HSCT) Patients. Symposium on HSCT, International Psycho-Oncology Society, Banff, Canada, April, 2003
24. Psycho-oncology in hematopoietic stem cell transplant (HSCT). Symposium on HSCT, International Psycho-Oncology Society, Banff, Canada, April, 2003
25. Survivor needs for supportive care. First International Symposium on Supportive Palliative Care and End of Life Care, National Cancer Research Institute of the UK, co-sponsored by the Canadian and US NCI's, October, 2005
26. Neuropsychological changes after adult myeloablative allogeneic hematopoietic stem cell transplant. Third International Ulm Workshop on Psycho-Oncology, Ulm, Germany, June, 2005
27. Methodology issues in neuropsychological research in HSCT. Universitätsklinikum Hamburg-Eppendorf, Hamburg, March, 2006
28. Psychological responses to transplant. Annual BMT Tandem Meeting for Center for International Blood and Marrow Transplant Research and American Society for Blood and Marrow Transplantation, San Diego, February, 2008