Cancer Physiatry

STRENGTHENING LINKAGES FAMILY PHYSICIAN WORKSHOP

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Faculty/Presenter Disclosure

- Faculty: George Francis (Clinical Assistant Professor, University of Calgary)
- Relationships with commercial interests:
 - ► None

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Learning Objectives

01

Define 4 stages of cancer rehabilitation 02

List 5 issues that cancer physiatry can address/help manage 03

Know how to refer to the rehabilitation oncology program

About myself















Born and raised in Calgary Completed B.Sc at UofC

Medical school at UofA Residency at UofA

Fellowship at MDACC in Texas Returned here and been working here since 2017

What is Physiatry?



A medical specialty also known as Physical Medicine and Rehabilitation

	Known as Physiatrists or Rehabilitation
	Specialists



Physiatry deals with bone, muscle, tendon and nerve issues that impair function

What is cancer rehabilitation?

What is cancer rehabilitation?

"Cancer rehabilitation aims to allow the patient to achieve optimal physical, social, physiological and vocational functioning within the limits imposed by the disease and its treatment."

- Cromes GJ: Implementation of interdisciplinary cancer rehabilitation. Rehabil Counseling Bull 21:230-237, 1978

1) Systemic:

a. DECONDITIONING/CACHEXIA/ASTHENIA

b. CANCER RELATED FATIGUE

2) Neurologic:

- a. Brain Injury from brain mass
 - i. Todd's Paralysis
- b. Spinal Cord Injury due to spinal mass and/or compression from vertebral fracture
 - i. Lower motor neuron e.g. sacrectomy
 - ii. Upper motor neuron
- c. Central nervous system radiation necrosis
- d. Radiculopathy due to tumor invasion
- e. Plexopathy due to radiation or tumor invasion
- f. CHEMOTHERAPY INDUCED PERIPHERAL NEUROPATHY
- g. Neurogenic Bowel
- h. Neurogenic Bladder
- i. Spasticity
- j. Cognitive Deficits including CHEMO-BRAIN
- k. Autonomic Dysfunction including Orthostatic Hypotension
- I. Dysphagia
- m. Dysphonia
- n. Paraneoplastic syndromes
 - i. Neuropathy
 - ii. Cerebellar Dysfunction

- 1) Musculoskeletal:
 - a. POST-MASTECTOMY RECONSTRUCTION SYNDROME
 - **b. RADIATION FIBROSIS SYNDROME**
 - c. Myofascial Pain including trigger points
 - d. LYMPHEDEMA
 - e. Peripheral edema due to other conditions (e.g. bone marrow transplant inflammation, hypoalbuminemia)
 - f. Pathologic Bone Pain
 - g. Amputation (e.g. External Hemipelvectomy)
 - h. STEROID MYOPATHY
 - i. Muscle imbalance
 - j. Shoulder pain
 - k. Joint Pain/Arthralgias (e.g. due to anti-estrogen medications)
 - I. Reduced joint range of motion due to GRAFT VERSUS HOST DISEASE
 - m. Osteopenia/Osteoporosis
 - n. Restrictions due to post-surgical flaps
- 2) Miscellaneous
 - a. Opiate induced Constipation

Why is it important?

SURVIVAL RATES

Cancer Facts & Figures 2017. American Cancer Society. Available at: https://www.cancer.org/rese arch/cancer-factsstatistics/all-cancer-factsfigures/cancer-facts-figures-2017.html

1991 → **2015**

THE OVERALL CANCER DEATH RATE IN THE UNITED STATES



Trends in Five-year Relative Survival Rates (%), 1975-2012

Site	1975-1977	1987-1989	2006-2012
All sites	49	55	69
Breast (female)	75	84	91
Colorectum	50	60	66
Leukemia	34	43	63
Lung & bronchus	12	13	19
Melanoma of the skin	82	88	93
Non-Hodgkin lymphoma	47	51	73
Ovary	36	38	46
Pancreas	3	4	9
Prostate	68	83	99
Urinary bladder	72	79	79

SEER Cancer Statistics Review, 1975-2015 Cancer.gov

Reasons Improved Performance Status can Affect Survival

The mechanisms for improved survival could include:

- 1) Earlier diagnosis
- 2) Treatment completion rates
- 3) Treatment response

4) Performance status does impact treatment decisions



Cancer is a dynamic disease

REHAB STATUS AND GOALS MUST CONSISTENTLY BE REEVALUATED.



Functional Graph – Conventional Rehab Patient



Functional Graph-Cancer Pt.



Goals of Cancer Rehabilitation

Preventive

Restorative

Supportive

Palliative

Preventive Rehabilitation

Preclude or minimize functional morbidity caused by cancer or its treatment before it happens.

Example: Prophylactic range of motion of irradiated soft tissue before head and neck radiation

Goals of Cancer Rehabilitation

Preventive

Restorative

Supportive

Palliative

Restorative Rehabilitation

Return to premorbid functional status when little or no long-term impairment is anticipated.

Example: Strength & range of motion following mastectomy

Goals of Cancer Rehabilitation

Preventive

Restorative

Supportive

Palliative

Supportive Rehabilitation

Maximize function after permanent impairments caused by cancer and/or its treatment

Example: Post-sacrectomy bowel, bladder and ambulation

Goals of Cancer Rehabilitation

Preventive

Restorative

Supportive

Palliative

Palliative Rehabilitation

For those with advanced cancer: reduction of dependence in mobility and self-care activities in association with the provision of comfort and emotional support

Examples:

- Bowel & bladder incontinence
- Mobility and energy conservation



Barriers to Cancer Rehabilitation

- Lack of education & expertise
- Limited evidence/literature
- Limited referral & education on impact
- Lack of access/development

Barriers to Cancer Rehabilitation

Lack of education & expertise

Residency Training

EDUCATION & ADMINISTRATION

Cancer Rehabilitation Education During Physical Medicine and Rehabilitation Residency

Preliminary Data Regarding the Quality and Quantity of Experiences

ABSTRACT

Raj VS, Balouch J, Norton JH: Cancer rehabilitation education during physical medicine and rehabilitation residency: preliminary data regarding the quality and quantity of experiences. Am J Phys Med Rehabil 2014;93:445–452.

Barriers to Cancer Rehabilitation

- Lack of education & expertise
- Limited evidence/literature





Effectiveness of Multidimensional Cancer Survivor Rehabilitation and Cost-Effectiveness of Cancer Rehabilitation in General: A Systematic Review

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Barriers to Cancer Rehabilitation

- Lack of education & expertise
- Limited evidence/literature
- Limited detection & referral

Support Care Cancer (2009) 17:61-67 DOI 10.1007/s00520-008-0461-x

ORIGINAL ARTICLE

The detection and treatment of cancer-related functional problems in an outpatient setting

A. L. Cheville · L. A. Beck · T. L. Petersen · R. S. Marks · G. L. Gamble

Received: 24 January 2008 / Accepted: 9 April 2008 / Published online: 14 May 2008 © Springer-Verlag 2008

Barriers to Cancer Rehabilitation

- Lack of education & expertise
- Limited evidence/literature
- Limited detection & referral
- Lack of access/development (only 1 fellowship program in Canada)

Specific cancerrelated impairments Radiation fibrosis syndrome

Aromatase-Inhibitor – induced arthralgias

Chemotherapy Induced Peripheral Neuropathy

Post Mastectomy Pain Syndrome

Lymphedema

Radiation Fibrosis Syndrome

- Definition: insidious pathologic fibrotic tissue sclerosis that often occurs in response to radiation exposure.
- Umbrella term: radiation fibrosis syndrome (RFS) describes the myriad clinical manifestations of progressive fibrotic tissue sclerosis that result from radiation treatment.
- Three histopathological phases:
 - (1) a prefibrotic phase characterized by chronic inflammation
 - (2) an organized fibrosis phase with patchy areas of active fibrosis containing a high density of myofibroblasts in an unorganized matrix adjacent to poorly cellularized fibrotic areas of senescent fibrocytes in a dense sclerotic matrix
 - (3) a late fibroatrophic phase, characterized by retractile fibrosis and gradual loss of parenchymal cells

Head and Neck Issues

► Head Drop

► Trismus

- Cervical Dystonia
- Shoulder pain/dysfunction



Radiation Fibrosis Syndrome

- Risk factors include field and amount of radiation (50 gy), with lymphoma and Head and Neck cancers being high risk
- The neuromuscular complications of radiation stem from both direct and indirect effects of progressive fibrotic sclerosis on neural structures, including the brain, spinal cord, nerve root, plexus, all components of the peripheral nerve (motor, sensory, autonomic), and muscle



Treatment for RFS

- Exercise Program
- Tongue Depressors
- Devices (Therabite, Dynasplint, Headmaster)
- Neuropathic agents (oral, topical)
- ► TPI or Botulinum Toxin



Aromatase-Inhibitorassociated MusculoSkeletal Syndrome (AIMSS)

- Adjuvant treatment for ER+ breast cancers with anastrazole, letrozole or exemestane (superior to tamoxifen)
- 10 year therapy
- Incidence of musculoskeletal symptoms to be as much as 50%
- Usually presents as symmetrical pain or soreness in the hands, knees, hips, lower back, shoulders, and/or feet.
- It is often associated with early-morning stiffness and difficulty sleeping
- There may be additional extra-articular symptoms present, such as myalgia, fibromyalgia, neuropathy and carpal tunnel syndrome

Aromatase-Inhibitor-associated MusculoSkeletal Syndrome (AIMSS)

MRI studies conducted on patients taking aromatase inhibitors have shown the development of tenosynovial changes and increased intra-articular fluid in patients with AIMSS

Most of the symptoms will develop within the first two to three months of AI treatment

Discontinuation of treatment often occurs thus increasing risk of recurrence, progression and metastases

Acupuncture, electroacupuncture

Aromatase-Inhibitorassociated MusculoSkeletal Syndrome (AIMSS)

Testosterone, Celebrex, switch, Cymbalta, prednisolone bisphosphonates, diuretics, OTC analgesics

Omega 3 fatty acids, Vit D, Vit E, glucosamine/chondroitin

Aerobic and resistance exercises, aquatics, walking, yoga

Chemotherapy-Induced Peripheral Neuropathy

- Causes: Taxanes, vinca alkaloids, platinum compounds, bortezomib, and thalidomide
- CIPN is mainly involved in a sensory stocking-glove peripheral axonal neuropathy though some patients experience motor symptoms such as weakness and autonomic neuropathy
- Pain, allodynia, loss of sensation, paresthesia, numbness, tingling, and gait disturbance
- Commonly occurs within 1 month after cessation of therapy

Chemotherapy-Induced Peripheral Neuropathy

Moderate recommendation:

To date, only Duloxetine and photobiomodulation (PBM) x 8 weeks can be considered to provide a modest benefit for patients with CIPN Chemotherapy-Induced Peripheral Neuropathy

- Interdisciplinary treatment
- Neuropathic agents (Cymbalta, AEDs, TCAs, methadone, cannabinoids) oral & topical
- Desensitization, education, fall prevention
- Kinesiotape, mindfulness, TENS, acupuncture

Postmastectomy Pain Syndrome

- Pain lasting at least 3 months following any breast surgery not due to tumour recurrence or infection
- Neuropathic but many other multifactorial etiologies: damage to the intercostobrachial nerve, axillary nerve, or chest wall; phantom breast pain; incisional pain; MSK pain; neuroma; other nerves (intercostal, medial & lateral pectoral; thoracodorsal; long thoracic)
- ▶ Up to 70% of women; 44% with pain 4 years post-procedure
- Diffuse pain with localized emphasis to axilla, operative site, or ipsilateral arm; decreased range of motion and strength
- RF: Young age, low SES, ANLD, ICBN damage, adjuvant radiation, perioperative mood disorder

Postmastectomy Pain Syndrome: Contributors

Rotator Cuff Dysfunction

ICBN Neuralgia

Chest wall pain (neuroma, incisional pain) Axillary web syndrome

Phantom breast pain

Postmastectomy Pain Syndrome: Treatments

Amitriptyline

- Venlafaxine
- ► Topical capsaicin
- ► Acupuncture
- Autologous fat grafting

LYMPHEDEMA

- The abnormal accumulation of interstitial fluid and fibroadipose tissues
- Primary (Congenital) and **Secondary** (Acquired from injury or infection)
- Occurs when the lymphatic load exceeds the transport capacity of the lymphatic system, which causes filtered fluid to accumulate in the interstitium





Symptoms/diagnosis

SWELLING, (NOTE OVERLY TIGHT CLOTHING / JEWELLERY) EXTREMITY SUBJECTIVE HEAVINESS, NUMBNESS, TINGLING DECREASED MOBILITY, RANGE OF MOTION PAIN AND/OR DISCOMFORT INFECTION (TYPICALLY CELLULITIS)

COMPLETE DECONGESTIVE THERAPY

Compression bandaging

Compression garments/systems

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Manual Lymphatic Drainage (MLD)

Skin Care

Exercise

Education

OTHER TREATMENTS INCLUDE LOW LEVEL LASER, ACUPUNCTURE, KINESIOTAPING, COMPRESSION PUMPS

COMPRESSION GARMENTS

- Elasticity to prevent swelling
- Examples in Alberta: Medivan, Juzo, Venosan



COMPRESSION BANDAGING

- Intended to be tight/restrictive to some extent to prevent swelling
- Examples in Alberta: Coban, Tubigrip





Source: Coban & Tubigrip Vendors

MANUAL LYMPHATIC DRAINAGE

Lymphatic massage technique that enhances filling of the cutaneous lymphatics and improves dilation and contraction of the lymphatic vessels



PM&R Services: Procedures in Cancer Survivorship

Procedures

- Botox
 - Spasticity
 - Radiation Fibrosis Syndrome
 - Post-mastectomy Reconstructive Syndrome
- Trigger point injections
 - Radiation Fibrosis Syndrome
 - Post-mastectomy Reconstructive Syndrome
- Joint injections
- EMG

Rehabilitation Oncology Team (Calgary)

Physiotherapy

Occupational Therapy

Therapy Assistant

Speech Language Pathology

Physiatry

Rehabilitation Oncology Care

Loss or cho range of strength, k	anges in motion, palance	Fatigue, deconditioning			Changes in activities of daily living		Speech and swallowing changes		
Neuropathies (chemotherapy induced peripheral neuropathies)		Neurological impairments (often brain tumors)			Radiation Fibrosis (scar tissue post-RT)		Trismus (lock jaw)		
Cognitive chan (memory, attention)		changes nory, ntion)	Seco lymph caus cancer/	on e ie tr	dary dema d by eatment		Facilitatir to w	ng return ⁄ork	

Physiatry: Dr George Francis

- 1.5 clinics per week (3 half days)
- Waitlist time: 2 weeks 3 months
- <u>Referrals</u>: Triaged by our team. Patients often see OT and/ or PT while on physiatry waitlist
- Listed on the <u>Alberta Referral Directory</u> (ARD) under Rehabilitation Oncology

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Rehabilitation Oncology - Physiatry at Holy Cross Centre

Alberta Health Services - CancerControl Alberta

Estimated time to routine appointment: Within 3 months

SERVICE DESCRIPTION	REFERRAL PHONE
Rehabilitation Oncology (South) programs cancer physiatrist provides assessment, treatment and management of cancer-related side effects to help improve function and quality of life. Physiatrists are medical doctors who have completed specialized training in physical medicine and rehabilitation. Patients seen by physiatrist, benefit from earlier identification and treatment of rehabilitation issues patentially stamming from the cancer itself.	403-476-2910
by physiatry benefit from earlier identification and treatment of relabilitation issues potentially stemming from the cancer itself	
Physiatry can assist with medical management along the cancer experience from diagnosis, treatment and survivorship. Assessment and treatment approaches include:	403-476-2457
 electromyography (EMG) and nerve conduction studies 	
 symptom management such as pain, joint stiffness, deconditioning, fatigue, numbness in hands and feet (peripheral neuropathy), spasticity 	
 corticosteroid joint injections, trigger point injections and botulinum toxin injections 	
 prescriptions (for medications and return to work/school/ leisure recommendations) 	
 referrals to rehabilitation professionals such as occupational therapy, physiotherapy and speech language pathology 	
 referrals for community-based programs such as Community Accessible Rehabilitation, Palliative Home Care, Alberta 	
Cancer Exercise program and Alberta Healthy Living	

Physiatry visits are offered in-person and virtually (phone and online platforms like Zoom). Your doctor will get a written report after your assessment.

URGENT REFERRAL PROCESS

Mark referral URGENT and fax to 403-476-2457 and call clinic coordinator to discuss at 403-476-2448. The following urgent referrals are typically seen within 1 to 2 weeks and may be seen by physiatry and/ or physiotherapy:

- Functional and rehabilitation concerns affecting return to work or upcoming cancer treatment in the next 2-4 weeks, requiring a physician's prescription/ recommendations
- Acute trismus (lockjaw) on radiation treatment
- Palliative pain and/or lymphedema issues
- Bone metastases with falls risk
- Shoulder ROM delaying the start of radiation
- Recent falls / high falls risk (i.e. falls occurred within the past 4 weeks)
- Recent cellulitis from lymphedema (recent= within the last 4 weeks)
- Upcoming lymphedema surgery (surgery date is in next 2-4 weeks)

Referral Triage

Urgent: 1-2 weeks

Semi-urgent: 2 weeks

Routine: 6-8 weeks

C

Referrals are made to the program (i.e. we will triage the referral and involve the necessary disciplines to meet patients' goals/needs)

Cancer Survivorship Programs in Calgary

- Rehabilitation Oncology Program Holy Cross Centre
 - https://www.albertahealthservices.ca/cancer/Page17173.aspx
- Psychosocial Oncology Program Holy Cross Centre
 - https://www.albertahealthservices.ca/cancer/Page17172.aspx
- Wellspring
 - https://wellspringcalgary.ca
- ACE Alberta Cancer Exercise Program
 - https://www.albertacancerexercise.com
- Breast Cancer Supportive Care Centre
 - https://www.breastcancersupportivecare.ca
- Cancer Care Alberta Group Classes
 - https://www.albertahealthservices.ca/cancer/Page16323.aspx

Summary

Cancer rehabilitation = multidisciplinary treatment of cancer survivor symptoms and functional impairments

Cancer physiatry is one component of this

Learning Objectives



List 5 issues that cancer physiatry can address/help manage

2

Know how to refer to the rehabilitation oncology program

3

Questions/thoughts for you:

- What questions can you ask cancer survivors in your practice to ensure they are functioning well?
- Are you comfortable with the referral process to cancer physiatry/rehabilitation oncology?
- Are you aware of cancer rehabilitation options in the community?

