

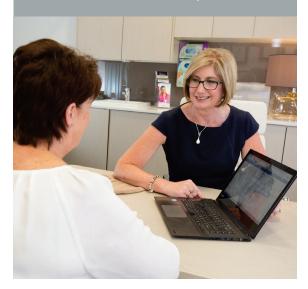




An Innovative Early Intervention Model of Care for Breast Cancer Survivors

ALERT EDUCATION

Three-hour workshop



Dear Certified Lymphedema Therapists,

Thank you for attending 'An Innovative Early-Intervention Model of Care for Breast Cancer Survivors' as part of the Klose Lymphedema Conference (2-4 May 2019, Denver, Colorado).

Overview

In this interactive theoretical and practical three-hour workshop, presented by Ms Louise Koelmeyer (Occupational Therapist and ALERT Program Manager), you will learn the key components of a prospective surveillance and early-intervention model of care in breast cancer rehabilitation. Evidence will be presented that challenges some of the myths in risk-minimisation education. You will learn about the importance of risk stratification and how bioimpedance spectroscopy (BIS) and compression therapy can be used to improve patient outcomes in an early-intervention cancer-rehabilitation program.

Workshop Objectives

- Recognise the practical application of a prospective surveillance and early-intervention model of care shown to reduce the risk of lymphedema and the severity of lymphedema during breast cancer rehabilitation.
- Identify how bioimpedance spectroscopy applies to a prospective surveillance model of care for lymphedema and cancer survivorship.

You are most welcome to participate in any ALERT education programs or visit us in Sydney if ever travelling down-under in the future. For any enquiries please contact us at <u>alerteducation@mq.edu.au</u>.

Kind regards, Louise Koelmeyer

Louise Koelmeyer

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Join our database via https://www.mqhealth.org.au/hospital-clinics/lymphoedema-clinic

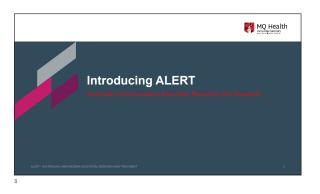
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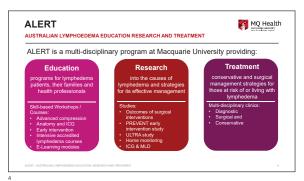
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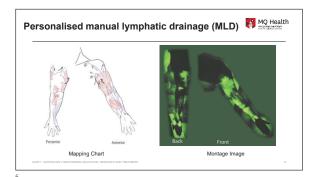




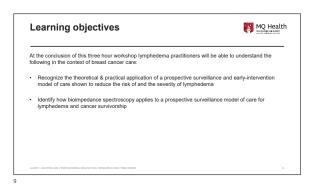


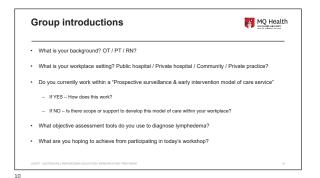




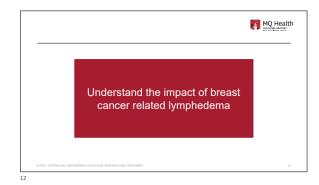


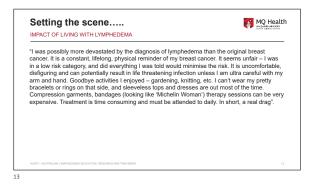


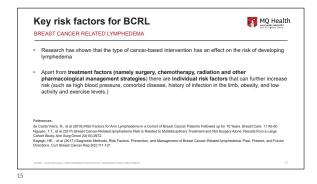


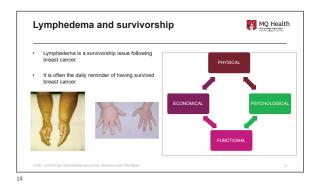


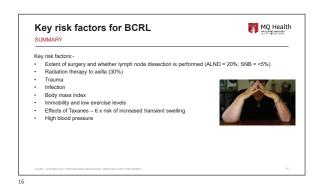


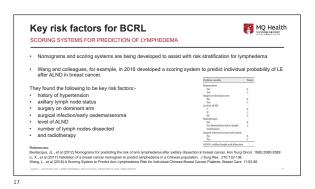


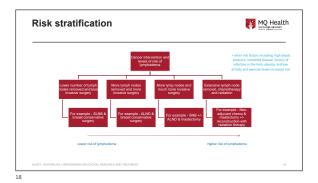




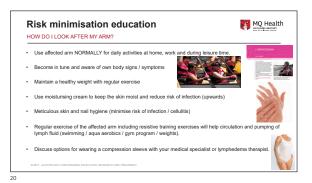


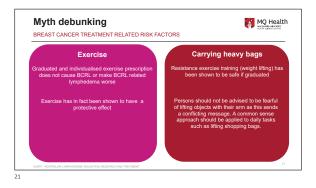




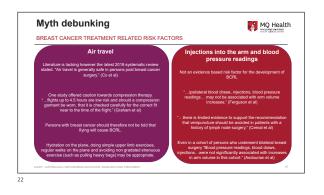


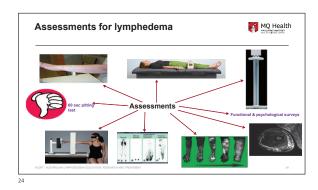


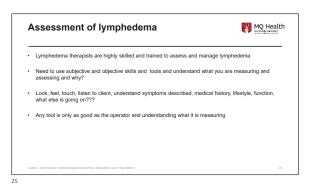


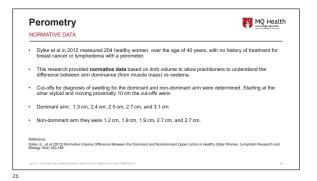


Stage	Description	Characteristics
0	Sub-clinical/Latent	Some damage to lymphatics however there is no visible oedema
1	Spontaneously reduces, acute phase	Pitting oedema that reduces with elevation of the arm. Usually, upc waking in the morning (except for head and neck lymphoedema), t limb(s) or affected area is normal or almost normal size.
2	Spontaneously irreversible, chronic phase	Spongy consistency and can be "pitting" or "non-pitting." Fibrosis and fatty changes are starting to occur/have occurred.
3	Elephantiasis; irreversible, end-stage	Irreversible tissue changes and usually the limb(s) is/are very large The tissue is hard (fibrotic) and fatty changes are present.

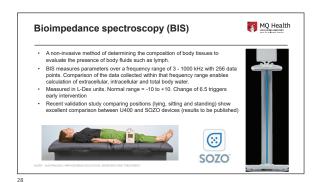


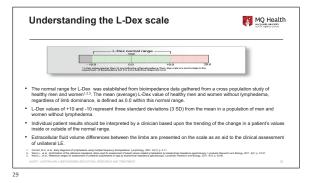


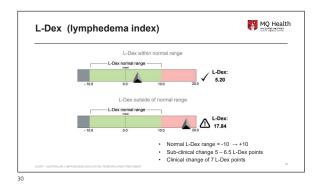


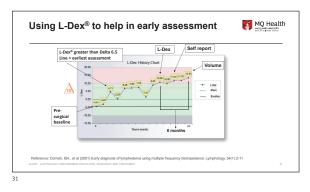


Increase in volume due to muscle gain	ECF	Muscle and Tissues	Fat	
Increase in volume due to weight gain	ECF	Muscle and Tissues	Fat increase	
Increase in volume due to lymphedema	ECF increas	e Muscle and Tissues	Fat	

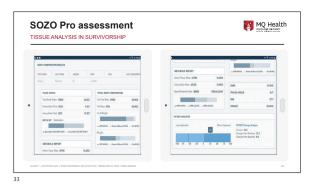


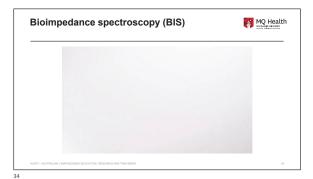






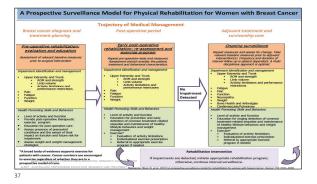


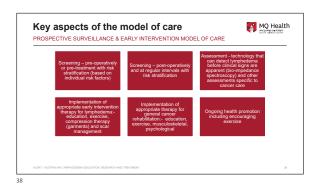


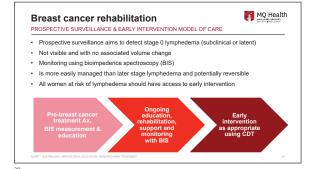














What is "Early Intervention" for a prospective surveillance and early intervention model of care program?







Author	Study Design	Year	Number	BCRL diagnostic	BCRL (early vs
				technique / intervention	late intervention)
Box	Randomised	2002	65	Circumference, BIS / early Physio	11% vs 30%
Torres Lacomba	Randomised	2010	120	Circumference / early Physio	7% vs 25%
Stout	Prospective	2011	196	Perometry / compression garment	25% subclinical and 6% Stage I-II
Soran	Prospective	2014	186	BIS, Physio, compression garment	33% subclinical, early intervention, 4% vs 36%
Koelmeyer	Retrospective	2019	188-early surveillance (ES); 285-traditional referral (TR)	Education, BIS, compression garment	4% ES vs 24% TR, Stage II-III
Ridner	Randomised	2018	280	BIS ≥7 / compression sleeve	L-Dex ≥7 units change = clinical

Clinical evidence supporting early

2016

2018

2018

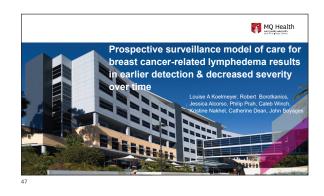
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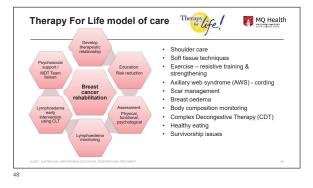
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intervention model of care

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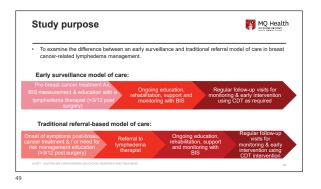
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34% had elevate BIS. After EI 6% chronic BCRL

3% developed chronic BCRL

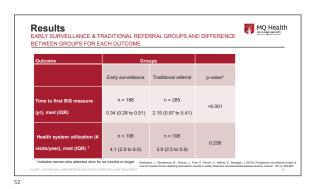
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Study design & flo	W usin	eened g BIS 753	MQ Health
	Early Surveillance Group n = 436	Traditional Referral Group n = 317	
No BIS measurement > 90 days = 227	Excluded n = 248*	Excluded n = 32	
** Pre-surgery <i>n</i> = 121 Within 90 days post-surgery <i>n</i> = 67	Analysed n = 188**	Analysed n = 285***	*** >90 days post-surgery n = 285

	ICO OF FAN	TICIPANTS		
Characteristic		Groups		
		Early Surveillance	Traditional referral	p-value
		n = 188	n = 285	
Age (yr), mean (SD)	55 (11)	54 (12)	56 (11)	<0.05
Arm at risk, right n (%)	216 (46)	84 (45)	132 (46)	0.727
Axillary nodes dissected, yes n (%)	301 (64)	121 (64)	180 (63)	0.790
Medical Intervention, n (%)		n = 186	n = 94	
Nil adjuvant	31 (11)	19 (10)	12 (13)	<0.001
RT only	47 (17)	34 (18)	13 (14)	
CT only (without taxane)	16 (6)	11 (6)	5 (5)	
CT only (with taxane)	25 (9)	22 (12)	3 (3)	
RT + CT (without taxane)	161 (58)	100 (53)	61 (65)	
RT + CT (with taxane)	95 (34)	73 (39)	21 (22)	

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TRADITIONAL REFERRAL				
Outcome	Grou	ips	p-value*	
	Early Surveillance n = 188	Traditional Referral n = 285		
Stage of lymphedema, n (%)				
Non-lymphedema	138 (76)	173 (61)	p<0.001	
Stage 0	19 (10)	3 (1)		
Stage 1	19 (10)	43 (15)		
Stage 2	8 (4)	53 (19)		
Stage 3	0 (0)	13 (5)		

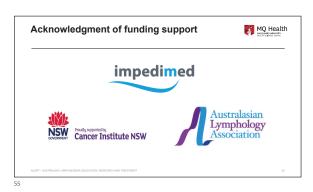
 Results support the use of bioimpedance spectroscopy (BIS) as part of an early prospective surveillance model of care that may result in earlier detection and earlier diagnosis of lymphedema as well as lower BIS values over time.

International clinical guidelines have urged that lymphedema surveillance and early intervention model of care (exercise, skin care, compression therapy, lymphatic drainage massage as required) be implemented routinely after breast cancer treatment.

Earlier detection of lymphedema may lead to lower health-care costs if it results in the effective management of symptoms and prevents progression to severe lymphedema.

Conclusions

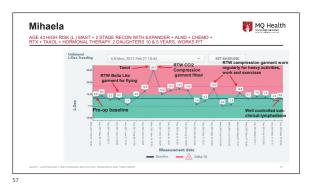
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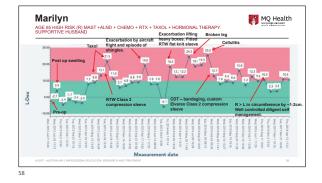




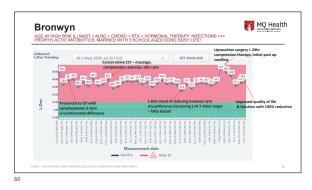


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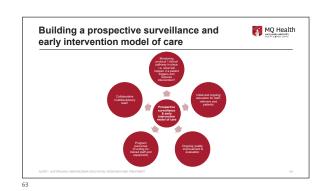




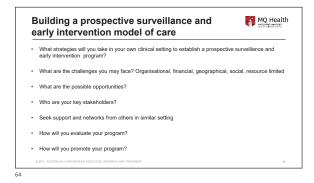












 Building a prospective surveillance and control of care

 Searcy intervention model of care

 • National Lymphediam Aktowick (NLN), USA

 • National Comprehensive Cancer Network, NCCA, USA

 • National Accreditation Program for Breast Centers (NAPBC), USA

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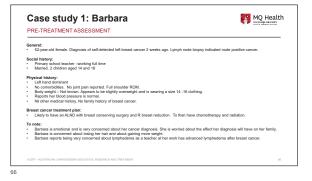
 • Surgeons

 • Breast care nurses

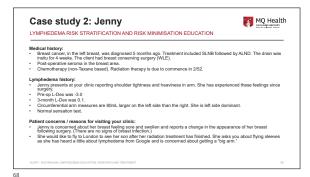
 • Multi-disciplinary teams

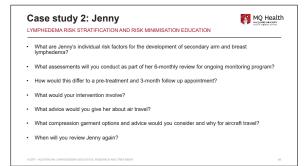
 • Develop proposal & partnership

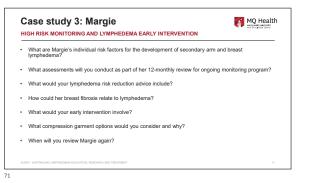
 • Build on education & knowledge



	Case study 1: Barbara MQ Health
	What are Barbara's individual risk factors for the development of secondary arm and breast lymphedema?
•	What assessments will you conduct as part of her pre-treatment appointment for ongoing monitoring program?
•	If Barbara was overweight, how does this impact her risk of lymphedema?
•	Is Barbara anticipated to gain weight during chemotherapy or lose weight?
•	If Barbara has a higher level of fat free mass when compared to her muscle mass, how may this affect her during treatment?
	When will you review Barbara again?







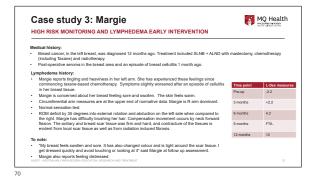
Case study 4: Building a prospective surveillance MO Health

What strategies will you take in your own clinical setting to establish a prospective surveillance and early intervention program?

What are the challenges you may face? (i.e. organisational, financial, geographical, social, resource

and early intervention model of care

Seek support and networks from others in similar setting
How will you evaluate your program?





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What are the possible opportunities?Who are your key stakeholders?

· How will you promote your program?

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Case Study 1: Pre-Treatment Assessment Case study: "Barbara"

General:

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52-year-old female. Diagnosis of self-detected left breast cancer 2 weeks ago. Lymph node biopsy indicated node positive cancer.

Social history:

Primary school teacher -working full time

Married. 2 children aged 14 and 18

Physical history:

Left hand dominant

No comorbidities. No joint pain reported. Full shoulder ROM.

Body weight - Not known. Appears to be slightly overweight and is wearing a size 14 -16 clothing.

Reports her blood pressure is normal.

Nil other medical history. No family history of breast cancer.

Breast cancer treatment plan:

Likely to have an ALND with breast conserving surgery and R breast reduction. To then have chemotherapy and radiation.

To note:

Barbara is emotional and is very concerned about her cancer diagnosis. She is worried about the effect her diagnosis will have on her family.

Barbara is concerned about losing her hair and about gaining more weight.

Barbara reports being very concerned about lymphedema as a teacher at her work has advanced lymphedema after breast cancer.

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Questions

What are Barbara's individual risk factors for the development of secondary arm and breast lymphedema?

Risk factor	Reason

What assessments will you conduct as part of her pre-treatment appointment for ongoing monitoring program?

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Is Barbara anticipated to gain weight during chemotherapy or lose weight?

If Barbara has a higher level of fat free mass when compared to her muscle mass, how may this affect her during treatment?

When will you review Barbara again?

If Barbara was overweight, how does this impact her risk of lymphedema?

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Case Study 2: Lymphedema Risk Stratification and Risk Minimisation Education 39

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Medical history:

Breast cancer, in the left breast, was diagnosed 5 months ago. Treatment included SLNB followed by ALND. The drain was insitu for 4 weeks. The client had breast conserving surgery (WLE).

Post-operative seroma in the breast area.

Chemotherapy (non-Taxane based). Radiation therapy is due to commence in 2/52.

Lymphedema history:

Jenny presents at your clinic reporting shoulder tightness and heaviness in arm. She has experienced these feelings since surgery.

Pre-op L-Dex was -3.0

3-month L-Dex was 0.1.

Circumferential arm measures are 80mL larger on the left side than the right. She is left side dominant.

Normal sensation test.

Patient concerns / reasons for visiting your clinic:

Jenny is concerned about her breast feeling sore and swollen and reports a change in the appearance of her breast following surgery. (There are no signs of breast infection.)

She would like to fly to London to see her son after her radiation treatment has finished. She asks you about flying sleeves as she has heard a little about lymphedema from Google and is concerned about getting a "big arm."



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What are Jenny's individual risk factors for the development of secondary arm and breast lymphedema?

Risk factor	Reason

What assessments will you conduct as part of her 6-monthly review for ongoing monitoring program?

How would this differ to a pre-treatment and 3-month follow up appointment?

What would your intervention involve?

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When will you review Jenny again?

What advice would you give her about air travel?

What compression garment options and advice would you consider and why for aircraft travel?



Case Study 3: Lymphedema Risk Stratification and Risk **Minimisation Education**

Case study: "Margie"	
Medical history:	
Breast cancer, in the left breast, was diagnosed 12 months ago. Treatment included SLNB + ALND with mastectomy, chemotherapy (including Taxane) and radiotherapy.	ı

Post-operative seroma in the breast area and an episode of breast cellulitis 1 month ago.

Lymphedema history:

Margie reports tingling and heaviness in her left arm. She has experienced these feelings since commencing taxane-based chemotherapy. Symptoms slightly worsened after an episode of cellulitis in her breast tissue. Margie is concerned about her breast feeling sore and swollen. The skin feels warm.

Time point	L-Dex measures
Pre-op	-2.2
3 months	+2.2
6 months	4.2

FTA.

Circumferential arm measures are at the upper end of normative data. Margie is R arm dominant.

9 months

12 months

Normal sensation test.

ROM deficit by 35 degrees into external rotation and abduction on the left side when compared to the right. Margie has difficulty brushing her hair. Compensation movement occurs by neck forward flexion. The axillary and breast scar tissue was firm and hard, and contracture of the tissues is evident from local scar tissue as well as from radiation induced fibrosis.

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To note:

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"My breast feels swollen and sore. It has also changed colour and is tight around the scar tissue. I get dressed quickly and avoid touching or looking at it" said Margie at her follow up assessment.

Margie also reports feeling distressed.

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What would your early intervention involve?

What compression garment options would you consider and why?

When will you review Margie again?

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What are Margie's individual risk factors for the development of secondary arm and breast lymphedema?

sk factor	Reason
What assessments will you conduct as part of her 12-monthly review for ongoing monitoring program?	
What would your lymphedema risk reduction advice include?	
How could her breast fibrosis relate to lymphedema?	
w could her breast fibrosis relate to lymphedema?	

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Case Study 4: Building a prospective surveillance and early intervention model of care

What strategies will you take in your own clinical setting to establish a prospective surveillance and early intervention program?
What are the challenges you may face? (i.e. organisational, financial, geographical, social, resource
limited)

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An Innovative Early-Intervention Model of Care for Breast Cancer Survivors Workshop

Klose Lymphedema Conference (2-4 May 2019, Denver, Colorado)

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What are the possible opportunities?

Who are your key stakeholders?

Seek support and networks from others in similar setting

How will you evaluate your program?

How will you promote your program?

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Feedback form for 'An Innovative Early-Intervention Model of Care' workshop at the Klose Lymphoedema Conference 2019.

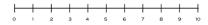
Name (optional) (Denver, CO) 2 May 2019

Thank you for your attendance at ALERT Education's 'An Innovative Early-Intervention Model of Care' workshop as part of the Klose Lymphoedema Conference 2019. We value your feedback and continually strive to improve our education program.

If you would like to join our database to keep up to date with ALERT's research and educational workshops please provide your name (above) and email. Email address:

 Please provide an overall rating for the learning experience of this workshop (0 = poor learning experience, 10 = excellent learning experience).

2/ Please rate your level of understanding of 'An early-intervention model of care in breast cancer' currently from 0-10 (0= poor, 10 = excellent)



3/ Do you feel that this workshop met the anticipated learning outcomes? (0 = not at all, 10 = absolutely) The learning objectives are below:

Recognize the practical application of a prospective surveillance and early-intervention model of care shown to reduce the risk of lymphedema and the severity of lymphedema during breast cancer rehabilitation. Identify how bioimpedance spectroscopy applies to a prospective surveillance model of care for lymphedema and





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4a/ Prior to this workshop what percentage of patients did you feel were appropriate for RTW vs custom made garments in an early intervention setting?

% ----- RTW %----- Custom Made

4b/ Having completed this workshop what percentage of patients do you feel are appropriate for RTW vs custom made garments in an early intervention setting?

%----- Custom Made

5a/ Prior to this workshop how likely were you to utilise bioimpedance spectroscopy in an early intervention setting? (0= see no value in utilisation, 10= 100% value in utilisation)



5b/ Having completed this workshop how likely are you to utilise bioimpedance spectroscopy in an early intervention setting? (0= see no value in utilisation, 10= 100% value in utilisation)



6/ How could the workshop be improved/any other feedback?_____

7/ We would appreciate feedback that could be used for marketing purposes on the Macquarie University webpage. If you consent for us to publish your name and profession, please write some feedback below that could be presented as a testimonial

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