Breast Project Data Elements DEMOGRAPHICS Data Elements Options First/Last 1. Provider 2. Date of initial Radiation/Oncology consult mm/dd/yyyy 3. Date of Birth mm/yyyy 4. Gender (Select only one) Male/Female 5. Race (Select only one) American Indian/Alaska Native Asian Native Hawaiian or Other Pacific Islander Black or African American White Arab/Middle Eastern Unknown or not reported Other (free text) 6. Medical Insurance (Check all that apply) No insurance/self-pay Medicare(all) Medicare Advantage-BCN Medicare Advantage- BCBSM Medicaid-Straight Medicaid -HMO Other Payer (government)

Other Payer (Michigan and outstate)

BCBSM-Michigan BCN- Michigan Commercial-HMO



7. Current Marital Status (Select only one)	 Married/ Domestic Partner Divorced Never Married Separated Widowed Living with someone Single
8. Cancer Type (Select only one)	Breast CancerLung Cancer

B1: Patient: Pre-Treatment Breast Cancer Questionnaire

Time points: Pre RT Evaluation

Data Elements	Options
Please rate your breast pain	
Please rate your breast pain by circling the one number that best describes your breast pain at its worst in the last 24 hours.	
Please rate your breast pain by circling the one number that best describes your breast pain at its least in the last 24 hours	0 (No pain)
Please rate your breast pain by circling the one number that best describes your breast pain on the average in the last 24 hours	To 10 (Pain as bad as you can imagine)
Please rate your breast pain by circling the one number that tells how much breast pain you have right now	



Are you using any treatments or medications for the breast to be treated with radiation (lotions, creams, medicine etc.)?	• YES/NO	
If Yes, what treatments are you using? (Check all that apply)	I ● Blatene	ds used on as cortisone cream)) treatments used on the lication
Please rate the following items on this four-		
	a. Breast size	
point scale, according to your evaluation at	b. Breast texture (hardening)	
this point in time:	c. Arm heaviness	
	d. Nipple appearance	None
	e. Shoulder movement	Cliabt
	f. Arm movement	Slight
	g. Breast pain h. Ability to lift objects	Moderate
	i. Fit of shirt sleeve	Lawas
	j. Breast tenderness	Large
	k. Shoulder stiffness	
	I. Breast shape	
	m. Breast elevation (how high t	he breast is)
	n. Scar tissue	
	o. Shoulder pain	
	p. Arm pain q. Arm swelling	
	q. Arm swelling r. Breast swelling	
	s. Arm stiffness	
	t. Fit of bra	
	u. Breast sensitivity	
	v. Fit of clothing	



Think specifically about the past 30 days up to and including today. What is your best estimate of the number of days you used Cannabis during the past 30 days?	 Prefer not to answer No – Yes O days - Proceed to question 6 1 or 2 days 3 to 5 days 6 to 9 days 10 to 19 days 20 to 29 days All 30 days
During the past 30 days, which one of the following ways did you use cannabis most often? Did you usually:	 Smoke it (for example, in a joint, bong, pipe, or blunt) Eat it (for example, in brownies, cakes, cookies, or candy) Drink it (for example, in tea, cola, or alcohol) Vaporize it (for example, in an e-cigarette-like vaporizer or another vaporizing device) Dab it (for example, using waxes or concentrates) Apply to skin (for example, using lotions or oils) Administer rectally (for example, using suppositories). Use it some other way (please specify:
What is the major active ingredient in the cannabis product that you use the most? (This information can often be found on the package label.)	 THC –also called tetrahydrocannabinol CBD –also called cannabidiol Balanced levels of THC and CBD I don't know Other



What was your bra size before surgery (please answer both number and letter, i.e.36C)?	 30 or smaller 32 B 34 C 36 D 38 DD 40 Larger than DD 42 44 46 or larger
What is the highest level of education you have completed?	 Grade School or less Some College or Technical School Some High School Associate's Degree High School Graduate or G.E.D. College Graduate (Bachelor's Degree) Graduate Degree
Which of the following best describes your race?	 American Indian/Alaska Native Asian Native Hawaiian or other Pacific Islander Black or African American White Arab/Middle Eastern Other (please specify)
Are you of Hispanic/Latino origin?	YES/NO
Which of the following are you currently taking/receiving?	 Tamoxifen Any other hormonal/endocrine/anti-hormonal therapy Chemotherapy Herceptin/Trastuzumab None/nothing



B2:Patient: Weekly Breas	t Cancer Treatment Questionnaire
	Time points: Weekly On-Treatment Visits
Data Elements	Options
Please rate your breast pain Please rate your breast pain by circling the one number that best describes your breast pain at its worst in the last 24 hours. Please rate your breast pain by circling the one number that best describes your breast pain at its least in the last 24 hours	
Please rate your breast pain by circling the one number that best describes your breast pain on the average in the last 24 hours Please rate your breast pain by circling the one number that tells how much breast pain you have right now	0 (No pain) To 10 (Pain as bad as you can imagine)
Are you using any treatments or medications for the breast to be treated with radiation (lotions, creams medicine etc.)? If Yes, what treatments are you using? (Check all that apply)	1
During the past week, how often have you been bothered by?	
Itching of the skin of your treated breast	



Burning or stinging of the skin of your treated breast Your treated breast hurting Swelling of your treated breast Your skin reaction to radiation making it hard to work or do what you enjoy	 Never Rarely Sometimes Often All the Time
In general, during the past four weeks, how often did you: Feel significant fatigue?	 Always Most of the time Sometimes Rarely Never

B3: Breast Cancer Treatment Questionnaire: End of Treatment

Time points: Last week of treatment

Data Elements	Options
Please rate your breast pain	
Please rate your breast pain by circling the one number that best describes your breast pain at its worst in the last 24 hours. Please rate your breast pain by circling the one	O (No pain)
number that best describes your breast pain at its least in the last 24 hours	0 (No pain) To 10 (Pain as bad as you can imagine)
Please rate your breast pain by circling the one number that best describes your breast pain on the average in the last 24 hours	
Please rate your breast pain by circling the one number that tells how much breast pain you have right now	
Are you using any treatments or medications for the breast to be treated with radiation (lotions, creams, medicine etc.)?	YES/NO
If Yes, what treatments are you using? (Check all that apply)	Calendula



	 Aquaphor Alra Cocoa butter Miaderm Corticosteroids used on the skin (such as cortisone cream Aloe vera gel Corn the skin(specify): Hydrogel Oral pain medication (specify): Oral antibiotic Other oral agent (specify):
During the past week, how often have you been bothered by?	
Itching of the skin of your treated breast	
Burning or stinging of the skin of your treated breast	Never
Your treated breast hurting	Rarely
Swelling of your treated breast	Sometimes Officer
Your skin reaction to radiation making it hard to work or do what you enjoy	Often All the Time
In general, during the past four weeks, how often did you	
Feel that your radiation therapy limited your daily activities?	
Feel bothered by the side effects of your radiation treatment?	AlwaysMost of the time
Feel upset about the side effects of your radiation therapy?	• Sometimes
Feel that your radiation therapy was worth doing even with the side effects?	Rarely Never
Think about stopping your radiation therapy?	
Feel significant fatigue?	



Please rate the following items on this four-point			
	a.	Breast size	
scale, according to your evaluation at this point in	b.	Breast texture (hardening	ng)
time:		Arm heaviness	.
	d.	Nipple appearance	None
		Shoulder movement	None
		Arm movement	Slight
		Breast pain	
	_	Ability to lift objects	Moderate
		Fit of shirt sleeve	
		Breast tenderness	Large
	,	Shoulder stiffness	
		Breast shape	
		Breast elevation (how hi	igh the hreast is \
		Scar tissue	ight the breast is;
		Shoulder pain	
		Arm pain	
	-	Arm swelling	
		Breast swelling	
		Arm stiffness	
		Fit of bra	
		Breast sensitivity	
		Fit of clothing	
		Very inconvenient	
		Inconvenient	
Overall, my radiation therapy treatments have been		Neither convenient nor i	nconvenient
		Convenient	
	• '	Very convenient	
	• '	Very bothered	
Overall, how bothered have you been by the amount	•	Quite bothered	
of time it took to have your radiation therapy	•	Moderately bothered	
treatments?	• ,	A little bothered	
	•	Not bothered at all	
		NAME IN A STATE OF THE STATE OF	-4 - 4
		Much better than I expe	
Overall, are the side effects of radiation therapy as you		Somewhat better than I	expected
expected?		Exactly as I expected	
		Somewhat worse than I	•
	•	Much worse than I exped	cted
	• ,	Very satisfied	
Overall, how satisfied are you with your radiation		Satisfied	
therapy treatment?		Neither satisfied nor diss	satisfied
and approximation		Dissatisfied	Jacistica
	_	Dissatisfied	



	Very Dissatisfied
Have any of your radiation oncology providers ever asked if you use cannabis? If the only mention of cannabis that you recall is from a survey form, then the answer is "No".	• Yes/No
Have you been satisfied with your radiation oncology providers' ability to answer questions about cannabis?	I have not asked any questions about cannabisNoYes
Have you used cannabis, even once, since the first treatment in your course of radiation?	Prefer not to answerNoYes
If you use cannabis, please check ALL of the reason(s) that you have chosen to do so.	 For pain For nausea For anxiety For depression For poor appetite For trouble sleeping For the high (recreational) To fight Cancer Other:
Taking everything into consideration, if given the choice again, would you decide to have radiation therapy?	 Yes, definitely Probably yes I don't know Probably not Definitely not
B4: Patient: Breast Cancer	Follow-Up Questionnaire

B4: Patient: Breast Cancer Follow-Up Questionnaire

Time points: Follow-up visits 2 weeks-3 months

Data Elements	Options
Please rate your breast pain	·
Please rate your breast pain by circling the one number that best describes your breast pain at its worst in the last 24 hours.	
Please rate your breast pain by circling the one number that best describes your breast pain at its least in the last 24 hours	0 (No pain) To 10 (Pain as bad as you can imagine)
Please rate your breast pain by circling the one number that best describes your breast pain on the average in the last 24 hours	



Please rate your breast pain by circling the one number that tells how much breast pain you have right now Are you using any treatments or medications for the breast to be treated with radiation (lotions, creams, medicine etc.)? If Yes, what treatments are you using? (Check all that apply)	 YES/NO Domeboro solution Eucerin Cocoa butter Corticosteroids used on the skin (such as cortisone cream) Biafene Silvadene Aloe vera gel Corn starch Hydrogel Domeboro solution Eucerin Cocoa butter Corticosteroids used on the skin (such as cortisone cream) Other (agents) treatments used on the skin(specify): Oral pain medication (specify): Oral antibiotic Other oral agent (specify):
During the past week, how often have you been bothered by?	
Itching of the skin of your treated breast	Never
Burning or stinging of the skin of your treated breast	Rarely
Your treated breast hurting	• Sometimes
Swelling of your treated breast	Often
Your skin reaction to radiation making it hard to work or do what you enjoy	All the Time
Differences between treated and untreated breast:	
Please rate the following items on this four-point scale, according to your evaluation at this point in time: Breast size	
Breast texture (hardening)	
Arm heaviness	
Nipple appearance	



Shoulder movement	
Arm movement	
Breast pain	
Ability to lift objects	
Fit of shirt sleeve	
Breast tenderness	
Shoulder stiffness	None
Breast shape	Slight
Breast elevation (how high the breast is)	Moderate
Scar tissue	Large
Shoulder pain	
Arm pain	
Arm swelling	
Breast swelling	
Arm stiffness	
Fit of bra	
Breast sensitivity	
Fit of clothing	
Overall, how satisfied are you with your radiation therapy treatment?	 Very satisfied Satisfied Neither satisfied nor dissatisfied Dissatisfied Very Dissatisfied
Taking everything into consideration, if given the choice again, would you decide to have radiation therapy?	 Yes, definitely Probably yes I don't know Probably not Definitely not
In general, during the past four weeks, how often did you feel significant fatigue?	 Always Most of the time Sometimes Rarely Never



Has hormonal/endocrine/anti-hormonal therapy been prescribed for you?	 Yes No I chose not to take hormonal/endocrine/anti-hormonal therapy
If Yes, what has been prescribed for you:	 Tamoxifen Aromatase Inhibitors Other, Specify:
If Yes, are you still taking the hormonal/endocrine/anti-hormonal therapy?	YesNo
B5: Breast Cancer B	aseline Clinical Data
Til	me points: Last week of treatment & Follow-up visit 3 months
Data Elements	Options
Weight (specify lbs or kg):	
BMI OR Height (specify inches or cm): *If you do not have access to the height and weight, please ask the patient.	
Breast Cancer / Pre-treatment Characteristics	
Tumor Stage: a. Pathologic stage: A value for each (T-N-M) is required. If the physician has left N and M blank, you must verify with the physician if the answer is unknown(X) or negative (0).	• T • N • M



Histology	 DCIS Invasive ductal carcinoma (predominant) Invasive lobular carcinoma (predominant) Other (specify):
Tumor Grade	 Grade 1: well differentiated Grade 2: moderately differentiated Grade 3: poorly differentiated Not Specified
ER Status	PosNegUnknown
PR Status	PosNegUnknown
Her2Neu	PosNegUnknown
Method of determining Her2Neu	 FISH/DISH IHC Both N/A Unknown
Date of last lumpectomy or excisional biopsy	mm/dd/yyyy
Margin Status	• Pos



If close, how many mm from margin?	NegClose
Axillary surgery (check all that apply)	 None Axillary lymph node dissection Sampling Sentinel node bx Other (Specify):
Number of total lymph nodes taken	
Number of total lymph nodes positive	
Iymphovenous bypass: Procedure date(mm/dd/yyyy)	PerformedNot Done
Current smoker?	YesNoUnknown
Former smoker? (quit at least one month prior to diagnosis)	YesNoUnknown
Was this patient counseled by a doctor or other healthcare worker about quitting cigarettes? (applies to current smokers only)	YesNo
Comorbidities: Does the patient have?	
Hypertension Diabetes mellitus Scleroderma Rheumatoid Arthritis Lupus Cerebrovascular disease Chronic pulmonary disease	YesNo



-
Congestive heart failure
Connective tissue disease
Confusion
Hemiplegia
Leukemia
Malignant lymphoma
Myocardial infarction
Peripheral vascular disease
Ulcer disease
Liver disease
Renal disease
Malignant solid tumor (other than breast)

B6: Breast Systemic Therapy Data

Time points: Last week of treatment & Follow-up visit 3 months

Data Elements	Options		
Did the patient receive systemic therapy?	YesNo		
If yes, how was systemic therapy administered (check all that apply)?			
Neo adjuvant therapy (prior to breast-conserving surgery (BCS)) Agents Administered (check all that apply):	 Adriamycin/Doxorubicin Cyclophosphamide/Cytoxan Paclitaxel/Taxol Docetaxel/Taxotere Methotrexate/Trexall 5-fluorouracil/ 5-FU Trastuzumab/Herceptin Other (specify) 		
Concurrently with Radiation Therapy Agents Administered (check all that apply):	 Adriamycin/Doxorubicin Cyclophosphamide/Cytoxan Paclitaxel/Taxol Docetaxel/Taxotere Methotrexate/Trexall 5-fluorouracil/5-FU Trastuzumab/Herceptin Other (specify) 		
Adjuvant therapy (after BCS) Agents Administered (check all that apply):	 Adriamycin/Doxorubicin Cyclophosphamide/Cytoxan Paclitaxel/Taxol Docetaxel/Taxotere Methotrexate/Trexall 5-fluorouracil/5-FU Trastuzumab/Herceptin 		



	Other (specify)
Concurrently with Radiation Therapy Agents Administered (check all that apply):	 Adriamycin/Doxorubicin Cyclophosphamide/Cytoxan Paclitaxel/Taxol Docetaxel/Taxotere Methotrexate/Trexall 5-fluorouracil/5-FU Trastuzumab/Herceptin Other (specify)
Has hormonal therapy been prescribed?	 Yes No Patient chose to opt out of hormonal therapy
If Yes, Agents Administered:	TamoxifenAromatase InhibitorsOther, Specify:

B7: Physician: Toxicity Evaluation First Week of Treatment

Time points: Weekly On-Treatment Visits

Toxicity Scoring (CTCAE v 4.0)

	Grade					
Adverse Event	0	1	2	3	4	5
			Brea	st		
Breast pain	none	Mild pain	Moderate pain; limiting instrumental ADL	Severe pain; limiting self-care ADL		
Lymphedema of breast	none	Trace thickening or faint discoloration	Marked discoloration; leathery skin texture; papillary formation; limiting instrumental ADL	Severe symptoms; limiting self-care ADL		
			Skin Disc	orders		•
Radiation dermatitis	none	Faint erythema or dry desquamatio n	Moderate to brisk erythema; patchy moist desquamation, mostly confined to skin folds and creases; moderate edema	Moist desquamation in areas other than skin folds and creases; bleeding induced by minor trauma or abrasion	Life-threatening consequences; skin necrosis or ulceration of full thickness dermis; spontaneous bleeding from involved site; skin graft indicated	Death
Pruritus	none	Mild or localized; topical intervention indicated	Intense or widespread; intermittent; skin changes from scratching (e.g., edema, population, excoriations, lichenification, oozing/crusts); oral intervention indicated; limiting instrumental ADL	Intense or widespread; constant; limiting self-care ADL or sleep; oral corticosteroid or immunosuppressive therapy indicated		
Skin induration	none	Mild induration, able to move skin parallel to plane (sliding) and perpendicula r to skin (pinching up).	Moderate induration, able to slide skin, unable to pinch skin; limiting instrumental to ADL	Severe induration, unable to slide or pinch skin; limiting joint movement or orifice (e.g., mouth, anus); limiting selfcare ADL	Generalized; associated with signs or symptoms or impaired breathing or feeding	Death



		KTION —	Musculoskeletal and conn			
Chest wall		Mild pain	Moderate pain; limiting	Severe pain; limiting self-care ADL		
pain	none		instrumental ADL	gen en e		
			Cardiac di			
Pericarditis	none	Asymptomat ic, ECG or physical findings (e.g., rub) consistent with pericarditis	Symptomatic pericarditis (e.g., chest pain)	Pericarditis with physiologic consequences (e.g., pericardial constriction)	Life-threatening consequences; urgent intervention indicated	Death
Pericardial effusion	none		Asymptomatic effusion size small to moderate	Effusion with physiologic consequences	Life-threatening consequences; urgent intervention indicated	Death
			Respiratory, thoracic and			1
Dyspnea	none	Shortness of breath with moderate exertion	Shortness of breath with minimal exertion; limiting instrumental ADL	Shortness of breath at rest; limiting self-care ADL	Life-threatening consequences; urgent intervention indicated	Death
Pleuritic pain	none	Mild pain	Moderate pain; limiting instrumental ADL	Severe pain; limiting self-careADL		
Pneumonitis	none	Asymptomat ic; clinical or diagnostic observations only; intervention not indicated	Symptomatic; medical intervention indicated; limiting instrumental ADL	Severe symptoms; limiting self-care ADL; oxygen indicated	Life-threatening respiratory compromise; urgent intervention indicated (e.g., tracheotomy or intubation)	Death
			General di			
Fatigue	none	Fatigue relieved by rest	Fatigue not relieved by rest; limiting instrumental ADL	Fatigue not relieved by rest, limiting self-care ADL		
ECOG Performa	nce Stati	ıs**				
*As published in Am. J. Clin. Oncol.: Oken, M.M., Creech, R.H., Tormey, D.C., Horton, J., Davis, T.E., McFadden, E.T., Carbone, P.P.: Toxicity And Response Criteria Of The Eastern Cooperative Oncology Group. Am J Clin Oncol 5:649-655, 1982.	Fully active	Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature,e.g., light housework, office work		Capable of only limited self-care, confined to bed or chair more than 50% of waking hours	Completely disabled. Cannot carry on any self-care. Totally confined to bed or chair	Dead
		of the first f				
of 0-10	me pa	ueni s curren	it breast pain on a scale			
Please characterize the extent of any breast erythema at present			of any breast erythema at	NoneMildModerateSevere		



Characterize the severity of any breast hyperpigmentation at present	NoneMildModerateSevere
Characterize the severity of any breast hypopigmentation at present Is this patient enrolled on any breast cancer clinical	 None Mild Moderate Severe Yes
a. Does this study (these studies) influence your radiation dose/treatment plan, or expected toxicity for this patient?	NoYesNo
For patients meeting the 2018 ASTRO AWBI guidelines who are NOT receiving AWBI, please record the reason (Please check all that apply)	 N/A-patient does not meet the guideline Patient age < 40 Patient enrolled in a clinical trial that specifies no use of hypo fractionation Patient preference/choice Patient received or receiving chemotherapy Physician preference/choice Triple negative disease (TNBC) Other, please specify: N/A-patient received AWBI
Is the patient receiving regional nodal irradiation?	• Yes No
a. If YES , please complete the edema measurements and toxicity scoring.	Arm circumference LEFT arm, 10 cm ABOVE olecranon: Arm circumference LEFT arm, 10 cm BELOW olecranon: —————



Arm circumference RIGHT arm, 10 cm ABOVE olecranon:
Arm circumference RIGHT arm, 10 cm BELOW olecranon:

			Grade			
Adverse Event	0	1	2	3	4	5
Breast						
Edema limbs	none	5 - 10% inter-limb discrepancy in volume or circumference at point of greatest visible difference; swelling or obscuration of anatomic architecture on close inspection	>10 - 30% inter-limb discrepancy in volume or circumference at point of greatest visible difference; readily apparent obscuration of anatomic architecture; obliteration of skin folds; readily apparent deviation from normal anatomic contour;	>30% inter-limb discrepancy in volume; gross deviation from normal anatomic contour; limiting <u>self_care</u> ADL		
Musculoskeletal and		a tierua disardare	limiting instrumental ADL			
			T	T	T	
Joint range of motion decreased	none	<=25% loss of ROM (range of motion); decreased ROM limiting athletic activity	>25 - 50% decrease in <u>ROM;</u> limiting instrumental ADL	>50% decrease in ROM; limiting self care ADL; disabling		
Fibrosis deep connective tissue/ Superficial soft tissue fibrosis	none	Mild induration, able to move skin parallel to plane (sliding) and perpendicular to skin (pinching up)	Moderate induration, able to slide skin, unable to pinch skin; limiting instrumental ADL	Severe induration; unable to slide or pinch skin; limiting joint or orifice movement (e.g. mouth, anus); limiting self.care ADL	Generalized; associated with signs or symptoms of impaired breathing or feeding	Death
Nervous system disor	ders					
Brachial plexopathy	none	Asymptomatic; clinical or diagnostic observations only; intervention not	Moderate symptoms; limiting instrumental ADL	Severe symptoms; limiting <u>self.</u> <u>care</u> ADL		
		intervention not indicated				

B8: Physician: Toxicity Evaluation First We	ek of Treatment
	Time points: Weekly On-Treatment Visits
Complete each week during treatment (Excluding first and last week)	
Toxicity Scoring (CTCAE 4.0)	



			Grade			
Adverse Event	0	1	2	3	4	5
Breast	<u>.</u> .			I		T
Breast pain	None	Mild pain	Moderate pain; limiting instrumental ADL	Severe pain; limiting self-care ADL		
Lymphede ma of breast	None	Trace thickening or faint discoloration	Marked discoloration; leathery skin texture; papillary formation; limiting instrumental ADL	Severe symptoms; limiting self-care ADL		
Skin Disorder	\$					
Radiation dermatitis	None	Faint erythema or dry desquamation	Moderate to brisk erythema; patchy moist desquamation, mostly confined to skin folds and creases; moderate edema	Moist desquamation in areas other than skin folds and creases; bleeding induced by minor trauma or abrasion	Life-threatening consequences; skin necrosis or ulceration of full thickness dermis; spontaneous bleeding from involved site; skin graft indicated	Death
Pruritus	None	Mild or localized; topical intervention indicated	Intense or widespread; intermittent; skin changes from scratching (e.g., edema, population, excoriations, lichenification, oozing/crusts); oral intervention indicated; limiting instrumental ADL	Intense or widespread; constant; limiting self-care ADL or sleep; oral corticosteroid or immunosuppressive therapy indicated		
Musculoskele	tal and co	onnective tissue disc	rders			
Chest wall pain	None	Mild pain	Moderate pain; limiting instrumental ADL	Severe pain; limiting self-care ADL		
General Disor	ders					
Fatigue	None	Fatigue relieved by rest	Fatigue not relieved by rest; limiting instrumental ADL	Fatigue not relieved by rest; limiting self- care ADL		
ECOG Perforn	nance Sta	tus*				
*As published in Am. J. Clin. Oncol.: Oken, M.M., Creech, R.H., Tormey, D.C., Horton, I., Davis, T.E., McFadden, E.T., Carbone, P.P.: Toxicity And Response Criteria Of The Eastern Cooperative Oncology Group. Am J Clin Oncol 5:649-655, 1982.	Fully active	Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature,e.g., light housework, office work	Ambulatory and capable of all self- care but unable to carry out any work activities. Up and about more than 50% of waking hours	Capable of only limited self-care, confined to bed or chair more than 50% of waking hours	Completely disabled. Cannot carry on any self-care. Totally confined to bed or chair	Dead
Does the p	oatient	have MOIST de	esquamation?	YesNo		
Does the p	oatient	have DRY desq	uamation?	YesNo		



Characterize the severity of any breast hyperpigmentation at present	NoneMildModerateSevere
Characterize the severity of any breast hypopigmentation at present	 None Mild Moderate Severe

B9: Breast Cancer Outcomes: Last Week of Treatment

Time points: Last week of treatment

Data Elements	Options
Patient's Status:	
Rate patient's current breast pain on a scale of 0-1	
Does the patient have MOIST desquamation?	YesNo
Does the patient have DRY desquamation?	YesNo
Characterize extent of breast erythema at present	NoneMildModerateSevere
Characterize the severity of any breast hyperpigmentation at present	NoneMildModerateSevere
Characterize the severity of any breast hypopigmentation at present	NoneMildModerateSevere
Please select all treatments recommended for management of acute reaction to RT within the past month:	 None Calendula Aquaphor Alra Miaderm Biafene Silvadene Corn starch Hydrogel



Skin Disorders

MROOC Breast Data Elements Guide

			ode breast bata En		Garac		
		1.5		•	Domeboro solution Eucerin Cocoa butter Topical corticosteroid Other topical agent (s Oral anti-inflammator (specify): Oral antibiotic Other oral agent (specify): Other intervention (specify):	pecify): y or analgesic medic cify):	cation
How was the	boost vol	ume defined?		•	No boost given Volume defined by Ul Volume defined clinic Volume defined on CT Other, please specify:	ally on set	
		e boost volume on: (check all tha	, the tumor bed at apply)	•	N/A Surgical clips Surgical changes Surgical clips and surg Scar Other please specify	rical changes	
What was the	e date of t	he last fraction				- 	
Did any brea	k in treatm	nent occur?			Yes		
Did arry brear	XIII CICatii	ient occur:		•	No		
If Yes, was i				•	Yes No		
Was the toxio	city-relate	d treatment bre	eak >5 days?	•	Yes No		
Toxicity Scor	ing (CTCA	E v 4.0)					
			G	Grade			
Adverse Event	0	1	2		3	4	5
Breast							
Breast pain	none	Mild pain	Moderate pain; limiting instrumental ADL		Severe pain; limiting self- care ADL		
Lymphedema of breast	none	Trace thickening or faint discoloration	Marked discoloration; lesskin texture; papillary for limiting instrumental AD	rmation;	Severe symptoms; limiting self-care ADL		



QUALITI	CONSORTIUN	1 IVIK	OQC Breast Data Elements (Guiue		
Radiation		Faint erythema	Moderate to brisk erythema;	Moist desquamation in	Life-threatening	Death
dermatitis	none	or dry desquamation	patchy moist desquamation, mostly confined to skin folds and creases; moderate edema	areas other than skin folds and creases; bleeding induced by minor trauma or abrasion	consequences; skin necrosis or ulceration of full thickness dermis; spontaneous bleeding from involved site; skin graft indicated	
Pruritus	none	Mild or localized; topical intervention indicated	Intense or widespread; intermittent; skin changes from scratching (e.g., edema, population, excoriations, lichenification, oozing/crusts); oral intervention indicated; limiting instrumental ADL	Intense or widespread; constant; limiting self-care ADL or sleep; oral corticosteroid or immunosuppressive therapy indicated	graft mulcated	
Skin induration	none	Mild induration, able to move skin parallel to plane (sliding) and perpendicular to skin (pinching up).	Moderate induration, able to slide skin, unable to pinch skin; limiting instrumental to ADL	Severe induration, unable to slide or pinch skin; limiting joint movement or orifice (e.g., mouth, anus); limiting self-care ADL	Generalized; associated with signs or symptoms or impaired breathing or feeding	Death
Musculoskeletal	and connectiv	e tissue disorders				ı
Chest wall pain	none	Mild pain	Moderate pain; limiting instrumental ADL	Severe pain; limiting self- care ADL		
Cardiac disorders		I				ı
Pericarditis	none	Asymptomatic, ECG or physical findings (e.g., rub) consistent with pericarditis	Symptomatic pericarditis (e.g., chest pain)	Pericarditis with physiologic consequences (e.g., pericardial constriction)	Life-threatening consequences; urgent intervention indicated	Death
Pericardial effusion	none		Asymptomatic effusion size small to moderate	Effusion with physiologic consequences	Life-threatening consequences; urgent intervention indicated	Death
Respiratory, thor	acic and medi	astinal disorders				
Dyspnea	none	Shortness of breath with moderate exertion	Shortness of breath with minimal exertion; limiting instrumental ADL	Shortness of breath at rest; limiting self-care ADL	Life-threatening consequences; urgent intervention indicated	Death
Pleuritic pain	none		Moderate pain; limiting instrumental ADL	Severe pain; limiting self care ADL		
Pneumonitis	none	Asymptomatic; clinical or diagnostic observations only; intervention not indicated	Symptomatic; medical intervention indicated; limiting instrumental ADL	Severe symptoms; limiting self-care ADL; oxygen indicated	Life-threatening respiratory compromise; urgent intervention indicated (e.g., tracheotomy or intubation)	Death
General disorders	s					
Fatigue	none	Fatigue relieved by rest	Fatigue not relieved by rest; limiting instrumental ADL	Fatigue not relieved by rest, limiting self-care ADL		
ECOG Performan		1				1
*As published in Am. J. Clin. Oncol.: Oken, M.M., Creech, R.H., Tormey, D.C., Horton, J., Davis, T.E., McFadden, E.T., Carbone, P.P.: Toxicity And Response Criteria Of The Eastern Cooperative Oncology Group. Am J Clin Oncol 5:649-655, 1982.	Fully active	Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature,e.g., light housework, office work	Ambulatory and capable of all self-care but unable to carry out any work activities. Up and about more than 50% of waking hours	Capable of only limited self- care, confined to bed or chair more than 50% of waking hours	Completely disabled. Cannot carry on any self-care. Totally confined to bed or chair	Dead



b. If Y I	E S, ple	ease complete the	edema		Yes No Arm circumference LE cranon: m circumference LEFT arm Arm circumference RIC olecranon: Arm circumference RIC olecranon:	m, 10 cm BELOW olect	ranon: /E
			Grade				
Adverse Event	0	1	2	Т	3	4	5
Breast		_					
Edema limbs	none	5 - 10% inter-limb discrepancy in volume or circumference at point of greatest visible difference; swelling or obscuration of anatomic architecture on close inspection	>10 - 30% inter-limb discrepancy in volume or circumference at point of greatest visible difference; readily apparent obscuration of anatomic architecture; obliteration of skin folds; readily apparent deviation from normal anatomic contour; limiting instrumental ADL	1	>30% inter-limb discrepancy in volume; gross deviation from normal anatomic contour; limiting self.care ADL		
Musculoskeletal and o	onnectiv	e tissue disorders					
Joint range of motion decreased	none	<=25% loss of ROM (range of motion); decreased ROM limiting athletic activity	>25 - 50% decrease in <u>ROM;</u> limiting instrumental ADL		>50% decrease in ROM; limiting self.care ADL; disabling		
Fibrosis deep connective tissue/ Superficial soft tissue fibrosis	none	Mild induration, able to move skin parallel to plane (sliding) and perpendicular to skin (pinching up)	Moderate induration, able to sl skin, unable to pinch <u>skin;</u> limiti instrumental ADL		Severe induration; unable to slide or pinch skin; limiting joint or orifice movement (e.g. mouth, anus); limiting self.care ADL	Generalized; associated with signs or symptoms of impaired breathing or feeding	Death
Nervous system disord	ders			_			
Brachial plexopathy	none	Asymptomatic; clinical or diagnostic observations only; intervention not indicated	Moderate symptoms; limiting instrumental ADL	- 1	Severe symptoms; limiting <u>self</u> <u>care</u> ADL		

B10: Physician: Breast Cancer Clinical Outcomes Follow-up

Time points: Follow-up visit 2 weeks - 3 months



Data Ele	ments			Option	ns		
Patient's	Status	:		•			
Rate pat	ient's c	urrent breast	pain on a scale of 0-1				
Does the	patien	t have MOIST	desquamation	•	Yes		
				•	No		
Does the	patien	t have DRY de	squamation	•	Yes No		
Characte	riza av	tent of breast	erythema at present	•	None		
Characte	.112C CX	terre or breast	crythema at present		Mild		
					Moderate		
					Severe		
Characte	rizo the	e severity of a	ny hreact		None		
		tion at present			Mild		
Tryperpig	incina	tion at present	·		Moderate		
					Severe		
Characte	riza th	e severity of a	ny hraact		None		
		ion at present	-		Mild		
,,,,,,,					Moderate		
					Severe		
Please se	elect all	treatments re	ecommended for	•	None		
			n to RT within the past	•	Calendula		
month:					Aquaphor		
				•	Alra		
				•	Miaderm		
				•	Biafene		
				•	Silvadene		
				•	Corn starch		
				•	Hydrogel		
				•	Domeboro solu	tion	
				•	Eucerin		
				•	Cocoa butter		
				•	Topical corticos	teroids	
				•	Other topical ag	gent (specify):	
				•	Oral anti-inflam	matory or analgesic	medication
					(specify):		
				•	Oral antibiotic		
				•	Other oral agen	nt (specify):	
				•	Other intervent	ion (specify):	
Toxicity	Scoring	(CTCAE v 4.0)					
Adverse			Grade				
Adverse Event	0	1	2		3	4	5
Breast							



		Mild pain	Moderate pain: limiting			I
Breast	none	Mild pain	Moderate pain; limiting	Severe pain; limiting self		
oain		Trans	instrumental ADL	care ADL		
ymphede	none	Trace	Marked discoloration; leathery skin	Severe symptoms; limiting		
na of	none	thickening or	texture; papillary formation; limiting	self-care ADL		
oreast		faint	instrumental ADL			
Irin Disauda		discoloration				
kin Disorde	215	Faint andhama	Madarata ta brisk anythama, nataby	Maist desquamation in	Life threatening	Dooth
Radiation	nana	Faint erythema	Moderate to brisk erythema; patchy	Moist desquamation in	Life-threatening	Death
dermatitis	none	or dry	moist desquamation, mostly	areas other than skin folds	consequences; skin necrosis or ulceration of	
		desquamation	confined to skin folds and creases; moderate edema	and creases; bleeding induced by minor trauma or	full thickness dermis;	
			inoderate edema	abrasion	spontaneous bleeding	
				abrasion	from involved site; skin	
					graft indicated	
Pruritus		Mild or	Intense or widespread; intermittent;	Intense or widespread;	Brate maleated	
	none	localized;	skin changes from scratching (e.g.,	constant; limiting self care		
	none	topical	edema, population, excoriations,	ADL or sleep; oral		
		intervention	lichenification, oozing/crusts); oral	corticosteroid or		
		indicated	intervention indicated; limiting	immunosuppressive		
			instrumental ADL	therapy indicated		
Skin	none	Mild	Moderate induration, able to slide	Severe induration, unable to	Generalized; associated	Death
induration		induration,	skin, unable to pinch skin; limiting	slide or pinch skin; limiting	with signs or symptoms	
		able to move	instrumental to ADL	joint movement or orifice	or impaired breathing or	
		skin parallel to		(e.g., mouth, anus); limiting	feeding	
		plane (sliding)		self-care ADL		
		and				
		perpendicular				
		to skin				
		(pinching up).				
	letal and	connective tissue of				T
Chest wall		Mild pain	Moderate pain; limiting	Severe pain; limiting self		
pain	none		instrumental ADL	care ADL		
Cardiac diso		A t t -	Comparts and the province addition (a.g., also and	Davina udikia wikh ahwai alaaia	Life thurstanius	D+b
Pericarditi	none	Asymptomatic,	Symptomatic pericarditis (e.g., chest	Pericarditis with physiologic	Life-threatening	Death
5		ECG or physical	pain)	consequences (e.g.,	consequences; urgent	
		findings (e.g., rub) consistent		pericardial constriction)	intervention indicated	
		with				
		pericarditis				
Pericardia	none	periculaitis	Asymptomatic effusion size small to	Effusion with physiologic	Life-threatening	Death
effusion	Hone		moderate	consequences	consequences; urgent	Death
311431311			derate		intervention indicated	
Respiratory,	thoracic	and mediastinal di	sorders			
Dyspnea		Shortness of	Shortness of breath with minimal	Shortness of breath at rest;	Life-threatening	Death
	none	breath with	exertion; limiting instrumental ADL	limiting self care ADL	consequences; urgent	
		moderate			intervention indicated	
		exertion				
Pleuritic	none	Mild pain	Moderate pain; limiting	Severe pain; limiting self		
oain			instrumental AD	care ADL		
Pneumoni		Asymptomatic;	Symptomatic; medical intervention	Severe symptoms; limiting	Life-threatening	Death
tis	none	clinical or	indicated; limiting instrumental ADL	self care ADL; oxygen	respiratory	
		diagnostic		indicated	compromise; urgent	
		observations			intervention indicated	
		only;			(e.g., tracheotomy or	
		intervention			intubation)	
		not indicated				
General disc	orders	l sur	Learner and address of the con-	Fallers and are 11 in		ı
atigue		Fatigue	Fatigue not relieved by rest; limiting	Fatigue not relieved by rest,		
-COC D (Instrumental ADL	imiting seir care ADL		
COG Pertor	rmance Si	atus*				
ECOG Perfor	none	relieved by rest	instrumental ADL	limiting self care ADL		



*As published in Am. J. Clin. Oncol.: Oken, M.M., Creech, R.H., Tormey, D.C., Horton, J., Davis, T.E., McFadden, E.T., Carbone, P.P.: Toxicity And Response Criteria Of The Eastern Cooperative Oncology Group. Am J Clin Oncol 5:649-655, 1982.	Fully active	Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature,e.g., light housework, office work	Ambulatory and capable of all selfcare but unable to carry out any work activities. Up and about more than 50% of waking hours	Capable of only limited selfcare, confined to bed or chair more than 50% of waking hours	Completely disabled. Cannot carry on any selfcare. Totally confined to bed or chair	Dead
Is the p	c. If Y	YES, please co	nal nodal irradiation? mplete the edema and toxicity scoring.	Arm circumference LE Arm circumference LE Arm circumference LE Arm circumference LE	nce LEFT arm, 10 cm A EFT arm, 10 cm BELOW nce RIGHT arm, 10 cm I anon:	/ olecranon:



			Grade			
Adverse Event	0	1	2	3	4	5
Breast						
Edema limbs	none	5 - 10% inter-limb discrepancy in volume or circumference at point of greatest visible difference; swelling or obscuration of anatomic architecture on close inspection	>10 - 30% inter-limb discrepancy in volume or circumference at point of greatest visible difference; readily apparent obscuration of anatomic architecture; obliteration of skin folds; readily apparent deviation from normal anatomic contour; limiting instrumental ADL	>30% inter-limb discrepancy in volume; gross deviation from normal anatomic contour; limiting self care ADL		
Musculoskeletal and c	onnectiv	e tissue disorders				
Joint range of motion decreased	none	<=25% loss of ROM (range of motion); decreased ROM limiting athletic activity	>25 - 50% decrease in <u>ROM;</u> limiting instrumental ADL	>50% decrease in ROM; limiting self care ADL; disabling		
Fibrosis deep connective tissue/ Superficial soft tissue fibrosis	none	Mild induration, able to move skin parallel to plane (sliding) and perpendicular to skin (pinching up)	Moderate induration, able to slide skin, unable to pinch skin; limiting instrumental ADL	Severe induration; unable to slide or pinch skin; limiting joint or orifice movement (e.g. mouth, anus); limiting self care ADL	Generalized; associated with signs or symptoms of impaired breathing or feeding	Dear
Nervous system disord	lers					
Brachial plexopathy	none	Asymptomatic; clinical or diagnostic observations only; intervention not indicated		Severe symptoms; limiting <u>self</u> <u>care</u> ADL		

B13: Patient: Breast Cancer Long-Term Follow-Up Questionnaire

Time points: Annually

	., ,
Data Elements	Options
Please rate your breast pain:	
Please rate your breast pain by circling the one number that best describes your breast pain at its worst in the last 24 hours Please rate your breast pain by circling the one number that best describes your breast pain at its least in the last 24 hours Please rate your breast pain by circling the one number that best describes your breast pain on the average in the last 24 hour Please rate your breast pain by circling the one number that tells how much breast pain you have right now Please rate the following items on this four-point	0 (No pain) To 10 (Pain as bad as you can imagine) Difference between treated and untreated breast and
scale, according to your evaluation at this point in time	breast area
Breast size	
Breast texture (hardening)	
Arm heaviness	
Nipple appearance	



Shoulder movement MROQC Breast Data El	enients duide
Arm movement	
Breast pain	
Ability to lift objects	● None ● Slight
Fit of shirt sleeve	Moderate
Breast tenderness	• Large
Shoulder stiffness	
Breast shape	
Breast elevation (how high the breast is)	
Scar tissue	, None
Shoulder pain	None Slight
Arm pain	Moderate
Arm swelling	• Large
Breast swelling	
Arm stiffness	
Fit of bra	
Breast sensitivity	
Fit of clothing	
Please check the box next to the description that best describes how your treated breast looks and feels now	EXCELLENT: when compared to the untreated breast or the original appearance of the breast, there is minimal or no difference in the size or shape of the treated breast. The way the breast feels (its texture) is the same or slightly different. There may be thickening, scar tissue or fluid accumulation within the breast, but not enough to change the appearance GOOD: there is a slight difference in the size or shape of the treated breast as compared to the opposite breast or the original appearance of the treated breast. There may be some mild reddening or darkening of the breast. The thickening or scar tissue within the breast causes only a mild change in the shape or size FAIR: obvious differences in the size and shape of the treated breast. This change involves a quarter or less of the breast. There can be moderate thickening or scar tissue of the skin and the breast, and there may be obvious color changes



had additional surgery on their treated breast?

If yes, please specify (check all that apply):

MICHIGAN RADIATION ONCOLOGY —— QUALITY CONSORTIUM —— MROQC Breast Data El	ements Guide
	POOR: marked change in the appearance of the treated breast involving more than a quarter of the breast tissue. The skin changes may be obvious and detract from the appearance of the breast. Severe scarring and thickening of the breast, which clearly alters the appearance of the breast, may be found
Overall, how satisfied are you with your radiation therapy treatment	 Very satisfied Satisfied Neither satisfied nor dissatisfied Dissatisfied Very dissatisfied
Taking everything into consideration, if given the choice again, would you decide to have radiation therapy B14: Physician: 1-year/Annual	 Yes, definitely Probably yes I don't know Probably not Definitely not Follow-up Clinical Assessment Time points: Annually
Data Elements	Options
Patient's Status:	-
Rate patient's current breast pain on a scale of 0-10	
Please characterize the severity of any breast edema at present	 None Mild Moderate Severe
Please characterize the severity of any breast erythema at present	 None Mild Moderate Severe
Please characterize the severity of any breast hyperpigmentation at present	NoneMildModerateSevere
Please characterize the severity of any hypo pigmentation in the treated field at present	NoneMildModerateSevere
Since completing radiation treatment, has the patient	• Yes

No

Biopsy Mastectomy

Reconstructive surgery



—— QUALITY CONSORTIUM —— MIROQC Breast Data EI					
	Scar revision Linefilling				
	LipofillingOther-specify				
Toxicity Scoring	• Other-specify				
<u> </u>	Т				
Please assess the patient's overall breast cosmesis at	1. EXCELLENT: when compared to the untreated breast				
this time	or the original appearance of the breast, there is				
Circle the number (1 – 4) next to the word and	minimal or no difference in the size or shape of the				
description that best fits today's cosmetic results.	treated breast. The way the breast feels (texture) is the				
	same or slightly different. There may be thickening, scar tissue, or fluid accumulation within the breast, but				
	not enough to change the appearance.				
	2. GOOD: there is a slight difference in the size or				
	shape of the treated breast as compared to the				
	opposite breast or the original appearance of the				
	treated breast. There may be some mild reddening or				
	darkening of the breast. The thickening or scar tissue				
	within the breast causes only a mild change in the				
	shape or size.				
	3. FAIR: there is an obvious difference in the size and				
	shape of the treated breast. This change occupies a				
	quarter or less of the breast. There can be moderate				
	thickening or scar tissue of the skin and the breast, and there may be obvious color changes. 4. POOR: there is a marked change in the appearance of the treated breast involving more than a quarter of the breast tissue. The skin changes may be obvious and				
	the breast tissue. The skin changes may be obvious and detract from the appearance of the breast. Severe				
	scarring and thickening of the breast, which clearly				
	alters the appearance of the breast may be found.				
Please circle the number which most closely describes	areas are appearance or the preasuring seriounal				
the following possible outcomes					
 Skin telangiectasia 	• None - 0				
 Skin atrophy 	Present but doesn't affect cosmesis - 1				
 Scarring 	Present and affects cosmesis - 2				
 Pigment change 					
Erythema					
 Fat necrosis 					
• Fibrosis					
Retraction or contour defect					
 Volume loss 					
Other significant treatment effects					
(Please specify)					
Toxicity Scoring (CTCAE v 4.0)	<u> </u>				
. o					



Adverse Event	0	1 1	NIROQC Breast Data Eleme	3	4	5
Breast	U	1	Z	3	4	<u> </u>
Breast pain	none	Mild pain	Moderate pain; limiting instrumental ADL	Severe pain; limiting self-care ADL		
Lymphedema of breast	none	Trace thickening or faint discoloration	Marked discoloration; leathery skin texture; papillary formation; limiting instrumental ADL	Severe symptoms; limiting self- care ADL		
Breast nipple/areolar deformity	none	Asymptomatic ; asymmetry with slight retraction and/or thickening of the nipple areolar complex	Symptomatic; asymmetry of nipple areolar complex with moderate retraction and/or thickening of the nipple areolar complex			
Breast volume/ hypoplasia REMARK: Breast volume is referenced with both arms straight overhead	none	Minimal asymmetry; minimal atrophy	Moderate asymmetry; moderate atrophy	Asymmetry >1/3 of breast volume; severe atrophy		
Skin Disorders		e.t.i	Mandage to be delicated as the constraint	I Adaile dans and the transfer	Life the set of a	Death
Radiation dermatitis	none	Faint erythema or dry desquamation	Moderate to brisk erythema; patchy moist desquamation, mostly confined to skin folds and creases; moderate edema	Moist desquamation in areas other than skin folds and creases; bleeding induced by minor trauma or abrasion	Life-threatening consequences; skin necrosis or ulceration of full thickness dermis; spontaneous bleeding from involved site; skin graft indicated	Death
Pruritus	none	Mild or localized; topical intervention indicated	Intense or widespread; intermittent; skin changes from scratching (e.g., edema, population, excoriations, lichenification, oozing/crusts); oral intervention indicated; limiting instrumental ADL	Intense or widespread; constant; limiting self-care ADL or sleep; oral corticosteroid or immunosuppressive therapy indicated		
Skin induration	none	Mild induration, able to move skin parallel to plane (sliding) and perpendicular to skin (pinching up).	Moderate induration, able to slide skin, unable to pinch skin; limiting instrumental to ADL	Severe induration, unable to slide or pinch skin; limiting joint movement or orifice (e.g., mouth, anus); limiting self-care ADL	Generalized; associated with signs or symptoms or impaired breathing or feeding	Death
Musculoskeleta	l and coni	nective tissue diso	rders			
Chest wall pain	none	Mild pain	Moderate pain; limiting instrumental ADL	Severe pain; limiting self-care ADL		
Fibrosis – deep connective tissue	none	Mild induration, able to move skin parallel to plane (sliding) and perpendicular to skin (pinching up)	Moderate induration, able to slide skin, unable to pinch skin; limiting instrumental to ADL	Severe induration, unable to slide or pinch skin; limiting joint movement or orifice (e.g., mouth, anus); limiting self-care ADL	Generalized; associated with signs or symptoms or impaired breathing or feeding	Death



		ктим —	MROQC Breast Data Eleme			
Pericarditis	none	Asymptomatic , ECG or physical findings (e.g., rub) consistent with	Symptomatic pericarditis (e.g., chest pain)	Pericarditis with physiologic consequences (e.g., pericardial constriction)	Life-threatening consequences; urgent intervention indicated	Death
Pericardial effusion	none	pericarditis	Asymptomatic effusion size small to moderate	Effusion with physiologic consequences	Life-threatening consequences; urgent intervention indicated	Death
Respiratory, tho	racic and	mediastinal disor	ders			
Dyspnea	none	Shortness of breath with moderate exertion	Shortness of breath with minimal exertion; limiting instrumental ADL	Shortness of breath at rest; limiting self-care ADL	Life-threatening consequences; urgent intervention indicated	Death
Pleuritic pain	none	Mild pain	Moderate pain; limiting instrumental ADL	Severe pain; limiting self care ADL		
Pneumonitis	none	Asymptomatic ; clinical or diagnostic observations only; intervention not indicated	Symptomatic; medical intervention indicated; limiting instrumental ADL	Severe symptoms; limiting self- care ADL; oxygen indicated	Life-threatening respiratory compromise; urgent intervention indicated (e.g., tracheotomy or intubation)	Death
General disorde	rs					
Fatigue	none	Fatigue relieved by rest	Fatigue not relieved by rest; limiting instrumental ADL	Fatigue not relieved by rest, limiting self-care ADL		
ECOG Performan	nce Status					
*As published in Am. J. Clin. Oncol.: Oken, M.M., Creech, R.H., Tormey, D.C., Horton, J., Davis, T.E., McFadden, E.T., Carbone, P.P.: Toxicity And Response Criteria Of The Eastern Cooperative Oncology Group. Am J Clin Oncol 5:649-655, 1982.	Fully active	Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature,e.g., light housework, office work	Ambulatory and capable of all self-care but unable to carry out any work activities. Up and about more than 50% of waking hours I nodal irradiation?	Capable of only limited self-care, confined to bed or chair more than 50% of waking hours	Completely disabled. Cannot carry on any self-care. Totally confined to bed or chair	Dead
	If YES	, please comp	plete the edema	• Yes No		



					Arm circumference L	EFT arm, 10 cm ABOV	'E
				o	lecranon:		
				A	rm circumference LEFT a	rm, 10 cm BELOW ole	cranon:
					Arm circumference R olecranon	IGHT arm, 10 cm ABO	VE
					Arm circumference R	GHT arm, 10 cm BELC	ow
					olecranon	:	
			Grad	le			
Adverse Event Breast	0	1	2		3	4	5
Edema limbs	none	5 - 10% inter-limb discrepancy in volume or circumference at point of greatest visible difference; swelling or obscuration of anatomic architecture on close inspection 10 - 30% inter-limb discrepancy in volume or circumference at point of greatest visible difference; readily apparent obscuration of anatomic architecture; obliteration of skin folds; readily apparent deviation from normal anatomic contour; limiting instrumental ADL		>30% inter-limb discrepancy in volume; gross deviation from normal anatomic contour; limiting <u>self_care</u> ADL			
Musculoskeletal and	connectiv						
Joint range of motion decreased	none	<=25% loss of ROM (range of motion); decreased ROM limiting athletic activity	>25 - 50% decrease in <u>ROM;</u> limiting instrumental ADL		>50% decrease in ROM; limiting self_care ADL; disabling		
Fibrosis deep connective tissue/ Superficial soft tissue fibrosis	none	Mild induration, able to move skin parallel to plane (sliding) and perpendicular to skin (pinching up)	Mild induration, able to move skin parallel to plane (sliding) and perpendicular to skin		Severe induration; unable to slide or pinch skin; limiting joint or orifice movement (e.g. mouth, anus); limiting self care ADL	Generalized; associated with signs or symptoms of impaired breathing or feeding	Death
Nervous system disor	ders						
Brachial plexopathy	none	Asymptomatic; clinical or diagnostic instrumental ADL observations only; intervention not indicated Moderate symptoms; limiting instrumental ADL		ng	Severe symptoms; limiting <u>self</u> <u>care</u> ADL		
		Breast R	adiotherapy T	echr	nical Details Form		
Data Elements Options							
Simulation							
Which breast was treated?				Right Left			
In what position was the patient simulated?		•	Supine Decubitus				



	ProneOther. Please specify:
What positioning system was the patient immobilized with? Check all that apply.	 Breast board No immobilization Custom cradle Evacuated bean bag Other. Please Specify:
How was the breast immobilized? Check all that apply	 No special immobilization Patient's bra (cm) Thermoplastic material (cm) Custom bra (cm) Breast cup (cm) Other. Please Specify:
Select the primary method used to assess the motion of the breast and organs-at-risk during simulation.	 4DCT Fluoroscopy Slow CT Not determined. Flash to ensure coverage Scans at multiple breath hold states Other. Please Specify:
Select the primary device or technique used to minimize or account for the impact of respiration on the patient's simulation	 No special instruction Gating of radiotherapy (RPM, AlignRT, etc.) Voluntary breath hold without device Abdominal compression Breath hold with device (ABC, SDX, etc.) Other. Please Specify:
Was patient re-simulated for boost (new imaging and treatment plan)?	YesNoPatient did not receive a boost



If yes, in what position was the patient's boost simulated? [if Q7 = Yes]	SupineDecubitusProne
Targets	
What is the patient's mid-breast separation?	cm [between 10 and 50]
[Q10] Were any of the following nodal regions intentionally treated? Check all that apply.	 Supraclavicular Axillary (level I & II) Infraclavicular (level III axillary) Other. Please specify: Internal Mammary None
[Q11] Were contours for the lumpectomy cavity drawn for treatment planning?	YesNo
If the lumpectomy cavity is contoured, is a planning target volume (PTV) margin added for treatment planning?	 [if Q11 = Yes] Expansion added to cavity. Please specify: cm Included in auto-shaping margin for planning (such as for electron cutouts) Not explicitly considered
Treatment Planning	
[Q13] Select the number of plans treated	[drop-down menu: 1-10]
For each plan, specify:	[The user should be able to complete this process for as many plans as were indicated in Q13]
a. Planning Type	Forward PlanningInverse Planning
b. Dose delivered with this plan (Gy)	[between 1 and 70]



c. Number of fractions delivered with this plan	[between 1 and 40]
d. Treatment region	 Breast Lumpectomy bed Breast & nodes Nodes
e. Reason for plan	 Initial Planned boost Planned adaptation Unplanned modification
f. If not initial, what was the reason?	 [if Q14e=Planned adaptation or Unplanned modification] Minimize dose to critical structures Patient anatomy change Change in motion management strategy Other. Please specify:
g. Did this plan include a concomitant boost?	[if Q14e=Initial] • Yes • No
Prescription	
How is the dose to the breast prescribed?	 Midplane depth Gy to a reference point [between 20 and 70] Gy [between 20 and 70] to% Isodose Line [between 70 and 110] Gy [between 20 and 70] to% Volume [between 70 and 100]
How is the dose to the regional nodes prescribed?	 [If Q10 ≠ None] Depth Gy to a reference point [between 20 and 70] Gy [between 20 and 70] to% Isodose Line [between 70 and 110]



	Gy [between 20 and 70] to% Volume [between 70 and 100]
How is the dose to the lumpectomy bed prescribed? Note: If no boost was given, please enter 0 Gy for the second option.	 Midplane depth Gy to a reference point [between 0 and 30] Gy [between 5 and 30] to% Isodose Line [between 70 and 110] Gy [between 5 and 30] to% Volume [between 70 and 100]
Treatment Delivery and Image Guidance	
Select the primary motion management technique used for this patient for treatment delivery	 ITV to account for motion, free breathing Abdominal compression Voluntary breath hold without device No special instruction Breath hold with device (ABC, SDX, etc.) Other. Please specify: Gating of radiotherapy (RPM, AlignRT, etc.)
What type of imaging was used to verify this patient's setup?	 kV/MV portal CT (CBCT or TomoTherapy CT) Films Video-based system Other. Please specify:
For each imaging type, specify how often the patient was imaged during treatment.	 Daily Less than daily but more than weekly Weekly Other. Please specify: