

A MULTICENTER RANDOMIZED CONTROLLED TRIAL TESTING HYALURONIC ACID SPACER INJECTION FOR SKIN TOXICITY REDUCTION OF PERMANENT BREAST SEED IMPLANT (PBSI)

CASE REPORT FORM (CRF)

A MULTICENTER RANDOMIZED CONTROLLED TRIAL TESTING HYALURONIC ACID SPACER INJECTION FOR SKIN TOXICITY REDUCTION OF PERMANENT BREAST SEED IMPLANT (PBSI)

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Protocol version: Mar 2018 (version 5)

Note: this CRF was built as an e-CRF in OpenClinica



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Overview of events and CRF

The CRF's are devided over the following events:

- Baseline
- Treatment
- Follow-up 2M, 6M, 1YR, 2YR, 3YR, 4YR, 5YR, 10YR
- Recurrence
- Off-study

Randomization Form will be built separately in ALEA (*)

This form will contain basic patient characteristics, and a selection of the eligibility criteria:

- Date of birth → calculated age, ≥ 50 years (yes/no)
- Surgery: BCS+ axillary lymph node dissection or BCS + sentinel lymph node biopsy, (yes/no)
- Histological diagnosis: IDC or DCIS, (yes/no)
- Conditional question:
 - o if IDC: Surgical margins clear at ink or re-excision negative (yes/no)
 - o if DCIS: Surgical margin ≥ 2mm or re-excision negative (yes/no)
- Tumor size (mm), ≤30mm (yes/no)
- Nodal status (positive/negative)
- Lymphovascular invasion (yes/no)
- Known allergy for hyaluronic acid (yes/no)
- Neo-adjuvant chemotherapy (yes/no)
- PBSI technically feasible (yes/no)
- Any other exclusion criterion (yes/no)
- Date of written informed consent



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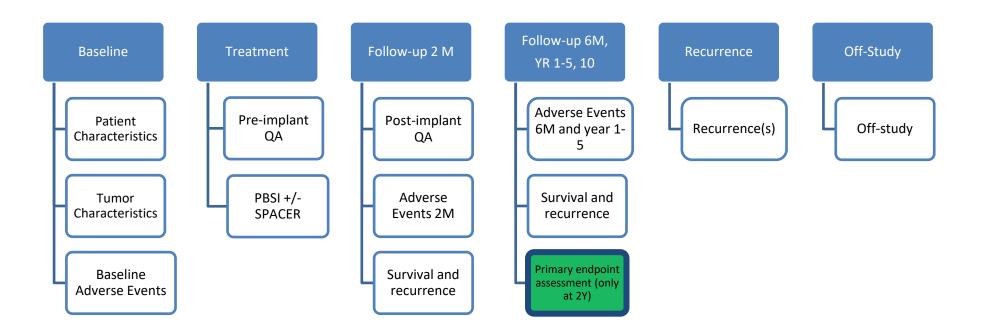
- Date of randomization
- Randomization result
- Subject IDnr

(*) export of data any time in agreement with CTC

PROMs will be collected in ABC Zorgmonitor: QLQ-C30/BR23, EQ-5D, BCTOS

Additional questionnaires not yet in Zorgmonitor: BCTOS at BL, 2M, YR1 and YR2





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CRF: Patient Characteristics

[DOR]	Date of randomization	DD / MM/ YYYY
[AGE]	Age at registration	I_I_I_I
[ALLINCL]	Did patient meet all inclusion criteria?	0 =no; 1 = yes
[ALLEXCL]	Did patient meet any exclusion criteria?	0 =no, 1 = yes
	If ALLINCL=1 or ALLEXCL=1: [ELIGCOM] Comments on eligibility	[FREE TEXT]
[DDIAG]	Date of first histological diagnosis	DD/ MM/ YYYY
[HEIGHT]	Height	_ cm
[WEIGHT]	Weight	kg
[CUPSIZE]	Breast cup size	(f.e. 80B)
[SMOKSTAT]	Smoking status	0 = never smoked 1 = former smoker 2 = current smoker 9 = unknown
[DM]	Diabetes Mellitus	0 = no 1 = insulin dependent 2 = not insulin dependent
[HT]	Hypertension	0=no; 1=yes
[CVRF]	History of MI, CVA, PAOD?	0=no; 1=yes
[ADJTX]	adjuvant therapy before/after PBSI	0 = no 1 = chemo 2 = hormone 3 = chemo+ hormone

If ADJTX>0:				
	THTX]	Start date hormone therapy		DD / MM / YYYY
	TCTX]	Start date chemotherapy		DD / MM / YYYY
[STOP	CIXI	Date of last chemotherapy		DD/ MM/ YYYY
[SURGDATE]	Date o	of surgery:		DD / MM / YYYY
[SURGTYPE]	Туре	of surgery:	II	1 = BCS + axillary lymphnode dissection2 = BCS + sentinel lymphnode biopsy
[SSI]	Surgic	al Site Infection (CDC)	I_I	0 = none 1 = superficial incisional SSI 2 = deep incisional SSI
CRF: Tumor	· Charac	cteristics		
[T]	T (NM)-classification 1997		Τ
[N]	(T)N(N	A)-classification 1997		N
[M]	(TN)M	I-classification 1997		M
[STAGE]	Clinica	al Stage		0 = stage 0
				1 = stage 1
				11 = stage 1b
				2 = stage 2a
				22 = stage 2b
				3 = stage 3a
				33 = stage 3b
				333 = stage 3c
				4 = stage 4

[TUMLAT]	Tumor laterality	II	1 = left 2 = right
[TUMSITE]	Tumor anatomical subsite	_	1= nipple 2 = central 3 = upper- inner quadrant 4 = lower- inner quadrant 5 = upper-outer quadrant 6 = lower-outer quadrant 7= axillary tail
[TUMORSIZE]	Tumor size	_ _	_ mm
[DISTSKIN]	Distance tumor to skin	_ _	_ mm
[MARGIN]	Resection margin status	I_I	0 = tumor free at ink (IDC) or >2mm for DCIS 1 = focal irradical or <2mm for DCIS 2 =irradical 9 = unknown
[HISTOL]	Histological Diagnosis	I_I	1 = IDC 2 = DCIS 3 = IDC+DCIS 4 = other,
[HISTCOM]	IF HISTOL=4 please specify FREE TEXT		· other,
[TUMGRAD]	Modified Scarf-Bloom-Richardson grade	II	
[PR]	PR-receptor status	II	0 = negative 1 = positive
[ER]	ER-receptor status	II	0 = negative 1 = positive
[HER2NEU]	Her-2neu -receptor status	II	0 = negative 1 = positive
[LVI]	Lymfovascular Invasion	II	0 = no 1 = yes

[MULTI]	multicentricity	0 = no	
		1 = yes	
[EXTDCIS]	Extensive DCIS (beyond invasive tumor, or >3cm)	lI	0 = no
			1 = yes
[BILAT]	Bilateral breast cancer?		0 = no
			1 = yes
[RECUR]	Recurrent breast cancer?		0 = no
			1 = yes
[ACTOTH]	Active other cancer (defined by malignancy in<5 years	?)	0 = no
			1 = ves

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CRF: Baseline Adverse Events (as close as possible to start PBSI)

[AEDATE]	Date of AE assessment	DD / N	1M/ YYYY
[BASPAIN]	Baseline pain in breast	<u> _ </u>	 0 = none 1 = occasional and minimal, hypersensation, pruritus 2 = intermittent and tolerable 3 = persistent and intense 4 = refractory and excruciating
[BASSSI]	Baseline Surgical Site Infection	<u> _ </u>	0 = none 1 = superficial SSI 2 = deep SSI
[BASTELEANG]	Baseline Teleangiectasia (Bentzen scale)	I_I	0 =none 1 = grade I – less than 1cm2 2 =grade II – 1 to 4 cm2 3 =grade III – over 4 cm2
[BASSUBINDUR]Baseline Subcutaneaous Induration	subcut 2 =mod asymp 3 =sev	pht induration and loss of aneous fat derate fibrosis but tomatic ere induration and loss of aneous tissue; field contracture
[BASPIGM]	Baseline pigmentation	II	0 = none 1 = transitory, slight 2 = permanent, marked
[OTHERAE] in grid/table (m	Any other AE? nultiple entries possible):		0=no, 1=yes *If yes, enter
- AE tern	organ Class (conform CTCAE4/MEDRA) n (conform CTCAE4/MEDRA) nde (1-4)		

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CRF: Pre-implant QA

Group: Genera	I		
[PLANCT1]	Date of planning CT scan		DD / MM / YYYY
[PRECTV]	CTV	. _c	С
[PREPTV] [PRESEEDNUM	PTV] Total number of seeds	_ . _	_ cc
[PRENEEDNUM]Total number of needles		_ _
[TOTACT]	Total activity of seeds		_ _ U
[PRESKINPTV]	minimal distance skin to PTV		. mm
[PRESKINISO]	distance between CTV isocente	r and skin	_ . mm
Group: DVH pa [PREV100] [PREV200] [PRED90] [PRESK90] [PRED0.2] [PRED0.05]	Pre-implant V100 Pre-implant V200 Pre-implant D90 Pre-implant skin isodose>90% of Pre-implant D0.2cc skin dose Pre-implant D0.05cc skin dose	_ _ .	_ % _ % _ cc 0=no, 1=yes _ Gy _ Gy
CRF: PBSI +/-	- SPACER		
[PBSIDATE]	Date of PBSI procedure		DD / MM / YYYY
[PBSIDUR]	Duration of PBSI procedure		min
[PBSIDIFF]	any difficulties in PBSI procedur	re. please specify	

[SPACER]	Spacer	administ	tered			II	0=no; 1=yes
[SPACDUR]	Duratio	on of spa	cer injection p	orocedure		_	_ min
[SPACMCR]	Spacer	administ	tered in medic	ocranial quadr	ant of skin projectio	n	0=no, 1=yes
[SPACMCA]	Spacer	administ	tered in medic	ocaudal quadr	ant of skin projectio	n	0=no, 1=yes
[SPACLCA]	Spacer	administ	tered in latero	caudal quadra	ant of skin projectior	n	0=no, 1=yes
[SPACLCR]	Spacer	administ	tered in latero	ocranial quadra	ant of skin projection	n	0=no, 1=yes
If SPACER=1:	[SPACV	OL]	Volume of sp	acer administ	ered	_	_ cc
[SPACDIFF]	any dif	ficulties i		f not recorded ction, please sp) pecify:		
[USSPATRANCE	EN]	mid spa	acer thickness	central transv	ersal plane on ultras	sound _	_ _ . mm
[USSPATRANCF	RA]	mid spa	acer thickness	cranial transv	ersal plane on US	_	_ . mm
[USSPATRANCA	AU]	mid spa	acer thickness	caudal transv	ersal plane on US	_	_ . mm
[USSPASAGCEN	١]	mid spa	acer thickness	central saggit	al plane on US	II_	_ . mm
[USSPASAGLAT]	mid spa	acer thickness	lateral saggita	al plane on US	_	_ . mm
[USSPASAGME	D]	mid spa	acer thickness	medial saggita	al planel on US	_ _	_ . mm
[SPASUC]	Spacer	injection	n successful (>	5mm in all inj	ected quadrants)	1 1	0=no, 1=yes

CRF: treatment pain					
[PAINBAS]	Pain before procedure (baseline, LENTSOMA)	II	0-4		
[PAINPBSI]	Pain during procedure (baseline, LENTSOMA)	II	0-4		
[PAINPOST]	Maximum pain after procedure (1-2 d post-implant, LENTSOMA)	II	0-4		

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CRF: Adverse Events 2 months

[2MASSDATE]	Date of AE assessment	DD / MM	/ YYYY
[2MPAIN]	pain in breast	0	= none
		h 2 3	= occasional and minimal,ypersensation, pruritus= intermittent and tolerable= persistent and intense= refractory and excruciating
[2MPAINS]	If AEPAIN>0: Was AE serious(SAE)?	0=nd	o, 1=yes
[2MRED]	Redness	0	=none
			= yes but no effect on ADL = yes and effect on ADL
[2MREDS]	If AERED >0: Was AE serious(SAE)?	0=nd	o, 1=yes
[2MPIGM]	Pigmentation	1	= none = transitory, slight = permanent, marked
[2MPIGMS]	If AEPIGM >0: Was AE serious(SAE)?	0=nd	o, 1=yes
[2MSKININD]	Skin induration	to plane (sliding) a (pinching up) 2 = Moderate indu unable to pinch sk	on, able to move skin parallel and perpendicular to skin uration, able to slide skin, kin; limiting instrumental ADL tion, unable to slide or pinch care ADL
[2MSKININDS]	If AESKININD >0: Was AE serious(SAE)?	1_	0=no, 1=yes

[2MRADDERM] Radiation dermatitis			_	 0 = none 1 = Faint erythema or dry desquamation 2 = Moderate to brisk erythema; patchy moist desquamation, mostly confined to skin folds and creases; moderate edema 3 = Moist desquamation in areas other than skin folds and creases; bleeding induced by minor trauma or abrasion 4 = skin necrosis/ulceration of full thickness dermis; spontaneous bleeding from involved site; (skin graft indicated) 			
[2MRADDERMS	5] If AERA	DDERM >0: Was AE serious	(SAE)?		0=no, 1=y	yes .	
[2MSKINTOXDIST] [2MSKINTOXANGLE]		Distance of clinical max skintoxicity from reference point (nipple lowerinner) Angle of clinical max skintoxicity from reference point (nipple lowerinner)			_ mm		
[2MSSI]	Surgical Site In	fection			I_I	0 = none 1 = superficial SSI 2 = deep SSI	
[2MSSIS]	If AESSI >0: Wa	s AE serious(SAE)?		II	0=no, 1=yes	
[2MOTHERAE]	Any other RT (c	or spacer) induce	d AE?		lI	0=no; 1=yes	

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If OTHERAE=yes: Enter in grid/table (multiple entries possible):

- System organ Class (drop down list conform CTCAE4/MEDRA)
- AE term (drop down list conform CTCAE4/MEDRA)
- Worst grade observed since last AE evaluation (1-5)
- Serious: yes/no

CRF: Post-implant QA

Group: general postplanning CT variables [PLANCT2] Date of post-implant CT scan

[POSTCTV]	post-implant CTV	_ cc
[POSTVOL]	post-implant treatment volume with Minimal peripheral dose (90Gy) _ . cc
		111.11 00
[POSTSEEDNUN	M] Total number of seeds	_
[SEEDDISPLACE	ED] any seeds displaced>1 cm	0=no, 1=yes
[DISPSPEC]	If SEEDDISPLACED =1: Specify [FREE TEXT]	
[POSTVOLSKIN]	minimal distance skin to POSTVOL _ . n	nm
[POSTISOSKIN]	distance between CTV isocenter and skin _ . n	nm
Group: DVH pa	rameters on CT	
[POSTV100]	post-implant V100	. %
[POSTV200]	post -implant V200	. %
[POSTD90VOL]	post-implant D90 of skin	_ . cc

DD/ MM/ YYYY

[POSTSK90]	post-in	nplant skin isodose>90% over 1cm²			0	=no, 1=yes
[POSTD02] [POSTD005]	•	nplant D0.2cc skin dose nplant D0.05cc skin dose			_ _	_ . Gy _ . Gy
Group: spacer	measure	ements on CT at 2 months				
[CTSPACER]		any spacer visible on CT			<u> _ </u>	0=no, 1=yes
[CTSPACMCR]	spacer	in mediocranial quadrant of skin projecti	ion	II	0=no, :	1=yes
[CTSPACMCA]	spacer	in mediocaudal quadrant of skin projecti	ion	<u> _ </u>	0=no, :	1=yes
[CTSPACLCA]	spacer	in laterocaudal quadrant of skin projection	on	II	0=no, 1	1=yes
[CTSPACLCR]	spacer	in laterocranial quadrant of skin projection	on	<u> _ </u>	0=no, :	1=yes
If SPACER=1:						
[CTSPACVOL]	Volum	e of spacer on CT			_ _	_ cc
[CTSPATRANCE	EN]	mid spacer thickness central transversa	l plane o	n CT	_ _	_ . mm
[CTSPATRANCF	RA]	mid spacer thickness cranial transversal	l plane o	n CT	_ _	_ . mm
[CTSPATRANCA	AU]	mid spacer thickness caudal transversal	er thickness caudal transversal plane on CT			_ . mm
[CTSPASAGCEN	١]	mid spacer thickness central saggital pla	d spacer thickness central saggital plane on CT			_ . mm
[CTSPASAGLAT	.]	mid spacer thickness lateral saggital pla	ne on CT	-	_ _	_ . mm
[CTSPASAGME	D]	mid spacer thickness medial saggital pla	ane on C	Γ	II_	_ . mm
Group: gafchro	omic film	n skin dose measurement				
[FILMUSED]		gafchromic film used?	0=	no, 1=y	es	
IF FII MUSED=1	than					

[FILMMAX]		maximum point skindose on film	_	_ _ . _	_ Gy
[FILMMAX1CM	1]	maximum skindose on film over at least 1cm ²	II_	_ _ . _	_ Gy
[FILMAUC]		AUC skindose on film	II_	_ _ . _	_ Gy*cm
[FILMLOCDIST]		Distance of max point skindose on film from reference point (projected isocenter)	ll_	_ _ . _	_ mm
[FILMLOCANG]		Angle of max point skindose on film from reference point (projected isocenter)		0-360°	
CRF: Surviva	l and re	ecurrence			
[FUDATE]	Date la	st known to be alive / date of death	DD/MI	M/ YYYY	
[SURVIVAL]	Surviva	l status	I_I	1 = aliv 2 = dea 8 = lost	
[RADDATE]	Date la	st mammography or CT-scan	DD/MI	M/YYYY	[]not done
[RECURR]	•	current disease (not yet reported) blease complete the recurrence form	0)=no; 1=y	es

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CRF: Recurrence

Please I	report/update <u>a.</u>	ll recurrences until start of a new antican	cer trea	tment			
[LREC]	Local re	ecurrence (ipsilateral breast/chestwall)		0=no; 1=yes			
	If LREC=1: [LRECDATE]	Date of local recurrence	DD/MN	л/ үүүү			
	[LRECLOC]	Localization of local recurrence	2 = ipsi 3 = ipsi 4 = ipsi	lateral i lateral i lateral i	breast same quadrant breast other quadrant chest wall same quadrant chest wall other quadrant location not documented		
	[LRECHIS]	Cyt/hist proof of recurrence	II	0 = no,	; 1=yes		
	[LRECPATH]	Local recurrence of disease under study confirmed by pathologist	<u> _</u>	prima 1 = yes recurr	, (probably) a new ry tumor s, (probably) a local rence certain, specify		
	[SLRECDIA]	Comments on diagnosis	[FREE T	EXT]			
[RREC]	Region	al recurrence (ipsilateral lymphnodes/a.	xilla)	II	0=no; 1=yes		
	If RREC=1: [RRECDATE]	Date of regional recurrence	DD/MN	л/ үүүү			
	[RRECLOC]	Localization of regional recurrence	I_I		ernal mammary chain oraclavicular area illa		
	[RRECHIS]	Cyt/hist proof of regional recurrence	II	0 = no.	; 1=yes		
	[RRECPATH]	Regional recurrence of disease under study confirmed by pathologist	II	0 = no,	, (probably) other tumor		

[SRRECDIA]				1 = yes, (probably) regional recurrence 2 = uncertain, specify [FREE TEXT]		
[DMET]		Distant	metastases	II	0=no; 1=yes	
ı	If DME	T=1:				
	[DMETI	DATE]	Date of distant metastases	DD/MI	M/ YYYY	
	[DMETI	HIS]	Cyt/hist proof of distant metastases	II	0 = no; 1=yes	
	[DMETI	PATH]	Distant metastases from disease under study confirmed by pathologist	I_I	 0 = no, (probably) (from) other primary tumor 1 = yes, (probably)from disease under study 2 = uncertain, specify 	
	[DMETI	DIA]	Comments on diagnosis	[FREE	гехт]	
[PLANTR	RTM]		d further treatment est anticancer treatment after PBSI)	I_I	0= none 1= mastectomy 2= radiotherapy 3= chemotherapy 4= targeted therapy 5= combination	
[SPLANT	RTM]	Specify	:	[FREE		
If locore	gional d	or distan	t recurrence, follow-up local recurrence			

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CRF: Adverse Events 6 months and year 1-5

[AEDATE]	Date of AE assessment	DD / N	1M / YYYY
[AETELEANG]	Telangiectasia (Bentzen scale)	I_I	0 =none 1 = grade I - less than 1cm2 2 =grade II - 1 to 4 cm2 3 =grade III - over 4 cm2
[AETELEANGS]	If AETELEANG >0: Was AE serious(SAE)?	II	0=no, 1=yes
[AEPAIN]	pain in breast	<u> _ </u>	 0 = none 1 = occasional and minimal, hypersensation, pruritus 2 = intermittent and tolerable 3 = persistent and intense 4 = refractory and excruciating
[AEPAINS]	If AEPAIN>0: Was AE serious(SAE)?	I_I	0=no, 1=yes
[AERED]	Redness	<u> _ </u>	0 =none 1 = yes but no effect on ADL 2 = yes and effect on ADL
[AEREDS]	If AERED >0: Was AE serious(SAE)?	II	0=no, 1=yes
[AEPIGM]	Pigmentation	<u> _ </u>	0 = none1 = transitory, slight2 = permanent, marked
[AEPIGMS]	If AEPIGM >0: Was AE serious(SAE)?	II	0=no, 1=yes
[AESKININD]	Skin induration	<u> _</u>	0 = none 1 = Mild induration, able to move skin parallel to plane (sliding) and perpendicular to skin (pinching up)

			2 = Moderate induration, able to slide skin, unable to pinch skin; limiting instrumental ADL 3 = Severe induration, unable to slide or pinch skin; limiting self- care ADL 4 = Generalized				
[AESKININDS]	If AESKININD >0: Was AE serious(SAE)?	II	0=no, 1=yes				
[AESUBIND]	Subcutaneaous Induration	I_I	0 = none 1 = slight induration and loss of subcutaneous fat 2 = moderate fibrosis but asymptomatic 3 = severe induration and loss of subcutaneous tissue; field contracture 4 = necrosis				
[AESUBINDS]	If AESUBIND >0: Was AE serious(SAE)?	II	0=no, 1=yes				
[OTHERAE]	Any other RT (or spacer) induced AE? E=yes: Enter in grid/table (multiple entries)	ll	0=no; 1=yes				
- System organ Class (drop down list conform CTCAE4/MEDRA)							
- AE term (drop down list conform CTCAE4/MEDRA)							
- Wo	- Worst grade observed since last AE evaluation (1-5)						
- Ser	- Serious: yes/no						

CRF: Off-stud	dy					
[DOFF]	Date o	ff-study		DD / MM / YYYY		
[OFFREAS]	Reasor	n off-study	I_I	1 = end of follow-up period, without recurrence 2 = recurrent disease 3 = start systemic/locoregional anti-cancer treatment/ breast surgery 4 = death 5 = patient withdrawal 6 = ineligibility 7 = other		
[SPOFFREAS]	Specify	reason off-study		[FREE TEXT]		
If OFFREAS=3:						
[CODE		Cause of death Specify cause of death	<u> _ </u>	1 = Breast cancer 2 = Concurrent disease 3 = Treatment related toxicity 4 = Other [FREE TEXT]		
[SEEDMIGR]	Any kn	own seed migration?	<i>0</i> :	=no; 1=yes		
[MIGRSPEC] If SEEDMIGR=1: Specify			[FREE TEXT]			

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CRF: Primary endpoint assessment (will initially be entered on paper CRF during clinical assessment, and entered in e-CRF later)

Date of assessment	DD / MM / YYY	Y			
Physician who scored primary e	endpoint				
[TELEANG] Teleangiectasia	Teleangiectasia (Bentzen)		<u> _ </u>	0 =none 1 = grade I – less than 1cm2 2 =grade II – 1 to 4 cm2 3 =grade III – over 4 cm2	
Evaluability of primary endpoin		II	0=non-evaluable; 1=evaluable		
If non-evaluable, reason:	Re-irradiation o	on ipsilateral bre	ast/che	stwall < 2 yrs post-treatment	
	Re-surgery on i	psilateral breast	/chestw	rall < 2 yrs post treatment	
	Death < 2 yrs p	ost treatment			
	Lost to follow-u	v-up < 2 yrs post treatment			
	other, specify				
Specify					