



EUROPEAN BREAST CANCER NETWORK

Project 3.8

European Screening Evaluation Database

Scientific Report for the first year of the study

Dr. Antonio Ponti
CPO - Piemonte
Via San Francesco da Paola 31
10123 Torino (I)
tel +39 011 5664566
fax +39 055 5664561
antonio.ponti@cpo.it

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European Screening Evaluation Database

Final Report

Participating Centres

- Belgium

Leuven: LUCK Leuvens University Centre for Cancer prevention

- France

Strasbourg : Ademas Association pour le Dépistage des Maladies du Sein

- Italy

Centro Prevenzione Oncologica Torino

Centro per lo Studio e la Prevenzione Oncologica Firenze

- Luxembourg

CRP-Santé, Centre de Recherche Public de la Santé

- Germany

Cologne: Mammographie-Screening Planungsstelle

Bremen: Mammographie-Screening-Zentrum

Wiesbaden: Mammographie-Screening Wiesbaden

- Spain

Pamplona: Department of Health, Government of Navarra

Scientific report

Introduction

The European Guidelines on Quality Assurance in Mammography Screening, recently updated (2001), define a number of performance and early impact parameters that each programme should monitor, with suggested targets.

A comparison of these performance parameters among programmes delivering service screening throughout Europe is likely to produce more valid results if based on the analysis of a common data set of individual data, for the following reasons:

The process of collecting individual data in several centres makes it necessary to define a very precise set of common definitions and rules which are likely to improve the consistency of results, compared to aggregated data;

Data analysis and calculation of parameters on the common data set, as opposed to several analyses performed independently at each of the screening programmes, reduce errors depending on differences in the analytical approach.

The availability of an audit system capable of calculating European screening performance parameters and including a database containing the required items would contribute to the standardisation of screening evaluation in Europe both by facilitating joint data collection and multi-centre comparisons and by helping individual programmes to evaluate their own performance.

Aims of the project

To facilitate the implementation of the European Quality Assurance Guidelines in Mammography Screening making available to European breast cancer screening programmes a standard database and audit system capable of calculating, at a local or regional level, a number of process and early impact indicators of breast cancer screening and of producing statistics relevant to the running of the screening programme.

To compare performance parameters of several screening programmes in Europe, analysed on a common individual data set .

Methods

Detailed algorithms to calculate a number of European screening performance parameters (Table 2) have been produced. A minimum data set containing items required to calculate these parameters has been defined (Appendix 1). The database includes all relevant stratification variables (calendar time, age, screening units, etc.) and is structured in such a way to incorporate the appropriate screening organisation scales (screening round, first and subsequent tests, screening and assessment, routine recalls and intermediate mammography, etc.).

A professionally-built software application (Oracle database) capable of calculating the parameters and a number of standard reports and of allowing user-driven data analysis has been produced. For piloting the database, in each participating Centre data has been extracted from the local system

and transferred, in respect to privacy regulations, to the Oracle evaluation database. For this pilot analysis each programme was requested to provide individual data on at least one year of screening. The extraction process has required detailed discussion among the local teams and the project co-ordination and written documentation has been produced in order to improve consistency of data collection. Data analysis has been performed centrally on the evaluation database and results have been compared with individual analyses performed locally in the usual way.

Results and discussion

Seven screening programmes contributed data referring to eight years of screening and almost 150,000 invitations (Table 1). All participating Centres provided data, except for the screening programme in Strasbourg which advised early not to be able to do so for the first year, but participated in project meetings. However, the German partner participated with two screening programmes instead than one as anticipated. The total number of screening tests was 82536. The number of women referred to assessment was 4051. The number of screen detected cancers was 650 (of which 108 in situ) and 332 excisional surgical biopsies or operations resulted in a post operative benign diagnosis.

Performance parameters varied widely across programmes (Table 2): when calculated without stratification by first / subsequent test participation rates ranged from 34% to 90%, further assessment rate from 3.3% to 14.8%, breast cancer detection rate from 4.6 to 12 per 1000, benign to malignant biopsies ratio from 0.19 to 1.0.

Further validation of these data is required, and several programmes are now in fact checking specific items in order to approve the result or identifying any problems in data collection or analysis. If confirmed after validation and appropriate stratification by screening examination and age, the wide range of results should prompt a useful discussion and the identification for each screening programme of specific quality assurance issues that each Centre should address. Furthermore numbers are too small to ensure appropriate statistical power for many comparisons. Results will be submitted for publication to peer reviewed journals after completion of the second year of the study, entailing data collection for a longer time period (at least three years of screening at each participating Centre).

As a result of the pilot analysis and the discussion that has taken place at the november Turin meeting, the Oracle database has been updated. According to the project aims, the database allows calculation of performance parameters and user driven analysis. Data must be resident in a server and the database can be accessed securely by internet. Each user can access its own data but data merge is possible in the framework of collaborative projects. Download would be possible towards the QT Audit System and, of course, any specialised statistical package. The project group wishes, if the meeting schedule allows this, to give a short demonstration of the database at the EBCN annual meeting in Stockholm in June 2003. At the end of the project, the database will constitute a tool for screening evaluation usable on their own data by all EBCN members.

Table 1. Number of cases by participating Centre

	TURIN	FLORENCE	LEUVEN	BREMEN	WIESBADEN	LUXEMBURG	PAMPLONA	PAMPLONA	TOTAL
Year	1999	1999	1999	2001	2002	2000	1999	1995	
Invitations	61831	24726	10681	12383	4855	17616	4342	5967	142401
Tests total	31746	16714	10681	4160	1753	8332	3899	5251	82536
First tests	17940	2569	7573	4160	1753	8332	39	73	42439
Subsequent tests	13806	14145	3108	0	0	0	3860	5178	40097
Assessment	1247	736	246	612	117	510	151	432	4051
Interm. mamm. after assessment	350	0	8	0	0	4	39	82	483
Interm. mamm. after screening	0	0	7	0	0	10	149	119	285
Screen detected cancer (in situ)									108
Screen detected cancer (invasive)									542
Benign operations									332

Table 2. Range of results for selected screening performance parameters (seven Centres, age 50-69, first and subsequent screening examinations).

Indicator	LOWEST RESULT	HIGHEST RESULT
PARTECIPATION RATE	33,59%	89,80%
FURTHER ASSESSMENT RATE	3,27%	14,77%
TECHNICAL REPEAT RATE	0,00%	0,86%
INTERMEDIATE MAMMOGRAPHY RATE (FOLLOWING SCREENING)	0,00%	3,82%
INTERMEDIATE MAMMOGRAPHY RATE (FOLLOWING FURTHER ASSESSMENT)	0,00%	1,56%
BREAST CANCER DETECTION RATE (TOT.) per 1000	4,57	12,00
BREAST CANCER DETECTION RATE (INV.) per 1000	3,85	7,75
BREAST CANCER DETECTION RATE (DCIS) per 1000	0,51	2,64
SMALL (<=10MM) INVASIVE CANCERS AS PROPORTION OF INVASIVE CANCERS	20,83%	39,43%
BENIGN BIOPSIES RATE per 1000	1,08	9,28
B/M RATIO	0,19	1,00
NODE NEGATIVE CANCERS / TOTAL INVASIVE CANCERS SCREEN-DETECTED	37,50%	91,89%
STAGE 2+ BREAST CANCERS / TOTAL CANCERS SCREEN-DETECTED	0,00	40,00%
STAGE 2+ BREAST CANCERS / TOTAL SCREENED WOMEN * 1000	0,00%	2,52
%CONSERVATIVE THERAPY (IS)	31,82%	100,00%
%CONSERVATIVE THERAPY (INV)	50,00%	80,00%
%CONSERVATIVE THERAPY (pT1 only)	50,00%	100,00%

CODEBOOK OF THE SCREENING EVALUATION DATABASE – 19 OCTOBER 2002

– **PERSONS FILE (ONE RECORD PER WOMAN)**

N°	Database Variable name	Item	Format	Length	Notes	INDICATORS
1 ¹	Country_ID	ID Country	String	4	4 digits for national tel prefix No NULL nor Unknown values admitted!	
2	Program_ID	ID Programme	String	4	4 digits for regional prefix or other programme code No NULL nor Unknown values admitted!	
3	Id	Person ID code ²	String	25	No NULL nor Unknown values admitted!	
5	D_birth	Date of birth	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	IN ORDER TO CALCULATE THE VARIABLE "AGE" AND THE AGE GROUPS
6	D_1_inv	Date first invitation ³	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	IN ORDER TO CALCULATE THE VARIABLE "AGE" AND THE AGE GROUPS
7	D_1_scr	Date first screening test	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	IN ORDER TO CALCULATE THE VARIABLE "AGE" AND THE AGE GROUPS
8	D_1invCE	Date first invitation in current patient episode ⁴	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
9	D_Excl	Date exclusion from programme	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
10	Reas_exc	Optional: Reason for exclusion	Number	2	-1= Unknown 1= Age 2= Emigration 3= Death 4= Breast Cancer: bilateral mastectomy 5= Breast Cancer (Other) 6= Patient request	

¹ The only mandatory fields are COUNTRY_ID, PROGRAM_ID, ID, EPISODE, EP_TEST, ASSRECNO, wherever they appear; all the other fields are optional and may also assume UNKNOWN values. A special blank character is to be used for NULL values of fields in tabbed text input files.

² This code should be defined within each Country or screening Centre and be always present. When individual screening databases are merged this code, coupled with the Country and Centre codes, would serve as unique identification. Names, of course, would not be part of this merged database.

³ Applies to programmes issuing personal invitations

⁴ Applies to programmes issuing personal invitations

					7= Other 8= Lost	
11	D_reincl	Date re-inclusion	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
12	Reas_inc	Optional: Reason for re-inclusion	Number	2	-1 = Unknown 1= Immigrated again 2= Patient request 3= Other	
13	D_death	Date of death	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
	C_death	Cause of death			-1 = Unknown 1= breast cancer 2= other	

- PATIENT EPISODES[+SCREENING TESTS] FILE (1 - n RECORD PER WOMAN)

N°	Database Variable name	Item	Format	Length	Notes	INDICATORS
14	Country_ID	ID Country	String	4	4 digits for national tel prefix. No NULL nor Unknown values admitted!	
15	Program_ID	ID Programme	String	4	4 digits for regional prefix or other programme code. No NULL nor Unknown values admitted!	
16	Id	Person ID code	String	25	No NULL nor Unknown values admitted!	
17	Episode	Patient episode No.	Number	2	Ordinal number of this episode (with or without test) within all episodes (with or without test). No NULL nor Unknown values admitted!	
18	Ep_test	Patient episode No. with Test	Number	2	Ordinal number of this episode (if it is with test) within all episodes with test . -1 = Unknown	IN ORDER TO CALCULATE THE INDICATORS SEPARATELY FOR FIRST SCREENING AND SUBSEQUENT TESTS
19	Withtest ⁵	This episode with test?	Number	2	-1 = Unknown 0 = NO 1 = YES	
20	Ep_type	Type of episode (how does this episode starts)	Number	2	-1 = Unknown 1= Personal invitation 2= Spontaneous presentation	PARTECIPATION RATE
	Symptoms	Presence of symptoms at presentation	Number	2	-1 = Unknown 0 = NO 1 = YES	
21	Sp_sc_pr	Optional: Special screening protocol	Number	2	-1 = Unknown 1= Cancer follow up 2= High familiar risk 3= Age 4= Other	
22	D_inv_ep	Date first invitation in this patient episode	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
23	Ep_resul	Result of the episode (how does this episode ends)	Number	2	-1 = Unknown 1= Exclusion (see persons file)	-FURTHER ASSESSMENT RATE -FURTHER ASSESSMENT RATE FOR NON

⁵ A value NO for Withtest implies that all the screening-test-related fields in the range 24-39 are NULL

					2= Returned letter 3= Test not performed for recent mammogram 4= Not respondent(screening) 5= Not respondent(assessment) 6= Negative 7= Referred to surgery or inoperable cancer 8= Incomplete assessment	INVASIVE INVESTIGATIONS -FURTHER ASSESSMENT RATE FOR INVASIVE INVESTIGATIONS -TECHNICAL RECALL RATE -INTERMEDIATE MAMMOGRAPHY RATE AFTER SCREENING AND AFTER ASSESSMENT -PARTECIPATION RATE -BENIGN BIOPSES RATE -DETECTION RATE -SMALL(≤10MM) INVASIVE CANCERS AS A PROPORTION OF TOTAL SCREENED WOMEN -SMALL(≤15MM) INVASIVE CANCERS AS A PROPORTION OF TOTAL SCREENED WOMEN
	GP_code	General Practitioner or referring physician code	String	20	No Unknown values admitted!	
24	D_mx	Date examination	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	- IN ORDER TO CALCULATE THE VARIABLE "AGE" AND THE AGE GROUPS -TIME B/T SCREENING TEST AND NEGATIVE RESULT -TIME B/T SCREENING TEST AND ASSESSMENT -TIME B/T SCREENING EXAMINATIONS
25	ScCntrCd	Optional:Screening Centre code	String	20	Code of the Unit performing mammography No Unknown values admitted!	
26	Rmx_tech	Repeat mammography for technical reason	Number	1	-1=Unknown 0=no 1=yes	
27	No_views	No. of views	Number	2	-1 = Unknown	
28	Result1	Result 1st radiologist	Number	2	-1 = Unknown 1= Normal 2= Intermediate mammography 3= Technical recall 4= Further assessment	

29	Result2	Result 2 nd radiologist (if double reading)	Number	2	-1 = Unknown 1= Normal 2= Intermediate mammography 3= Technical recall 4= Further assessment	
30	Result3	Result 3 rd radiologist or consensus (if arbitration or consensus are employed)	Number	2	-1 = Unknown 1= Normal 2= Intermediate mammography 3= Technical recall 4= Further assessment	
31	Result	DEFINITIVE TEST RESULT (whatever method has been employed for determining the result)	Number	2	-1 = Unknown 0= screening test not performed and referred to assessment 1= Normal 2= Intermediate mammography 3= Technical recall 4= Further assessment	-FURTHER ASSESSMENT RATE -TECHNICAL RECALL RATE -INTERMEDIATE MAMMOGRAPHY RATE AFTER SCREENING -POSITIVE PREDICTIVE VALUE OF SCREENING TEST (PPV)
32	Dresult	Date result	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	TIME B/T SCREENING TEST AND NEGATIVE RESULT
33	Adv_IMX	Recommended intermediate mammography: time	Number	2	-1 = Unknown Months	
34	Adv_MX	Optional: Other views or magnification recommended	Number	1	-1 = Unknown 0 = NO 1 = YES	
35	Adv_ultr	Optional: Ultrasound recommended	Number	1	-1 = Unknown 0 = NO 1 = YES	
36	Other_im	Optional: Other imaging recommended	Number	1	-1 = Unknown 0 = NO 1 = YES	
37	Adv_c	Optional: Cytology recommended	Number	1	-1 = Unknown 0 = NO 1 = YES	
38	Adv_biop	Optional: Core-biopsy recommended	Number	1	-1 = Unknown 0 = NO 1 = YES	
39	OpenBiop	Optional: Open biopsy recommended	Number	1	-1 = Unknown 0 = NO 1 = YES	

ASSESSMENTS[+TREATMENTS] FILE⁶ (0 - N RECORDS PER EPISODE)⁷

N°	Database Variable name	Item	Format	Length	Notes	INDICATORS
40	Country_ID	ID Country	String	4	4 digits for national tel prefix. No NULL nor Unknown values admitted!	
41	Program_ID	ID Programme	String	4	3 digits for regional prefix or other programme code. No NULL nor Unknown values admitted!	
42	Id	Person ID code	String	25	No NULL nor Unknown values admitted!	
43	Episode	Patient episode No.	Number	2	Ordinal number of this episode (with or without test) within all episodes (with or without test) No NULL nor Unknown values admitted!	
44	Assrecno	Assessment record No. within this patient episode	Number	2	Ordinal number of this assessment within this episode. No NULL nor Unknown values admitted!	
45	WithTreatment ⁸	Is this assessment with treatment?	Number	1	-1 = Unknown 0 = NO 1 = YES	
46	D_1_fa	Date first further assessment examination	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	TIME B/T SCREENING TEST AND ASSESSMENT
47	No_assess	Number of assessment visits within this assessment record	Number	2	-1= Unknown	
48	Side	Side	Number	1	-1 = Unknown 0 = L 1 = R	

⁶ Additional examinations at the time of screening, intermediate mammography, and recall are all counted as assessment.

⁷ **Include only worst lesion**, if multiple synchronous lesions have been assessed. For determining the worst lesion use the following priorities: 1. invasive vs in situ, 2. stage, 3. size, 4. grade. Include all metachronous lesions.

⁸ A value NO for WithTreatment implies that all the treatment-related fields in the range 63-81 are NULL

49	Clin_ex	Clinical examination	Number	2	-1 = Unknown 0 = Not done 1= Not palpable 2= Palpable	FURTHER ASSESSMENT RATE FOR NON INVASIVE INVESTIGATIONS
	Cl_op	Clinical opinion	Number	2	-1 = Unknown 1 = normal 2 = benign 3 = suspicious of malignancy	
50	D_clinEx	Date	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
51	Fu_mx	Mammography	Number	2	-1 = Unknown 0= Not done 1= R1=Negative 2= R2=Benign 3= R3=Abnormality indetermined significance 4= R4=Suspicious of malignancy 5= R5=Malignant features	FURTHER ASSESSMENT RATE FOR NON INVASIVE INVESTIGATIONS
52	Dfumx	Date	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
53	Fu_ultra	Ultrasound	Number	2	-1 = Unknown 0= Not done 1= U1=Negative 2= U2=Benign 3= U3=Abnormality indetermined significance 4= U4=Suspicious of malignancy 5= U5=Malignant features	FURTHER ASSESSMENT RATE FOR NON INVASIVE INVESTIGATIONS
54	Dfuecho	Date	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
55	Fu_cyto	Citology	Number	2	-1 = Unknown 0 = Not performed 1= C1 = unsatisfactory 2= C2 = benign 3= C3 = atypia, probably benign	-FURTHER ASSESSMENT RATE FOR INVASIVE INVESTIGATIONS -POSITIVE PREDICTIVE VALUE

					4= C4 = suspicious for cancer 5= C5 = malignant	
56	Dfucyto	Date	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
57	Fu_cor	Core biopsy	Number	2	-1 = Unknown 0 = Not performed 1= B1 = unsatisfactory 2= B2 = benign 3= B3 = atypia, probably benign 4= B4 = suspicious for cancer 5= B5 = malignant	-FURTHER ASSESSMENT RATE FOR INVASIVE INVESTIGATIONS -POSITIVE PREDICTIVE VALUE
58	Dfucor	Date	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
59	Finres	FINAL RESULT OF ASSESSMENT	Number	2	-1=Unknown 1= Normal, back to routine screening 2= Intermediate mammography 3=Open surgical biopsy or Treatment 4=Incomplete assessment	INTERMEDIATE MAMMOGRAPHY RATE AFTER ASSESSMENT
60	Inter_mx	Recommended intermediate mammography: time	Number	2	Months -1=Unknown	
61	D_finres	Date final result	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
62	AsCntrCd	Optional: Assessment Centre or outside specialist code	String	20	No Unknown values admitted!	
63	Status	Status of this lesion in relation to other lesions in different episodes	Number	2	-1=Unknown 0=no other lesion 1=main lesion 2=metachronous lesion	

64	Cat_cas	Categories of cases	Number	2	-1=Unknown 1=screen detected 2=spontaneous presentation 3=interval 4=non-participant	POSITIVE PREDICTIVE VALUE
65	Diagnosis	Diagnosis	Number	2	-1=Unknown 1=benign 2=breast carcinoma 3=non-epithelial 4=metastasis in the breast 5=occult 6=inoperable breast cancer	-DETECTION RATE -BENIGN BIOPSES RATE -B/M RATIO -CONSERVATIVE SURGERY -POSITIVE PREDICTIVE VALUE OF SCREENING TEST -POSITIVE PREDICTIVE VALUE OF POSITIVE CYTOLOGY -POSITIVE PREDICTIVE VALUE OF MALIGNANT CORE BIOPSY -% STAGE 2+ AS A PROPORTION OF INVASIVE CANCERS -% NODE NEGATIVE CANCERS AS A PROPORTION OF INVASIVE CANCERS
	Invasion	Invasion	Number	2	-1=Unknown 1=ductal carcinoma in situ 2=lobular carcinoma in situ 3=in situ unknown type 4=microinvasive breast cancer 5=invasive breast cancer 6=invasive breast cancer with DCIS component	

66	PT	PT	Number	2	-1 = Unknown 1 = X, 2 = 0, 3 = IS, 4 = 1, 5 = 1A, 6 = 1B, 7 = 1C, 8 = 2, 9 = 3, 10 = 4, 11 = 4A, 12 = 4B, 13 = 4C, 14 = 4D, (TNM 5° ed., 1997) If microinvasive cancer (pT1mic) code 1A	-SMALL (≤10MM) INVASIVE CANCERS AS A PROPORTION OF INVASIVE CANCERS -% STAGE 2+
67	Path_siz	Pathological size (mm)	Number	3	Use -1 in case of unknown pathological size	SMALL (≤15MM) INVASIVE CANCERS AS A PROPORTION OF TOTAL SCREENED WOMEN
68	Lym_nod	Lymph nodes	Number	2	Code 1 if at least one node is positive: 0=negative 1=positive -1=unknown	-% NODE NEGATIVE CANCERS -% STAGE 2+
69	PN	PN	Number	2	-1 = Unknown 1 = X, 2 = 0, 3 = 1, 4 = 1A, 5 = 1B, 6 = 1B1, 7 = 1B2, 8 = 1B3, 9 = 1B4, 10 = 2, 11 = 3, (TNM 5° ed., 1997)	
70	No_nod	No. limph nodes examined	Number	2	-1 = Unknown	

	No_mts	No. positive limph nodes	Number	2	-1 = Unknown	
71	M	M	Number	2	-1 = Unknown 1 = X, 2 = 0, 3 = 1. Use for mts detected clinically or at pre-operative diagnosis.	
72	Stage	TNM Stage	Number	2	-1 = Unknown 1 = 0, 2 = I , 3 = IIA, 4 = IIB, 5 = IIIA, 6 = IIIB, 7 = IV UICC,TNM 5° Ed., 1997. Automated coding	
	Grade_inv	Grade of invasive component	Number	2	-1 = Unknown 0 = Not performed 1 = Grade 1 2 = Grade 2 3 = Grade 3	
	Grade_is	Grade of in situ component	Number	2	-1 = Unknown 0 = Not performed 1 = Grade 1 2 = Grade 2 3 = Grade 3	
	Type_inv	Histological type of invasive component	Number	2	-1 = Unknown 1 ductal NST 2 lobular 3 medullary 4 mucinous 5 tubular, cribriform 6 mixed ductal, lobular 7 mixed ductal NST + other 8 mixed tubular, lobular 9 metastatic 10 other	

73	Fst_ther	Type of first therapy	Number	2	-1= Unknown 1= surgery 2= radiotherapy 3= chemotherapy 4= radio+chemotherapy	
74	SrgDptCd	Optional: Surgical Dept Code (First surgery)	String	20	No Unknown values admitted !	
75	Type_op	Type of operation	Number	2	-1= Unknown 0= not operated 1= excision biopsy or lumpectomy 2= wide excision 3= quadrantectomy 4= mastectomy - subcutaneous 5= mastectomy - simple 6= mastectomy - NOS 7= other	CONSERVATIVE SURGERY
76	Dpt_rltd	Optional: is this Dpt related to the screening programme?	Number	1	-1 = Unknown 0 = NO 1 = YES	
77	Dfst_su	Date of first surgery	Date (dd/mm/yyyy)	10	01/01/0001 = Unknown	
78	Axil	Axillary surgery	Number	2	-1= Unknown 0= not performed 1= performed, sln only 2= performed, sampling 3= performed, dissection (any level)	
79	Chemo	Optional: CHT performed	Number	1	-1 = Unknown 0 = NO 1 = YES	
80	Hormo	Optional: Hormonotherapy performed	Number	1	-1 = Unknown 0 = NO 1 = YES	
81	Rt	Optional: RT performed	Number	1	-1 = Unknown 0 = NO 1 = YES	