

Breast Cancer (BC) Is a Window of Opportunity for Smoking Cessation: Results of a Retrospective Analysis of 1234 BC Survivors in Follow-Up Consultation

Marion Nicolas, Beatriz Grandal, Emma Dubost, Aryn Kassara, Julien Guerin, Aullene Toussaint, Enora Laas, Jean-Guillaume Feron, Virginie Fourchette, Fabrice Lecuru, Noemie Girard, Florence Coussy, Beatrice Lavielle, Irene Kriegel, Youlia Kirova, Jean-Yves Pierga, Fabien Rey and Anne-Sophie Hamy

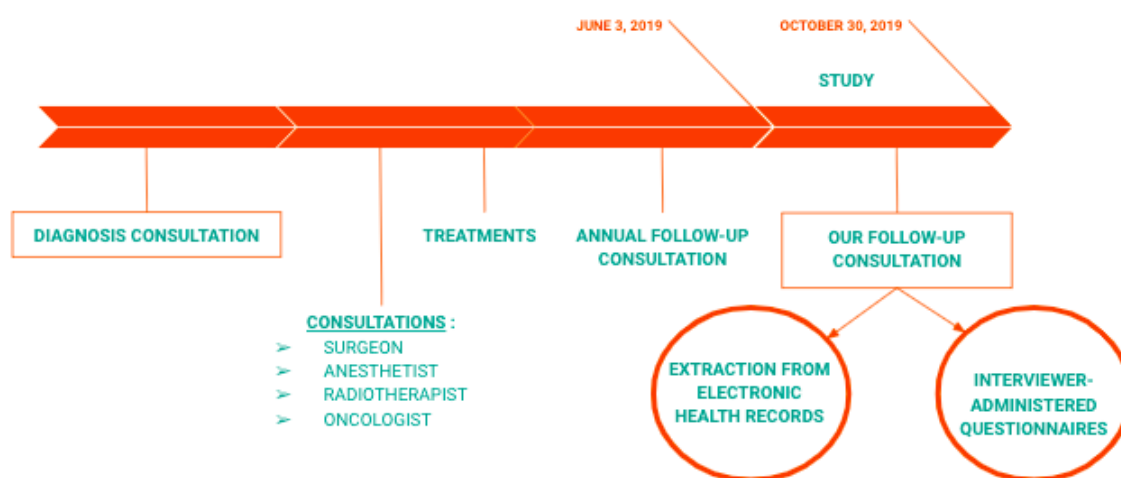


Figure S1. The patient's pathway since breast cancer diagnosis to follow-up consultation.

#	Variable / Field Name	Field Label <i>Field Note</i>	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)																						
Instrument: Questionnaire Tabac (questionnaire_tabac) ⌵ Collapse																									
1	record_id	IPP	text, Identifier																						
2	date_consult	Consultation day	text (date_dmy, Min: 2019-05-01), Required																						
3	dat_birth	Birth date	text (date_dmy, Min: 1920-01-01)																						
4	habitus	Habitus	notes																						
5	niv_etu	Highest educationnal level	dropdown <table><tr><td>1</td><td>never been enrolled</td></tr><tr><td>2</td><td>elementary school</td></tr><tr><td>3</td><td>no degree but enrolled until after elementary school</td></tr><tr><td>4</td><td>primary school certificate</td></tr><tr><td>5</td><td>college diploma</td></tr><tr><td>6</td><td>certificate of professional competence</td></tr><tr><td>7</td><td>professional teaching certificate</td></tr><tr><td>8</td><td>general baccalaureate</td></tr><tr><td>9</td><td>technological baccalaureate</td></tr><tr><td>10</td><td>first degree diploma</td></tr><tr><td>11</td><td>second or third degree diploma</td></tr></table>	1	never been enrolled	2	elementary school	3	no degree but enrolled until after elementary school	4	primary school certificate	5	college diploma	6	certificate of professional competence	7	professional teaching certificate	8	general baccalaureate	9	technological baccalaureate	10	first degree diploma	11	second or third degree diploma
1	never been enrolled																								
2	elementary school																								
3	no degree but enrolled until after elementary school																								
4	primary school certificate																								
5	college diploma																								
6	certificate of professional competence																								
7	professional teaching certificate																								
8	general baccalaureate																								
9	technological baccalaureate																								
10	first degree diploma																								
11	second or third degree diploma																								
6	csp	Profession at diagnosis	dropdown <table><tr><td>1</td><td>Agriculture, forestry, fishing</td></tr><tr><td>2</td><td>Energy Industry</td></tr><tr><td>3</td><td>Others industries</td></tr><tr><td>4</td><td>Construction</td></tr><tr><td>5</td><td>Trade</td></tr><tr><td>6</td><td>Education, health, social work</td></tr><tr><td>7</td><td>Other service</td></tr><tr><td>8</td><td>None</td></tr><tr><td>9</td><td>Retired</td></tr></table>	1	Agriculture, forestry, fishing	2	Energy Industry	3	Others industries	4	Construction	5	Trade	6	Education, health, social work	7	Other service	8	None	9	Retired				
1	Agriculture, forestry, fishing																								
2	Energy Industry																								
3	Others industries																								
4	Construction																								
5	Trade																								
6	Education, health, social work																								
7	Other service																								
8	None																								
9	Retired																								
7	age_at_surg	Age	calc Calculation: round(datediff([date_chir], [dat_birth], "y", "dmy"), 0)																						
8	weight	Weight	text (number, Min: 35, Max: 190)																						
9	size	Size	text (number, Min: 100, Max: 210)																						
10	stat_mar	Marital status	dropdown <table><tr><td>1</td><td>single</td></tr><tr><td>2</td><td>couple</td></tr><tr><td>3</td><td>married</td></tr><tr><td>4</td><td>divorced</td></tr><tr><td>5</td><td>widow</td></tr></table>	1	single	2	couple	3	married	4	divorced	5	widow												
1	single																								
2	couple																								
3	married																								
4	divorced																								
5	widow																								
11	tobac_mention	Tobacco mentionned in the medical report	yesno <table><tr><td>1</td><td>Yes</td></tr><tr><td>0</td><td>No</td></tr></table>	1	Yes	0	No																		
1	Yes																								
0	No																								
12	tabac_life	Tobacco (at least 100 cig in life)	yesno, Required <table><tr><td>1</td><td>Yes</td></tr><tr><td>0</td><td>No</td></tr></table>	1	Yes	0	No																		
1	Yes																								
0	No																								

	13	smoking	Currently smoking	yesno 1 Yes 0 No
	14	tobac_diag Show the field ONLY if: [tabac_life] = '1'	Tobacco at diagnosis	yesno 1 Yes 0 No
	15	age_tobac_start Show the field ONLY if: [tabac_life] = '1'	Age of tobacco beginning	text (integer, Min: 8, Max: 80)
	16	tobac_years Show the field ONLY if: [tabac_life] = '1'	Number of year of smoking	text (integer)
	17	nb_cig_life Show the field ONLY if: [tabac_life] = '1'	Average number of cig per day	text (integer, Min: 1, Max: 100)
	18	age_tobac_stop Show the field ONLY if: [tobac_diag] = '0'	Age at smoking cessation	text (integer, Min: 10, Max: 100)
	19	recent_smoker Show the field ONLY if: [tobac_diag] = '0'	Smoking cessation during the year before diagnosis	yesno 1 Yes 0 No
	20	alcohol	Alcohol (nb glasses / week)	text (integer, Min: 0, Max: 25)
	21	drogue	Drugs (cannabis, others, etc)	dropdown 0 currently 1 ever 2 never
	22	comm_drogue Show the field ONLY if: [drogue] = '0' or [drogue] = '1'	Comments about drugs	notes
	23	sport	Physical activity	yesno 1 Yes 0 No
	24	comm_sport Show the field ONLY if: [sport] = '1'	Duration of daily physical activity	checkbox 1 comm_sport__1 < 30 min/d 2 comm_sport__2 > 30 min/d
	25	in_situ_exclus	In situ exclusive carcinoma	yesno 1 Yes 0 No
	26	statut_tn	Clinical status	text
	27	type_histo Show the field ONLY if: [in_situ_exclus] = '0'	Histological type	checkbox 0 type_histo__0 CCI 1 type_histo__1 CLI 2 type_histo__2 CCIS 3 type_histo__3 CLIS 4 type_histo__4 Others
	28	bifocal	Multifocal	yesno 1 Yes 0 No
	29	rec_est Show the field ONLY if: [in_situ_exclus] = '0'	Estrogen receptors	checkbox 0 rec_est__0 positive 1 rec_est__1 negative 2 rec_est__2 na

	30	recep_prog Show the field ONLY if: [in_situ_exclus] = '0'	Progesterone receptors	checkbox <table><tr><td>0</td><td>recep_prog__0</td><td>positive</td></tr><tr><td>1</td><td>recep_prog__1</td><td>negative</td></tr><tr><td>2</td><td>recep_prog__2</td><td>na</td></tr></table>	0	recep_prog__0	positive	1	recep_prog__1	negative	2	recep_prog__2	na									
0	recep_prog__0	positive																				
1	recep_prog__1	negative																				
2	recep_prog__2	na																				
	31	stat_her2 Show the field ONLY if: [in_situ_exclus] = '0'	Her2 status	checkbox <table><tr><td>0</td><td>stat_her2__0</td><td>positive</td></tr><tr><td>1</td><td>stat_her2__1</td><td>negative</td></tr><tr><td>2</td><td>stat_her2__2</td><td>na</td></tr></table>	0	stat_her2__0	positive	1	stat_her2__1	negative	2	stat_her2__2	na									
0	stat_her2__0	positive																				
1	stat_her2__1	negative																				
2	stat_her2__2	na																				
	32	grade Show the field ONLY if: [in_situ_exclus] = '0'	Histological grade	checkbox <table><tr><td>0</td><td>grade__0</td><td>1</td></tr><tr><td>1</td><td>grade__1</td><td>2</td></tr><tr><td>2</td><td>grade__2</td><td>3</td></tr><tr><td>3</td><td>grade__3</td><td>na</td></tr></table>	0	grade__0	1	1	grade__1	2	2	grade__2	3	3	grade__3	na						
0	grade__0	1																				
1	grade__1	2																				
2	grade__2	3																				
3	grade__3	na																				
	33	embole Show the field ONLY if: [in_situ_exclus] = '0'	Embolus	checkbox <table><tr><td>0</td><td>embole__0</td><td>yes</td></tr><tr><td>1</td><td>embole__1</td><td>no</td></tr><tr><td>2</td><td>embole__2</td><td>na</td></tr></table>	0	embole__0	yes	1	embole__1	no	2	embole__2	na									
0	embole__0	yes																				
1	embole__1	no																				
2	embole__2	na																				
	34	nb_gg Show the field ONLY if: [in_situ_exclus] = '0'	Number of positive nodes	text (integer, Min: 0, Max: 100)																		
	35	ttt_kr	Treatment type	checkbox <table><tr><td>0</td><td>ttt_kr__0</td><td>surgery</td></tr><tr><td>1</td><td>ttt_kr__1</td><td>chemotherapy</td></tr><tr><td>2</td><td>ttt_kr__2</td><td>radiotherapy</td></tr><tr><td>3</td><td>ttt_kr__3</td><td>trastuzumab</td></tr><tr><td>4</td><td>ttt_kr__4</td><td>endocrine therapy</td></tr><tr><td>5</td><td>ttt_kr__5</td><td>breast reconstruction</td></tr></table>	0	ttt_kr__0	surgery	1	ttt_kr__1	chemotherapy	2	ttt_kr__2	radiotherapy	3	ttt_kr__3	trastuzumab	4	ttt_kr__4	endocrine therapy	5	ttt_kr__5	breast reconstruction
0	ttt_kr__0	surgery																				
1	ttt_kr__1	chemotherapy																				
2	ttt_kr__2	radiotherapy																				
3	ttt_kr__3	trastuzumab																				
4	ttt_kr__4	endocrine therapy																				
5	ttt_kr__5	breast reconstruction																				
	36	hormono_neo Show the field ONLY if: [ttt_kr(4)] = '1'	Neoadjuvant endocrine therapy	yesno <table><tr><td>1</td><td>Yes</td></tr><tr><td>0</td><td>No</td></tr></table>	1	Yes	0	No														
1	Yes																					
0	No																					
	37	date_hormono Show the field ONLY if: [hormono_neo] = '1'	Start date for neoadjuvant endocrine therapy	text (date_dmy)																		
	38	seq_chimio Show the field ONLY if: [ttt_kr(1)] = '1'	Chemotherapy sequence	dropdown <table><tr><td>0</td><td>neoadjuvant</td></tr><tr><td>1</td><td>adjuvant</td></tr><tr><td>2</td><td>neoadjuvant and adjuvant</td></tr></table>	0	neoadjuvant	1	adjuvant	2	neoadjuvant and adjuvant												
0	neoadjuvant																					
1	adjuvant																					
2	neoadjuvant and adjuvant																					
	39	date_chimio Show the field ONLY if: [seq_chimio] = '0'	Start date for neoadjuvant chemotherapy	text (date_dmy)																		
	40	taille_infiltrant Show the field ONLY if: [ttt_kr(0)] = '1' or [ttt_kr(2)] = '1' or [ttt_kr(3)] = '1' or [ttt_kr(4)] = '1' or [seq_chimio] = '1'	Tumor size (mm)	text (integer, Min: 0, Max: 250)																		
	41	reponse_cna Show the field ONLY if: [seq_chimio] = '0' or [seq_chi mio] = '2'	Neoadjuvant chemotherapy result	dropdown <table><tr><td>0</td><td>pCR with in situ remaining</td></tr><tr><td>1</td><td>pCR (pathological complete response)</td></tr><tr><td>2</td><td>no pCR</td></tr></table>	0	pCR with in situ remaining	1	pCR (pathological complete response)	2	no pCR												
0	pCR with in situ remaining																					
1	pCR (pathological complete response)																					
2	no pCR																					
	42	chir Show the field ONLY if: [ttt_kr(0)] = '1'	Surgery type	dropdown <table><tr><td>0</td><td>lumpectomy</td></tr><tr><td>1</td><td>mastectomy</td></tr><tr><td>2</td><td>immediate breast reconstruction</td></tr></table>	0	lumpectomy	1	mastectomy	2	immediate breast reconstruction												
0	lumpectomy																					
1	mastectomy																					
2	immediate breast reconstruction																					

	43	date_chir Show the field ONLY if: [ttt_kr(0)] = '1'	Surgery date	text (date_dmy, Min: 1960-01-01)
	44	reconst Show the field ONLY if: [chir] = '1'	Postponed breast reconstruction	yesno 1 Yes 0 No
	45	anes_tabac Show the field ONLY if: [tabac_diag] = '1' and [ttt_kr(0)] = '1'	Smoking status asked by anesthesiologist	yesno 1 Yes 0 No
	46	info_tabac_anes Show the field ONLY if: [anes_tabac] = '1'	Info smoking anesth	checkbox 0 info_tabac_anes__0 info complications 1 info_tabac_anes__1 info cessation needed 2 info_tabac_anes__2 advises and orientation
	47	chir_tabac Show the field ONLY if: [tabac_diag] = '1' and [ttt_kr(0)] = '1'	Smoking status asked by surgeon	yesno 1 Yes 0 No
	48	info_tabac_chir Show the field ONLY if: [chir_tabac] = '1'	info smoking surgeon	checkbox 0 info_tabac_chir__0 info complications 1 info_tabac_chir__1 info cessation needed 2 info_tabac_chir__2 advises and orientation
	49	rt_tabac Show the field ONLY if: [ttt_kr(2)] = '1' and [tabac_diag] = '1'	Smoking status asked by radiotherapist	yesno 1 Yes 0 No
	50	info_tabac_rt Show the field ONLY if: [rt_tabac] = '1'	Info smoking RT	checkbox 0 info_tabac_rt__0 info complications 1 info_tabac_rt__1 info cessation needed 2 info_tabac_rt__2 advises and orientation
	51	onco_tabac Show the field ONLY if: ([ttt_kr(1)] = '1' and [tabac_diag] = '1' or [ttt_kr(3)] = '1' and [tabac_diag] = '1')	Smoking status asked by oncologist	yesno 1 Yes 0 No
	52	info_tabac_onco Show the field ONLY if: [onco_tabac] = '1'	Info smoking onco	checkbox 0 info_tabac_onco__0 info complications 1 info_tabac_onco__1 info cessation needed 2 info_tabac_onco__2 advises and orientation
	53	moyen_sevrage Show the field ONLY if: [info_tabac_chir(2)] = '1' or [info_tabac_anes(2)] = '1' or [info_tabac_rt(2)] = '1' or [info_tabac_onco(2)] = '1'	Methods used for smoking cessation	checkbox 0 moyen_sevrage__0 tobacco consultation 1 moyen_sevrage__1 psychological support 2 moyen_sevrage__2 cognitive behavioral therapy 3 moyen_sevrage__3 nicotine substitutes 4 moyen_sevrage__4 pharmaco 5 moyen_sevrage__5 hypnosis 6 moyen_sevrage__6 acupuncture
	54	tabac_surv	Tobacco status	dropdown 0 current 1 cessation before diagnosis 2 cessation at diagnosis 3 never
	55	duree_sevrage Show the field ONLY if: [tabac_surv] = '2'	How many month without smoking since diagnosis	text (integer, Min: 1, Max: 200)

	56	nb_cig_surv Show the field ONLY if: [tabac_surv] = '0'	Average number of cig /d	text (integer, Min: 1, Max: 50)																								
	57	methode_sevrage Show the field ONLY if: [tabac_surv] = '2'	Methods used for smoking cessation	<table><tr><td colspan="3">checkbox</td></tr><tr><td>0</td><td>methode_sevrage__0</td><td>tobacco consultation</td></tr><tr><td>1</td><td>methode_sevrage__1</td><td>psychological support</td></tr><tr><td>2</td><td>methode_sevrage__2</td><td>cognitive behavioral therapy</td></tr><tr><td>3</td><td>methode_sevrage__3</td><td>nicotine substitutes</td></tr><tr><td>4</td><td>methode_sevrage__4</td><td>pharmaco</td></tr><tr><td>5</td><td>methode_sevrage__5</td><td>hypnosis</td></tr><tr><td>6</td><td>methode_sevrage__6</td><td>acupuncture</td></tr></table>	checkbox			0	methode_sevrage__0	tobacco consultation	1	methode_sevrage__1	psychological support	2	methode_sevrage__2	cognitive behavioral therapy	3	methode_sevrage__3	nicotine substitutes	4	methode_sevrage__4	pharmaco	5	methode_sevrage__5	hypnosis	6	methode_sevrage__6	acupuncture
checkbox																												
0	methode_sevrage__0	tobacco consultation																										
1	methode_sevrage__1	psychological support																										
2	methode_sevrage__2	cognitive behavioral therapy																										
3	methode_sevrage__3	nicotine substitutes																										
4	methode_sevrage__4	pharmaco																										
5	methode_sevrage__5	hypnosis																										
6	methode_sevrage__6	acupuncture																										
	58	motivation_sevrage Show the field ONLY if: [tabac_surv] = '2'	Motivation for smoking cessation	<table><tr><td colspan="3">checkbox</td></tr><tr><td>0</td><td>motivation_sevrage__0</td><td>recurrence or other cancer fear</td></tr><tr><td>1</td><td>motivation_sevrage__1</td><td>complications fear</td></tr><tr><td>2</td><td>motivation_sevrage__2</td><td>breast reconstruction desire</td></tr><tr><td>3</td><td>motivation_sevrage__3</td><td>other"</td></tr></table>	checkbox			0	motivation_sevrage__0	recurrence or other cancer fear	1	motivation_sevrage__1	complications fear	2	motivation_sevrage__2	breast reconstruction desire	3	motivation_sevrage__3	other"									
checkbox																												
0	motivation_sevrage__0	recurrence or other cancer fear																										
1	motivation_sevrage__1	complications fear																										
2	motivation_sevrage__2	breast reconstruction desire																										
3	motivation_sevrage__3	other"																										
	59	autre_motivation_sevrage Show the field ONLY if: [motivation_sevrage(3)] = '1'	Other motivation for smoking cessation	notes																								
	60	recidiv_cancer	Recurrence after treatment	<table><tr><td colspan="2">yesno</td></tr><tr><td>1</td><td>Yes</td></tr><tr><td>0</td><td>No</td></tr></table>	yesno		1	Yes	0	No																		
yesno																												
1	Yes																											
0	No																											
	61	poids_actuel	Actual weight	text (number, Min: 0, Max: 200)																								
	62	comment	Comments	notes																								
	63	questionnaire_tabac_complet e	Section Header: <i>Form Status</i> Complete?	<table><tr><td colspan="2">dropdown</td></tr><tr><td>0</td><td>Incomplete</td></tr><tr><td>1</td><td>Unverified</td></tr><tr><td>2</td><td>Complete</td></tr></table>	dropdown		0	Incomplete	1	Unverified	2	Complete																
dropdown																												
0	Incomplete																											
1	Unverified																											
2	Complete																											

Figure S2. Interviewer-administered questionnaires based on a codebook.

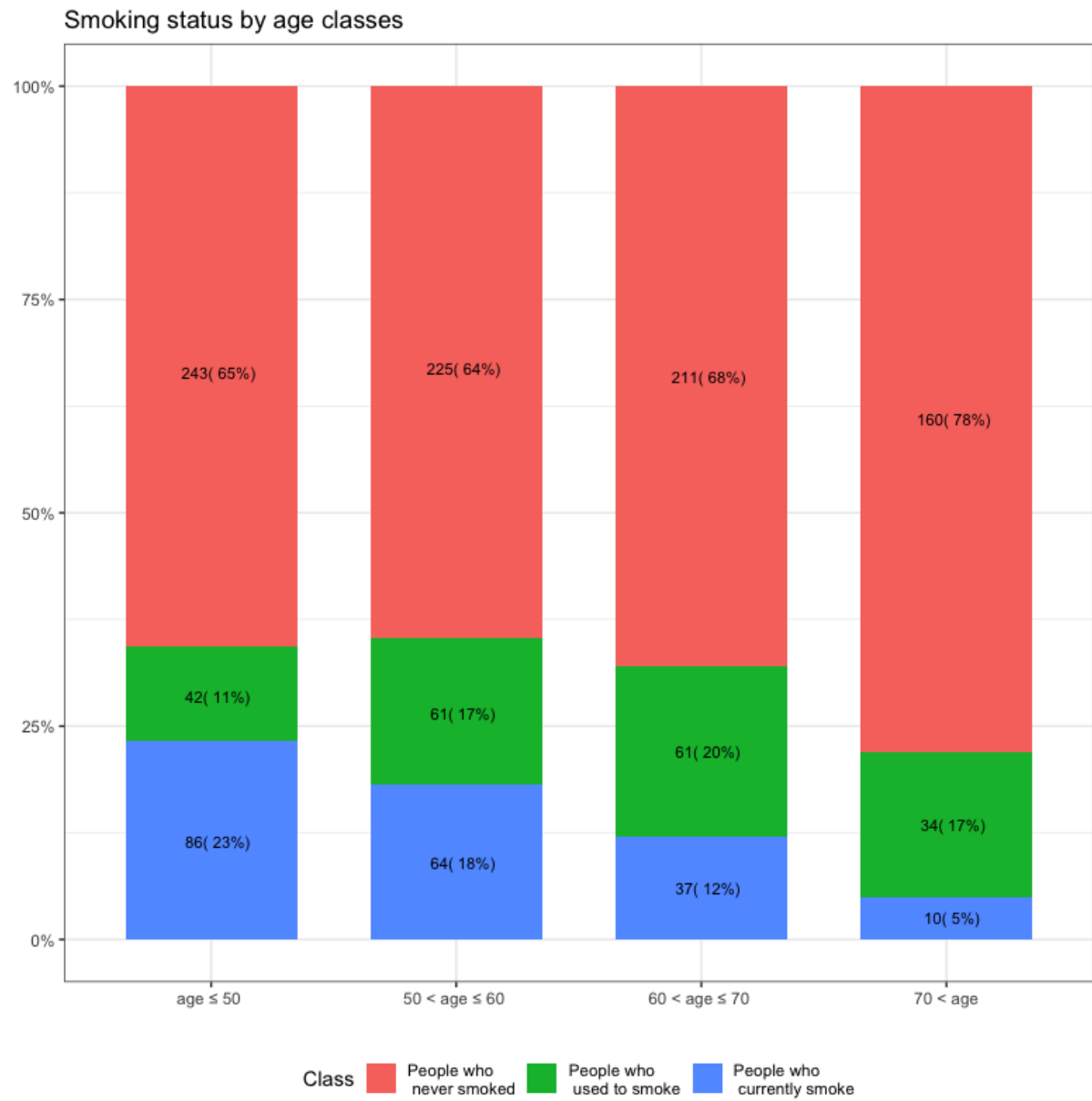


Figure S3. Smoking status according by age classes.

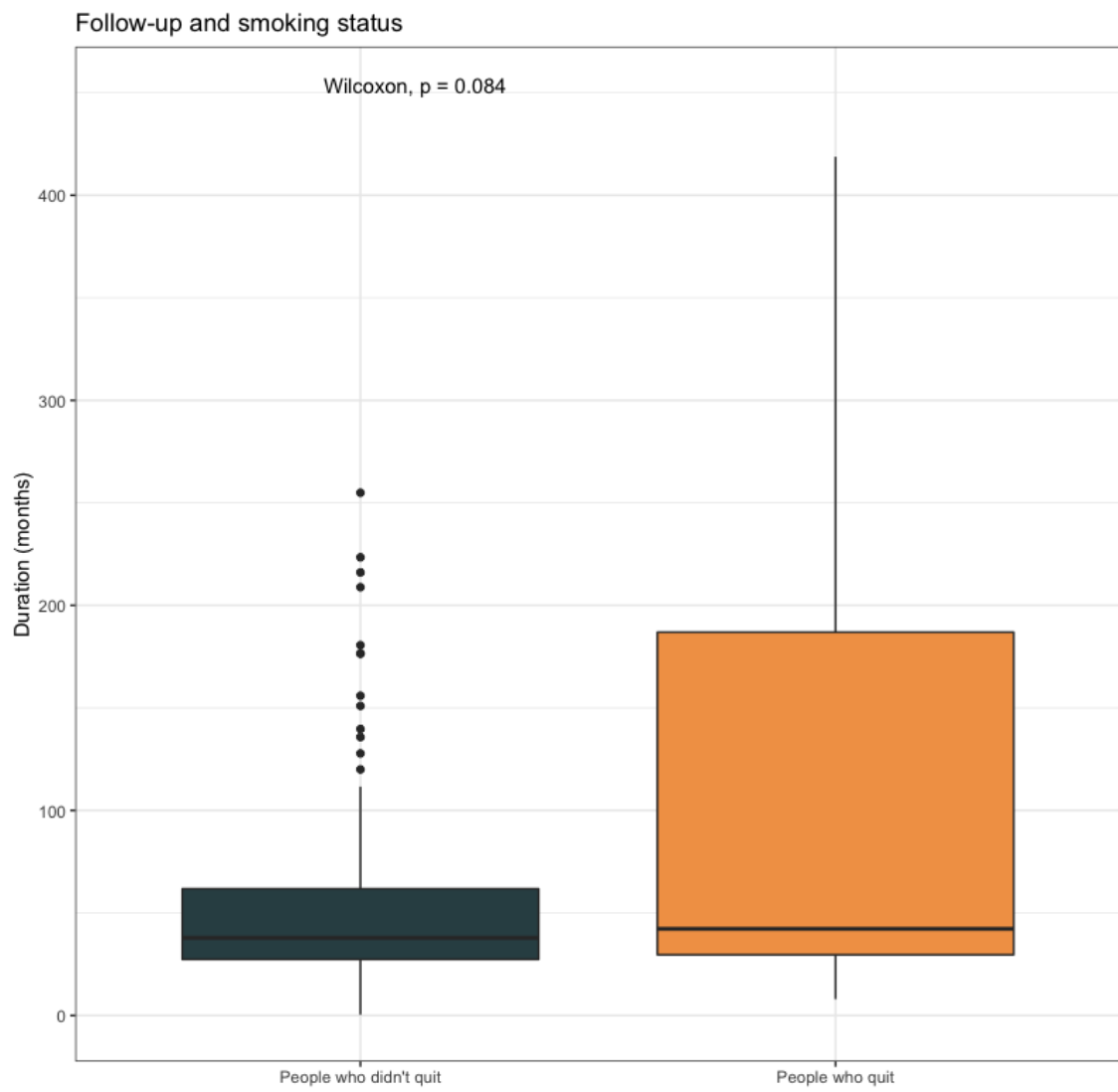


Figure S4. Patient follow-up durations according to smoking cessation status after diagnosis.

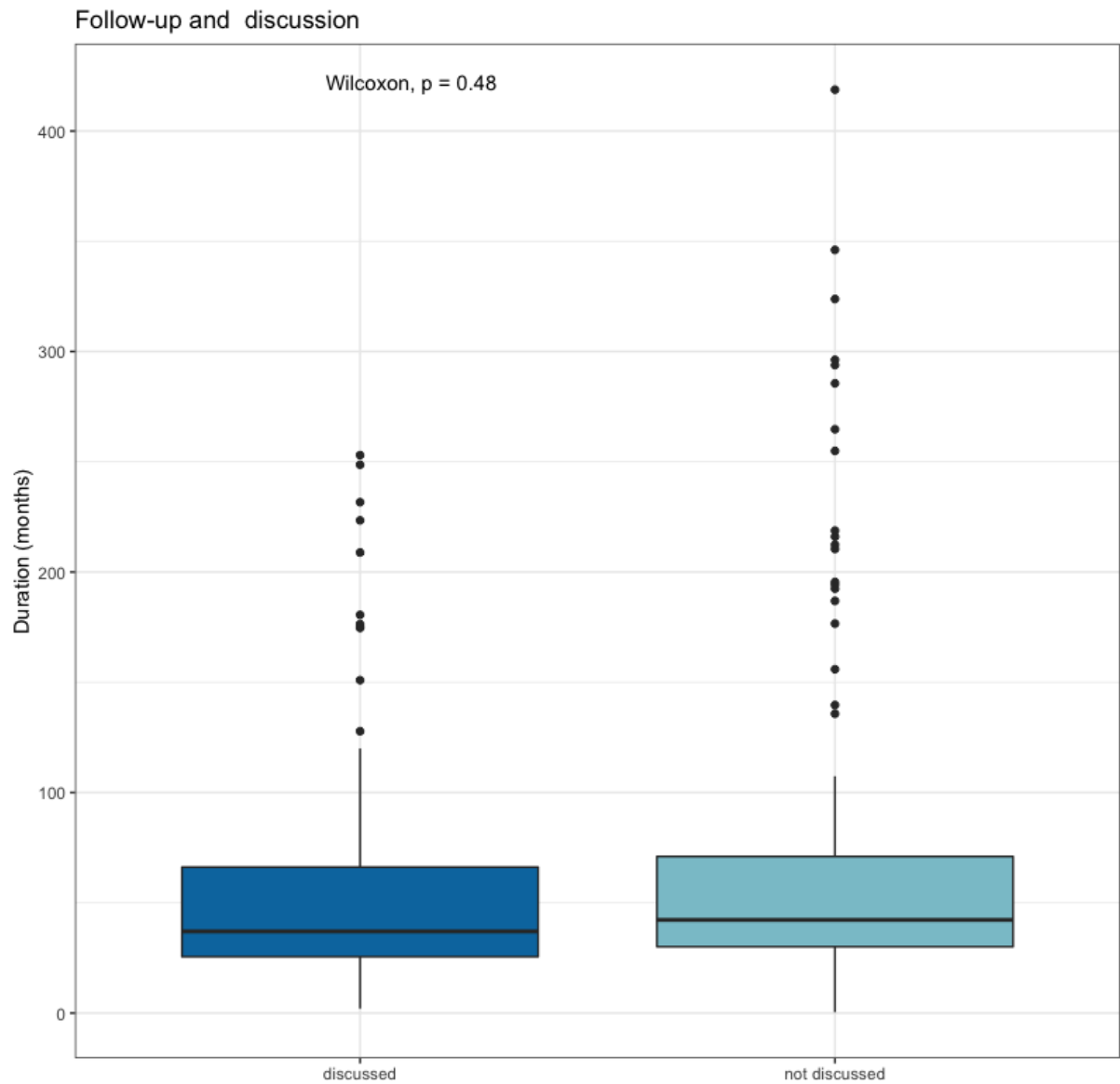


Figure S5. Patient follow-up durations according to the likelihood of discussing tobacco consumption in follow-up consultations.

Table S1. Patients' characteristics among the whole population and according to tobacco status at the time of BC diagnosis.

	Whole Population	Patients Who Currently Smoke	Patients Who Used To Smoke	Patients Who Never Smoked	p-Value
n	1234(100%)	197(16%)	198(16%)	839(68%)	
Age (years)	58.0 (12.2)	52.7 (10.4)	60.2 (10.9)	58.7 (12.6)	< 0.001
BMI (kg/m ²)	24.5 (4.7)	23.3 (4.2)	25.1 (4.7)	24.7 (4.8)	< 0.001
Underweight	59(4.8%)	15(7.6%)	6(3.0%)	38(4.5%)	
Normal	692(56.0%)	126(64.0%)	108(54.5%)	458(54.6%)	
Overweight	335(27.1%)	42(21.3%)	60(30.3%)	233(27.8%)	
Obese	148(12.0%)	14(7.1%)	24(12.1%)	110(13.1%)	
Smoking patterns					
Age at onset	18 [17.0, 20.0]	18 [17.0, 20.0]	18.0 [16.0, 21.0]	None	0.413
Duration	27.4 (15.2)	35.6 (12.7)	19.5 (13.1)	None	<0.001
Amount (cig/day)	13.8 (9.6)	12.8 (8.0)	14.9 (10.8)	None	0.062
Alcohol consumption					< 0.001
Yes	398(32.3%)	78(39.6%)	81(40.9%)	239(28.5%)	
Amount (glass/week)	5.3(5.1)	6.2(5.8)	6.3(5.9)	4.6(4.6)	
No	836(67.7%)	119(60.4%)	117(59.1%)	600(71.4%)	
Drugs (Cannabis or other)					< 0.001
Current	4(0.3%)	4(2.1%)	0(0.0%)	0(0.0%)	
Ever	12(1.0%)	5(2.6%)	5(2.6%)	2(0.2%)	
Never	1211(98.7%)	186(95.4%)	191(97.4%)	834(99.8%)	
Physical activity					0.022
Yes	672(54.5%)	91(46.2%)	116(58.6%)	465(55.4%)	
More than 30min/day	308(45.8%)	44(48.3%)	50(43.1%)	214(46.0%)	
Less than 30min/day	364(54.2%)	47(51.7%)	66(56.9%)	251(54.0%)	
No	537(43.5%)	103(52.3%)	80(40.4%)	354(42.2%)	
Cancer type					0.941
DCIS	180(14.6%)	34(17.3%)	27(13.6%)	119(14.2%)	
NST	814(66.0%)	126(64.0%)	133(67.2%)	555(66.2%)	
Lobular	155(12.6%)	25(12.7%)	25(12.6%)	105(12.5%)	
Other	82(6.6%)	12(6.1%)	13(6.6%)	57(6.8%)	
Cancer subtype					0.171
Luminal	841(85.2%)	131(88.5%)	143(88.5%)	567(83.6%)	
TNBC	69(7.0%)	7(4.7%)	11(6.8%)	51(7.5%)	
Her2 positive	77(7.8%)	10(6.8%)	7(4.3%)	60(8.8%)	
Tumoral grade					0.110
1	250(20.3%)	45(22.8%)	49(24.7%)	156(18.6%)	
2	576(46.7%)	88(44.7%)	88(44.4%)	400(47.7%)	
3	187(15.2%)	21(10.7%)	27(13.6%)	139(16.6%)	
Treatment					
Surgery	1234(100.0%)	197(100.0%)	198(100.0%)	839(100.0%)	0.741
Mastectomy	283(23.0%)	47(23.9%)	43(21.8%)	193(23.0%)	
Lumpectomy	892(72.4%)	144(73.1%)	146(74.1%)	602(71.8%)	
IBR	57(4.6%)	6(3.0%)	8(4.1%)	43(5.1%)	
Radiotherapy					0.269
Yes	991(80.4%)	164(83.2%)	164(82.8%)	663(79.1%)	
No	242(19.6%)	33(16.8%)	34(17.2%)	175(20.9%)	
Chemotherapy					0.247
Yes	315(25.5%)	45(22.8%)	44(22.2%)	226(27.0%)	
No	918(74.5%)	152(77.2%)	154(77.8%)	612(73.0%)	
Hormone therapy					0.688
Yes	789(64.0%)	121(61.4%)	126(63.6%)	542(64.7%)	
No	444(36.0%)	76(38.6%)	72(36.4%)	296(35.3%)	
Breast reconstruction					0.225
Yes	69(5.6%)	16(8.1%)	9(4.5%)	44(5.3%)	
No	1164(94.4%)	181(91.9%)	189(95.5%)	794(94.7%)	

Missing data: Drugs, $n = 7$ (0.6%); Physical activity, $n = 25$ (2%); Cancer Type, $n = 3$ (0.2%); Cancer subtype, $n = 67$ (6%); Tumoral grade, $n = 41$ (3.9%); Surgery, $n = 2$ (0.2%); Radiotherapy, $n = 1$ (0.08%); Chemotherapy, $n = 1$ (0.08%); Hormone therapy, $n = 1$ (0.08%); Breast reconstruction, $n = 1$ (0.08%). Abbreviations: BC, breast cancer; BMI, body mass index; DCIS, ductal carcinoma in situ; NST, no special type; TNBC, triple negative breast cancer; IBR, immediate breast reconstruction. The “ n ” denotes the number of patients. In the case of categorical variables, percentages are expressed between brackets. In the case of continuous variables, the mean value is reported, with standard deviation (SD) between brackets. In the case of non-normal continuous variables, the median value is reported, with interquartile range between brackets (IQR).

Table S2. Characteristics of patients who currently smoke according to smoking assessment by health care professionals at the time of BC diagnosis.

	Patients Who Currently Smoke	Discussed	Not Discussed	p-Value
<i>n</i>	197(100%)	78(39.6%)	119(60.4%)	
Age (years)	52.7(10.4)	51.6(10.5)	53.5(10.4)	0.226
BMI (kg/m2)	23.3(4.2)	23.0(3.8)	23.6(4.4)	0.362
Underweight				0.050
Yes	15(7.6%)	10(12.8%)	5(4.2%)	
No	182(92.4%)	68(87.2%)	114(95.8%)	
Smoking patterns				
Age at onset	18.0 [17.0, 20.0]	19.0 [16.0, 22.0]	18.0 [17.0, 20.0]	0.849
Duration(years)	35.6 (12.7%)	33.5 (13.0%)	36.8 (12.3%)	0.083
Amount(cig/day)	12.8 (8.0)	13.8 (8.3)	12.1 (7.8)	0.129
Cancer type				
DCIS	34(17.3%)	7(9%)	27(22.7%)	
NST	126(64.0%)	56(71.8%)	70(58.8%)	
Lobular	25(12.7%)	10(12.8%)	15(12.6%)	
Other	12(6.1%)	5(6.4%)	7(5.9%)	
Cancer subtype				
Luminal	131(88.5%)	60(89.6%)	71(87.7%)	0.931
TNBC	7(4.7%)	3(4.5%)	4(4.9%)	
Her2 positive	10(6.8%)	4(6.0%)	6(7.4%)	

Missing data: Cancer subtype, *n* = 15 (9.2%). Abbreviations: BC, breast cancer; BMI, body mass index; DCIS, ductal carcinoma in situ; NST, no special type; TNBC, triple negative breast cancer. The “*n*” denotes the number of patients. In the case of categorical variables, percentages are expressed between brackets. In the case of continuous variables, the mean value is reported, with standard deviation (SD) between brackets. In the case of non-normal continuous variables, the median value is reported, with interquartile range between brackets (IQR).

Table S3. Characteristics of patients who currently smoke at BC diagnosis according to smoking cessation status.

	Patients Who Currently Smoke at Diagnosis	Patients Who Had Not Quit	Patients Who Had Quit	<i>p</i> -Value
<i>n</i>	197(100%)	132(67%)	65(33%)	
Age	52.7 (10.4)	53.2 (11.2)	51.8 (8.7)	0.360
BMI at Diagnosis (kg/m2)	23.3 (4.2)	23.3 (4.6)	23.3 (3.4)	0.973
Normal	126 (64.0%)	79 (59.8%)	47 (72.3%)	
Obese	14 (7.1%)	10 (7.6%)	4 (6.2%)	
Overweight	42 (21.3%)	30 (22.7%)	12 (18.5%)	
Underweight	15 (7.6%)	13 (9.8%)	2 (3.1%)	
BMI at Inclusion (kg/m2)	24.5 (4.7)	24.5 (5.2)	24.6 (3.8)	0.921
Normal	106(53.8%)	70(53.0%)	36(55.4%)	
Obese	23(11.7%)	17(12.9%)	6(9.2%)	
Overweight	58(29.4%)	39(29.5%)	19(29.2%)	
Underweight	9(4.6%)	6(4.5%)	3(4.6%)	
Weight difference (kgs)	+ 2.7 (6.0)	+ 2.1 (5.9)	+ 3.9 (6.0)	0.106
Smoking patterns				
Age at onset	18.0 [17.0, 20.0]	18.0 [17.0, 20.0]	18.0 [16.0, 21.0]	0.773
Duration	35.6 (12.7)	36.3 (12.8)	34.3 (12.4)	0.308
Amount (cig/day)	12.8 (8.0)	13.1 (8.2)	12.1 (7.8)	0.396
Alcohol consumption				
Yes	78(39.6%)	50(37.9%)	28(43.1%)	
Amount (glass/week)	6.2 (5.8)	6.9 (5.3)	4.9 (5.8)	0.006
No	119(60.4%)	82(62.1%)	37(56.9%)	
Drugs (Cannabis or other)				
Current	4(2.1%)	3(2.3%)	1(1.6%)	0.892
Ever	5(2.6%)	3(2.3%)	2(3.1%)	
Never	186(95.4%)	125 (95.4%)	61(95.3%)	
Physical activity				
Yes	91 (46.2%)	63 (49.2%)	28 (43.1%)	0.189
More than 30min/day	44 (48.3%)	27 (42.8%)	17 (60.7%)	
Less than 30min/day	47 (51.7%)	36 (57.1%)	11 (39.3%)	
No	103(52.3%)	67(51.5%)	36(55.4%)	
Cancer type				
DCIS	34(17.3%)	22(16.7%)	12(18.5%)	0.531
NST	126(64.0%)	82(62.1%)	44(67.7%)	
Lobular	25(12.7%)	20(15.2%)	5(7.7%)	
Other	12(6.1%)	8(6.1%)	4(6.2%)	
Cancer Subtype				
Luminal	131(88.5%)	92 (90.2%)	39(84.8%)	0.407
TNBC	7(4.7%)	5(4.9%)	2(4.3%)	
HER2-positive	10(6.8%)	5(4.9%)	5(10.9%)	

Missing data: BMI at Inclusion, *n* = 1 (0.5%); Drugs, *n* = 2 (1%); Physical activity, *n* = 3 (1.5%); Cancer Subtype, *n* = 15 (9.2%). Abbreviations: BC, breast cancer; BMI, body mass index; DCIS, ductal carcinoma in situ; NST, no special type; TNBC, triple negative breast cancer. The “*n*” denotes the number of patients. In the case of categorical variables, percentages are expressed between brackets. In the case of continuous variables, the mean value is reported, with standard deviation (SD) between brackets. In the case of non-normal continuous variables, the median value is reported, with interquartile range between brackets (IQR).