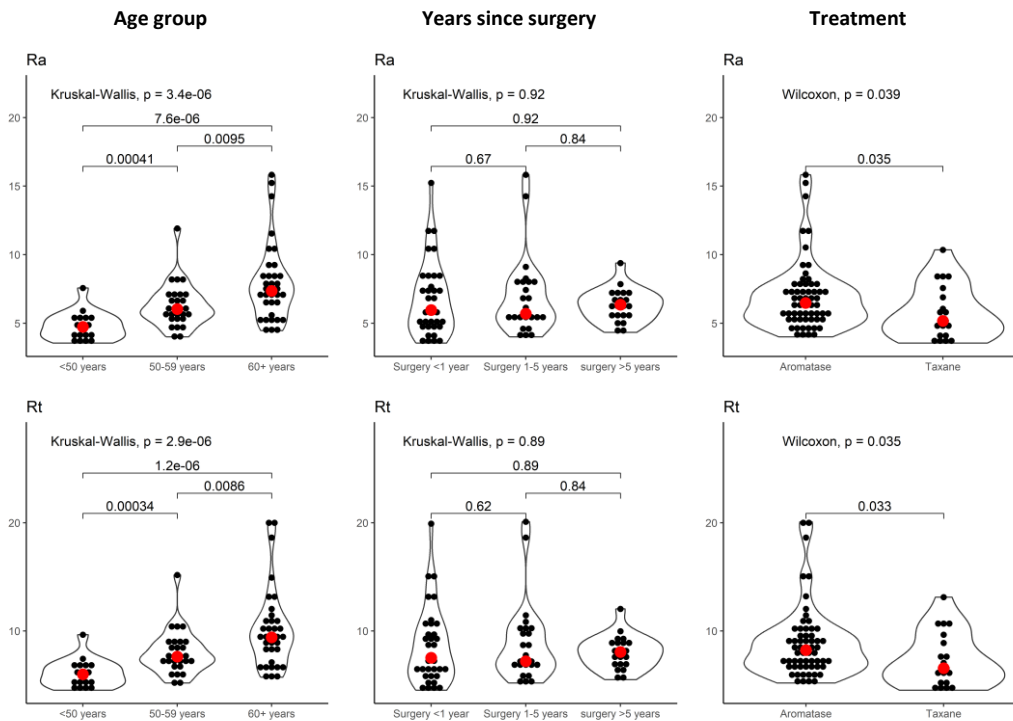


Supplementary material

Supplementary Table S1. Measures on the same side as breast cancer (or average of both arms in case of bilateral breast cancers)

Mean values Breast cancer side PATIENTS/Measures	Age group						Years since surgery					Treatment					
	ALL	0-49	50-59	60+	P	Adj-P	<1	1-5	5+	P	Adj-P	AI	TAX	P	Adj-P		
Hydration	mean	43.54	41.41	45.29	43.19	0.33	0.33	43.54	44.91	41.99	0.52	0.48	43.74	42.94	0.72	0.95	
	St.dev	8.65	10.40	8.69	7.65			8.96	8.17	8.82			8.17	10.17			
TEWL	mean	11.27	9.66	12.80	10.76	0.06	0.15	9.31	14.14	10.83	0.0001	0.02	12.26	8.19	0.0004	0.05	
	St.dev	4.51	3.20	5.72	3.54			2.71	5.84	3.06			4.53	2.80			
Skin firmness (R0)	mean	0.26	0.27	0.25	0.25	0.08	0.49	0.27	0.24	0.26	0.03	0.32	0.25	0.28	0.006	0.25	
	St.dev	0.04	0.04	0.04	0.03			0.04	0.03	0.03			0.03	0.04			
Elasticity (R2)	mean	58.85	65.88	60.66	54.12	<.0001	<.0001	60.90	56.65	58.18	0.22	0.08	58.20	60.82	0.28	0.04	
	St.dev	9.41	5.92	6.10	10.40			9.03	9.29	9.89			9.77	8.13			
Elasticity (R5)	mean	69.84	75.85	71.79	65.48	0.01	0.003	71.95	69.33	67.15	0.38	0.15	69.70	70.25	0.87	0.04	
	St.dev	12.77	9.38	9.38	14.98			12.15	11.65	14.80			13.52	10.44			
Ultrasound	Thickness	mean	951.7	951.5	973.8	934.7	0.61	0.26	972.8	945.1	926.7	0.54	0.69	926.0	1030	0.008	0.005
		St.dev	154.0	132.9	174.9	147.9			181.9	132.1	130.5			136.7	179.7		
Intensity	mean	112.9	115.8	117.5	107.9	0.02	0.02	111.5	112.9	115.0	0.69	0.76	113.1	112.1	0.79	0.46	
	St.dev	14.82	12.39	17.97	11.67			19.52	9.52	11.25			10.91	23.41			
Pigmentation	Minimum	mean	30.69	30.14	31.27	30.49	0.68	0.08	31.77	28.74	31.26	0.03	0.18	29.91	33.02	0.007	0.01
		St.dev	4.49	4.35	5.44	3.73			4.59	3.57	4.73			4.07	4.98		
Maximum	mean	48.09	45.93	48.73	48.62	0.33	0.15	48.34	47.50	48.37	0.87	0.95	47.84	48.81	0.58	0.24	
	St.dev	6.70	7.16	6.66	6.49			7.39	5.78	6.83			6.21	8.14			
Variation	mean	2.18	2.10	2.22	2.20	0.77	0.97	2.09	2.22	2.29	0.41	0.80	2.23	2.03	0.17	0.49	
	St.dev	0.56	0.59	0.54	0.57			0.54	0.54	0.61			0.57	0.52			
Redness	Minimum	mean	8.81	8.78	8.40	9.16	0.75	0.66	8.69	8.63	9.23	0.85	0.63	9.19	7.67	0.14	0.08
		St.dev	3.95	3.41	2.80	4.93			3.30	5.41	2.87			4.07	3.40		
Maximum	mean	32.22	27.68	31.71	34.83	0.008	0.05	31.42	35.09	30.09	0.08	0.07	33.38	28.72	0.02	0.29	
	St.dev	8.03	4.81	5.68	9.79			5.48	11.87	4.46			8.64	4.40			
Variation	mean	2.47	2.33	2.45	2.55	0.13	0.86	2.49	2.50	2.41	0.69	0.008	2.55	2.23	0.001	<.0001	
	St.dev	0.38	0.34	0.38	0.40			0.45	0.33	0.34			0.37	0.33			
Texture	Rugosity Ra [µm]	mean	6.68	4.81	6.29	7.90	<.0001	0.0002	6.74	6.91	6.31	0.70	0.21	6.97	5.79	0.06	0.44
		St.dev	2.45	1.03	1.60	2.83			2.73	2.85	1.20			2.54	1.94		
Rugosity Rt [µm]	mean	8.51	6.10	7.99	10.09	<.0001	0.0002	8.58	8.82	8.02	0.69	0.21	8.89	7.35	0.06	0.44	
	St.dev	3.16	1.29	2.02	3.68			3.54	3.67	1.53			3.29	2.47			



Supplementary Figure S1. Ra and Rt measures on the same side as breast cancer (or average of both arms in case of bilateral breast cancers)