

Table S1: Relative risk based on pathology scores. The relative risk for progression was calculated for the ipsilateral (upper block) or contralateral (lower block) breast. + behind a score indicates all scores equal to and higher than the given number lumped together. CI(95%) = 95% confidence interval, Fisher indicates Fisher's exact test, χ^2 = χ^2 -test. Numbers in parentheses indicate the risk for the higher pathology score alone (relative risk could not be calculated because of a division by 0 error).

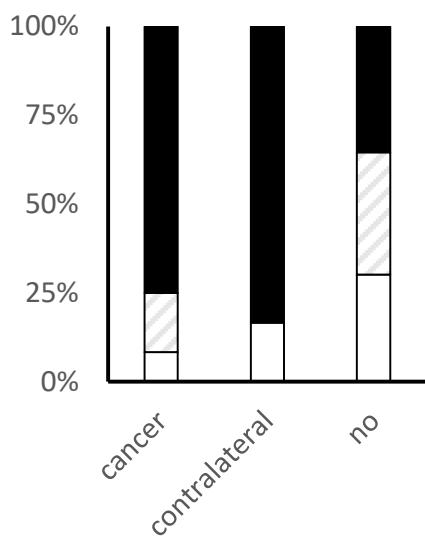
Table S1

ipsilateral										contralateral												
OPNc		OPN ex4				OPN ex4				combined		OPN ex4				combined		OPN ex4				
	comparison	Relative Risk	CI (95%)	p-value	Fisher	χ^2		comparison	Relative Risk	CI (95%)	p-value	Fisher	χ^2			comparison	Relative Risk	CI (95%)	p-value	Fisher	χ^2	
intensity	1+ vs 0	(0.133)			0.211	0.100	intensity	1+ vs 0	0.805	0.261	2.481	0.740	0.707	intensity	0 vs 1+	(0.118)			1.000	0.373		
	2+ vs 1	2.870	0.831	9.912	0.120	0.075		2+ vs 1	2.222	0.571	8.644	0.277	0.236		1 vs 2+	(0.146)			0.117	0.069		
	3 vs 2	0.450	0.064	3.186	0.659	0.389		3 vs 2	1.813	0.264	12.436	0.500	0.558		2 vs 3+	1.417	0.464	4.329	0.753	0.536		
	1+ vs 0	(0.133)			0.211	0.100		1+ vs 0	0.805	0.261	2.481	0.740	0.707		3 vs 4+	1.087	0.307	3.851	1.000	0.897		
	2+ vs 1	2.200	0.307	15.785	0.682	0.405		2+ vs 1	0.801	0.208	3.089	0.710	0.748		4 vs 5+	0.000			1.000	0.394		
	3 vs 2	1.108	0.370	3.318	1.000	0.855		3 vs 2	8.235	0.995	68.152	0.034	0.018		5 vs 6							
additive	1+ vs 0	(0.133)			0.211	0.100	additive	1+ vs 0	0.081	0.261	2.481	0.740	0.707	positivity	0 vs 1+	(0.118)			1.000	0.373		
	2+ vs 1							2+ vs 1							1 vs 2+	(0.130)			0.602	0.224		
	3+ vs 2	1.692	0.237	11.952	1.000	0.584		3+ vs 2	0.983	0.216	4.467	1.000	0.982		2 vs 3+	1.765	0.416	7.486	0.725	0.425		
	4+ vs 3	2.000	0.467	8.567	0.487	0.329		4+ vs 3	3.286	0.410	26.342	0.386	0.224		3 vs 4+	0.500	0.160	1.563	0.254	0.236		
	5+ vs 4	1.724	0.480	6.192	0.480	0.393		5+ vs 4	3.273	0.634	16.883	0.297	0.137		4 vs 5+	1.517	0.341	7.548	0.688	0.606		
	6 vs 5	0.444	0.060	3.277	0.633	0.393		6 vs 5	2.250	0.355	14.279	0.491	0.425		5 vs 6	2.625	0.441	15.609	0.300	0.280		
contralateral		OPN ex4				OPN ex4				OPN ex4				combined		OPN ex4				combined		
OPNc		Relative Risk				Relative Risk				Relative Risk				comparison		Relative Risk				comparison		
	comparison	Risk	CI (95%)	p-value	Fisher	χ^2		comparison	Risk	CI (95%)	p-value	Fisher	χ^2		comparison	Risk	CI (95%)	p-value	Fisher	χ^2		
intensity	1+ vs 0	(0.071)			0.587	0.242	intensity	1+ vs 0	(0.08)			0.337	0.130	intensity	0 vs 1+	(0.063)			1.000	0.528		
	2+ vs 1	5.000	0.610	40.995	0.202	0.090		2+ vs 1	0.750	0.146	3.841	1.000	0.728		1 vs 2+	(0.079)			0.338	0.194		
	3 vs 2	3.750	0.714	19.707	0.131	0.097		3 vs 2	0.000	0.000	0.000	1.000	0.626		2 vs 3+	3.444	0.423	28.064	0.391	0.210		
	1+ vs 0	(0.071)			0.587	0.242		1+ vs 0	(0.080)			0.740	0.707		3 vs 4+	3.826	0.463	31.619	0.346	0.170		
	2+ vs 1	0.471	0.094	2.349	0.320	0.355		2+ vs 1	2.212	0.273	17.883	0.660	0.438		4 vs 5+	1.583	0.216	11.581	1.000	0.659		
	3 vs 2	2.667	0.292	24.370	0.616	0.362		3 vs 2	3.375	0.623	18.282	0.163	0.136		5 vs 6	0.000	0.000	0.000	1.000	0.248		
additive	1+ vs 0	(0.071)			0.587	0.242	additive	1+ vs 0	(0.08)			0.337	0.130	positivity	0 vs 1+	(0.063)			1.000	0.528		
	2+ vs 1							2+ vs 1							1 vs 2+	(0.070)			1.000	0.388		
	3+ vs 2	0.833	0.106	6.527	1.000	0.863		3+ vs 2	1.579	0.197	12.646	1.000	0.661		2 vs 3+	(0.094)			0.331	0.136		
	4+ vs 3	1.878	0.222	15.872	1.000	0.553		4+ vs 3	2.706	0.323	22.689	0.638	0.331		3 vs 4+	(0.118)			0.333	0.194		
	5+ vs 4	(0.148)			0.117	0.060		5+ vs 4	0.926	0.110	7.800	1.000	0.943		4 vs 5+	0.444	0.089	2.214	0.402	0.306		
	6 vs 5	1.700	0.282	10.260	0.613	0.561		6 vs 5	0.000	0.000	0.000	1.000	0.708		5 vs 6	2.857	0.205	39.829	0.459	0.419		

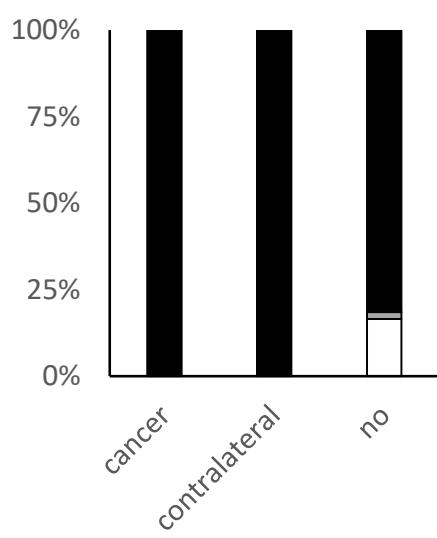
Figure S1: Breast cancer risk scores. Comparison among three different cut-offs for hOPN-c intensity scores to dichotomize low versus high. The left panel shows the chosen separation of 0,1 = low and 2,3 = high, the middle panel displays 0 = low and 1-3 = high, the right panel has 0-2 = low and 3 = high.

Figure S1

hOPNc 0-1/2-3



hOPNc 0/1-3



hOPNc 0-2/3

