

Table S1A: Values for quantitation of percent ciliated epithelial/cancer cells in normal, PIN, cancer, and perineural.

Boxplot all epithelial/cancer cells						
	n (patients)	% cilia median	n (total nuclei)	Range nuclei/patient	Range cilia/patient	P-value
Normal	10	8.9	6517	405-1097	25-95	n/a
PIN	24	5.7	22951	325-1759	8-172	0.24
PIN LG	13	6.6	9652	325-1698	17-172	n/a
PIN HG	18	5.8	13299	378-1759	8-102	n/a
Ca	75	1.9	52877	112-1923	0-69	<0.0001
Ca LG	35	2.2	18973	208-1273	1-49	n/a
Ca HG	40	1.4	33904	112-1923	0-69	n/a
Peri	18	1.7	8082	120-1393	0-72	<0.0001
Average	29	4.3	20782	248-1603	7-100	trend <0.0001

Table S1B: Values for analysis of percent ciliated epithelial/cancer cells in normal, PIN, cancer, and perineural.

Bar graph all epithelial/cancer cells				
	Q1 n(patients)	Q1 % (patients)	Q4 n (patients)	Q4 % (patients)
Normal	2	20	2	20
PIN	17	70.8	3	12.5
PIN LG	8	61.5	2	15.4
PIN HG	14	77.8	2	11.1
Ca	74	98.7	0	0
Ca LG	35	100	0	0
Ca HG	39	97.5	0	0
Peri	17	94.4	1	5.6
Q1 ≤ 7.6%, Q4 >11.4%				