

Supplementary Table 1: Comparison of county cohort and national cohort

Parameter	County 2010-2015						SCRCR 2010-2014						
	Unadjusted						Unadjusted						
	No.	(%)	HR	TTR	p	HR OS	p	No.	(%)	HR	TTR	p	HR OS
Total	416						12446						
Age (continuous)	72, 12						72, 11						
mean, sd													
Range	26-96						17-101						
Sex													
Male	208	(50)	(Ref)			(Ref)	6084	(49)	(Ref)			(Ref)	
Female	208	(50)	1.1	0.541	0.9	0.464	6362	(51)	0.9	0.001	0.9	<0.001	
ASA													
1	72	(17)	(Ref)			(Ref)	1636	(13)	(Ref)			(Ref)	
2	187	(45)	1.3	0.470	1.9	0.055	6510	(52)	1.0	0.747	1.8	<0.001	
3-4	157	(38)	1.5	0.220	4.0	<0.001	3976	(32)	1.1	0.125	4.3	<0.001	
Surgery													
Elective	341	(82)	(Ref)			(Ref)	10438	(84)	(Ref)			(Ref)	
Emergency	75	(18)	3.0	<0.001	1.8	0.004	1843	(15)	2.3	<0.001	2.0	<0.001	
Complications													
No	298	(72)	(Ref)			(Ref)	10171	(82)	(Ref)			(Ref)	
Yes	118	(28)	1.5	0.095	1.8	0.002	2275	(18)	1.1	0.039	1.5	<0.001	
pT													
1-2	72	(17)	(Ref)	<0.001	(Ref)		2770	(22)	(Ref T1)			(Ref)	
3	269	(65)	3.8	0.010	1.2	0.429	7541	(61)	2.8	<0.001	1.4	<0.001	
4	75	(18)	7.2	<0.001	2.9	<0.001	2130	(17)	7.1	<0.001	2.8	<0.001	
NA	0	(0)					6	(0)					
pN													
0	226	(54)	(Ref)	<0.001	(Ref)		7845	(63)	(Ref)			(Ref)	
1	123	(30)	2.9	<0.001	1.6	<0.001	2864	(23)	2.8	<0.001	1.5	<0.001	
2	67	(16)	7.6	<0.001	2.4	<0.001	1737	(14)	6.7	<0.001	2.6	<0.001	
NA	0	(0)											
Sampled nodes													
<12	38	(9)	(Ref)			(Ref)	1243	(10)					
≥12	378	(91)	2.7	0.095	1.4	0.298	10937	(88)	1.1	0.451	0.8	<0.001	
Malignancy grade													
Low	350	(84)	(Ref)			(Ref)	9202	(74)	(Ref)			(Ref)	
High	66	(16)	2.1	0.003	1.6	0.039	2554	(21)	1.5	<0.001	1.5	<0.001	
Missing	0	(0)					696	(6)					
Vascular invasion													
No	291	(70)	(Ref)	<0.001	(Ref)		8986	(72)	(Ref)			(Ref)	
Yes	112	(27)	3.7	<0.001	1.7	0.005	2907	(23)	3.0	<0.001	1.9	<0.001	
Missing	13	(3)					794	(6)					
Perineural invasion													
No	343	(82)	(Ref)	<0.001	(Ref)		9733	(78)	(Ref)			(Ref)	
Yes	52	(13)	3.6	<0.001	2.0	0.001	1443	(12)	3.3	<0.001	2.1	<0.001	
Missing	21	(5)					1511	(12)					
Adjuvant treatment													
No	268	(64)	(Ref)			(Ref)	8930	(72)	(Ref)			(Ref)	
Yes	148	(36)	2.3	<0.001	0.7	0.027	3516	(28)	2.2	<0.001	0.7	<0.001	
Recurrences	79	(19)					1965	(16)					
Mortality	135	(32)					4010	(32)					
Complete cases	394	(95)					10309	(83)					

Subtitle supplementary table 1: Complete cases for the variables described in table 1. Unadjusted HR and p-values for the variables in the baseline models for TTR and OS.