

Attachment 8: Statistical Power for Sample Size of the Central and Eastern European Renal Cancer Study

Power calculations to determine the impact of VHL gene status, other etiologic and genetic risk factors on 5-year survival of RCC.

Table 8. Calculations for 80% power, two-sided test with alpha=0.05.

658 Living at 5-years; 439 Dead at 5-years	Minimal HR
VHL status: yes (93%)/no (7%)	2.2
Methylation (11%) vs no methylation	1.8
Any VHL mutation (82%) vs no mutation	1.6
Smoking (53% ever)	1.5
BMI (29%: <25, 44%: 25-30, 27%: 30plus)	1.3 (fitted with trend)
Hypertension (yes 45%)	1.5
Gender (female: 40%)	1.45
Minor allele frequency=10%	1.8
Minor allele frequency=20%	1.6
Minor allele frequency=30%	1.5