

Scenario	No intervention		Preventive intervention only for GA		Incremental Cost per QALY (\$/QALY)
	Cost (\$)	QALY loss	Cost (\$)	QALY loss	
Prevalence of genetic abnormality: %15	25	0.0014	134	0.00013	82,894
Prevalence of genetic abnormality: %45	76	0.0043	183.5	0.00039	27,330
Cost of genetic identification: \$0	42	0.0024	41	0.00021	Dominant Strategy
Cost of genetic identification: \$50	42	0.0024	91	0.00021	22,396
Risk of exacerbation in asthmatics with GA, without preventive intervention: %65	50	0.0028	151	0.00021	38,528
Risk of exacerbation in asthmatics with GA, without preventive intervention: %45	34	0.0020	151	0.00021	66,844
Cost of genetic identification: \$87.5	42	0.0024	129	0.00021	39,554
Cost of genetic identification: \$131	42	0.0024	172	0.00021	59,557
Mean cost of exacerbation : \$244	34	0.0024	150	0.00021	53,060
Mean cost of exacerbation : \$366	50.5	0.0024	151	0.00021	46,052
Cost of treatment: \$119.5	42	0.0024	143	0.00021	46,142
Cost of treatment: \$179	42	0.0024	158	0.00021	52,969

Supplementary Table 1: Results of scenario analyses