## 1 S5 Table. Expected lifetime disease-related cases, deaths, and costs in German adults #5-#7

Scenario	#5 (#1 with 64% NBP Effectiveness PPSV23)				#6 (#1 with 50% revaccination rate)				#7 (#2 with 50% revaccination rate)			
(description)												
	Cur-	Hypothet-	Δ	95% CI	Current	Hypothet-	Δ	95% CI	Current	Hypothet-	Δ	95% CI
	rent	ical				ical				ical		
Population-Level I	Results									1		
No, of Cases												
IPD (in				(-1.505,				(-1.929,				(-1.882,
thousands)	85.369	85.321	-0.048	1.075)	85.423	85.298	-0.125	1.487)	84.910	84.768	-0.142	1.465)
NBP (in millions)								<u> </u>		<u> </u>		1
Requiring				(-0.043, -				(-0.057, -				(-0.056, -
Inpatient Care	16.540	16.509	-0.031	0.018)	16.547	16.503	-0.044	0.016)	16.546	16.503	-0.043	0.013)
Requiring Out-				(-0.067, -				(-0.064, -				(-0.059, -
patient Care	23.257	23.211	-0.045	0.026)	23.278	23.245	-0.033	0.003)	23.276	23.247	-0.030	0.001)
No, of Deaths (in				(-0.010,				(-0.015,				(-0.014,
millions)	2.859	2.855	-0.004	0.002)	2.858	2.851	-0.008	0.000)	2.858	2.851	-0.007	0.001)
Total Costs (in billio	ons)					<u> </u>		1		<u> </u>		
Medical Care				(-0.201,				(-0.176, -				(-0.173, -
	30.634	30.538	-0.096	0.014)	30.601	30.465	-0.136	0.085)	30.638	30.507	-0.132	0.078)
Non-Medical				(-0.058,				(-0.076,				(-0.078,
Care	3.831	3.812	-0.019	0.018)	3.841	3.815	-0.026	0.028)	3.842	3.815	-0.027	0.029)
Vaccination				(0.576,				(0.576,				(0.461,
	0.505	1.082	0.577	0.578)	0.505	1.082	0.577	0.579)	0.505	0.967	0.462	0.463)

(0.290,
0.383)
(0.224,
0.385)
(-2.557, -
1.160)
(-1.159,
0.430)
(6.835,
6.866)
(4.293,
5.680)
(3.317,
5.713)
(-0.0014,
0.0030)
(-0.0010,
( 0.0010,

Healthcare System Perspective							
Cost per Life-							
Year Gained	€23,061	€9,527	€7,946				
Cost per QALY							
Gained	€29,617	€5,828	€13,699				
Societal Perspective							
Cost per Life-							
Year Gained	€22,146	€8,960	€7,290				
Cost per QALY							
Gained	€28,441	€14,898	€12,570				

QALY: quality-adjusted life year

Note: Low-risk is specified as immunocompetent patients without any chronic medical conditions, moderate-risk describes immunocompetent patients with at least one chronic medical condition and high-risk represent immunocompromised/immunosuppressed patients, with or without chronic medical conditions (congenital or acquired). Healthcare system perspective includes medical and vaccination costs; societal perspective includes medical, non-medical, and vaccination costs.