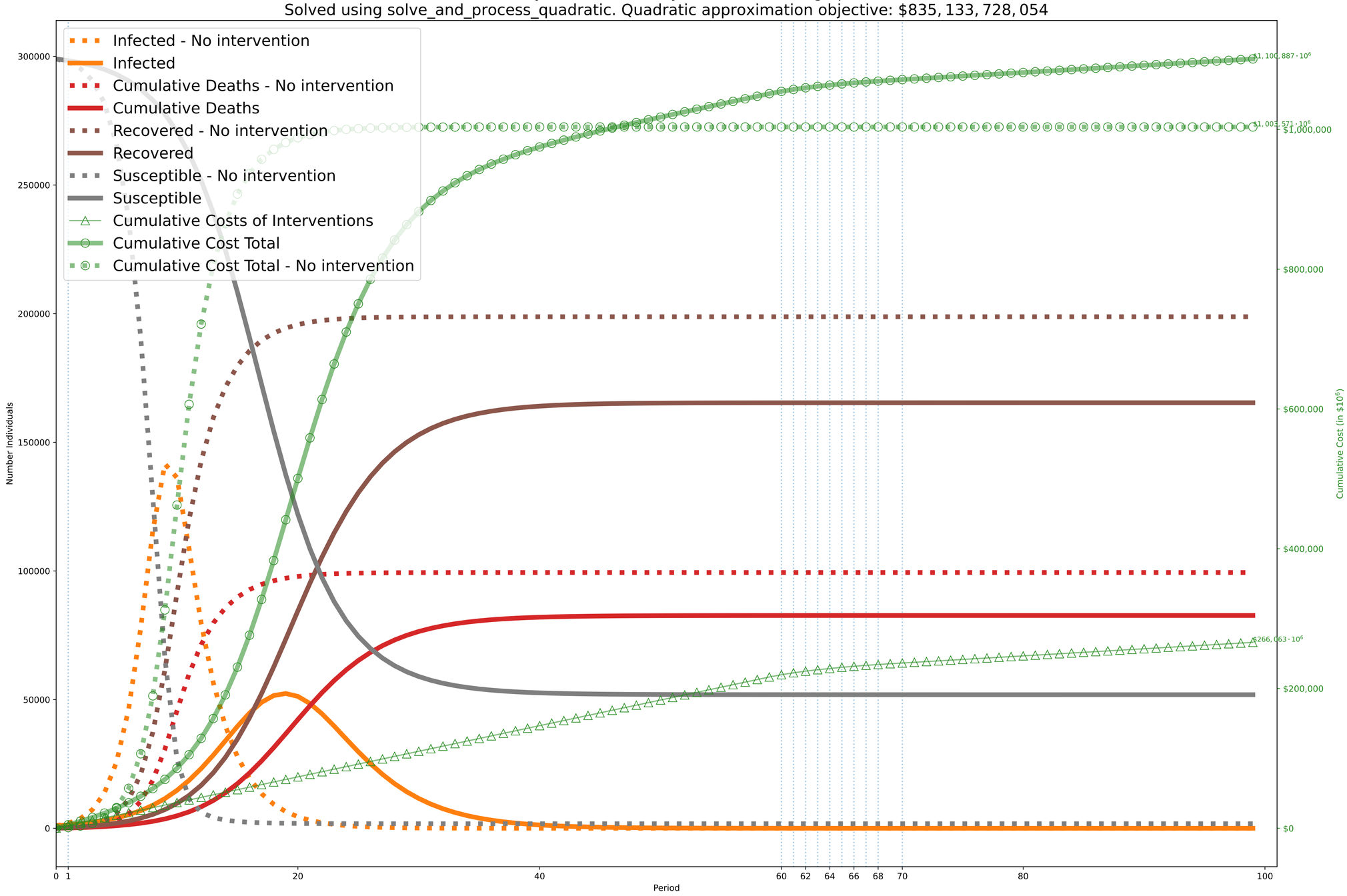
Objective: $1,100,887,661,519; without intervention: $1,003,571,304,682 (Desired optimality gap: 1%; actual: 25%. Lower Bound: $826,865,000,000. Time to solve: 200s)
$C^I = \$10,000, C^D = \$10,000,000$
One Period=7 days (costs scaled by 1,000,000 during optimization)
Solved using solve_and_process_quadratic. Quadratic approximation objective: $835,133,728,054



	1 -59	60 -60	61 -61	62 -62	63 -63	64 -64	65 -65	66 -66	67 -67	68 -69	70 -99
0. Movement A: $[5000 ,10000]·10^2 B: $[10000,20000]·10^2 C: $[10 ,14]·10^2 P: [.95 ,.93]	2	2	1	1	1	1	1	1			
1. Education (University level) A: $[0 ,0]·10^2 B: $[0 ,0]·10^2 C: $[10 ,14]·10^2 P: [.99 ,.95]	2	2					2				
2. Social Gatherings (in a house) A: $[0 ,0 ,0 ,0]·10^2 B: $[0 ,0 ,0 ,0]·10^2 C: $[8 ,10 ,12 ,14]·10^2 P: [.99 ,.99 ,.97 ,.93]	4	4	4	4	4	4	4	4	4	4	4
3. Non-Food Service (bank,retail, etc) A: $[2500 ,5000 ,10000]·10^2 B: $[5000 ,10000,20000]·10^2 C: $[8 ,10 ,14]·10^2 P: [.99 ,.95 ,.93]	3	3	2	2	2	2			1		
4. Restaurants A: $[5000 ,10000]·10^2 B: $[10000,20000]·10^2 C: $[10 ,14]·10^2 P: [.95 ,.93]	2	2	1	1	1						
5. Masking A: $[0 ,0 ,0]·10^2 B: $[0 ,0 ,0]·10^2 C: $[8 ,10 ,14]·10^2 P: [.99 ,.95 ,.93]	3	3	3	3	3	3	2	3	3	3	2
6. Mega Events A: $[2500 ,5000 ,10000]·10^2 B: $[5000 ,10000,20000]·10^2 C: $[8 ,10 ,14]·10^2 P: [.99 ,.95 ,.93]	3	3	3	2							
7. Border Control A: $[5000 ,10000]·10^2 B: $[10000,20000]·10^2 C: $[10 ,14]·10^2 P: [.95 ,.93]	2		1								
8. Physical Distancing A: $[0]·10^2 B: $[0]·10^2 C: $[10]·10^2 P: [.93]	1	1	1	1	1	1	1	1	1	1	1
Cost Per Period: TOTAL **Cost Per Period: POLICY** **Cost Per Period: DISEASE** **Probability Factor**	$1.8e+10 $3.7e+09 $1.4e+10 0.509	$3.3e+ $3.2e+ $1.8e+ 0.550	$2.8e+ $2.8e+ $1.4e+ 0.596	$2.4e+ $2.3e+ $1.2e+ 0.645	$2.1e+ $2e+09 $9.7e+ 0.679	$1.7e+ $1.7e+ $8.1e+ 0.714	$1.7e+ $1.7e+ $6.8e+ 0.734	$1.4e+ $1.4e+ $5.8e+ 0.752	$1.4e+ $1.4e+ $4.9e+ 0.787	$1.1e+ $1.1e+ $3.9e+ 0.791	$1e+09 $1e+09 $7.4e+05 0.813