

## **COVID-19** Financial Risk Analysis

Date Prepared: March 23, 2020

## Listed below are projected financial risks of plans based on percentage of infection

AGE	Mortality Rate (Source: WHO)
80+ years old	14.80%
70-79 years old	8.00%
60-69 years old	3.60%
50-59 years old	1.30%
40-49 years old	0.40%
30-39 years old	0.20%
20-29 years old	0.20%
10-19 years old	0.20%
0-9 years old	0.00%

Gender	<b>Mortality Rate</b> (Source: WHO)
Male	2.80%
Female	1.70%

Hospitalization Rate	ICU Rate
(Source: STAT)	(Source: STAT)
10.00%	5.00%

## ICD-10 Descriptors, Codes, and Average Cost per Claimant

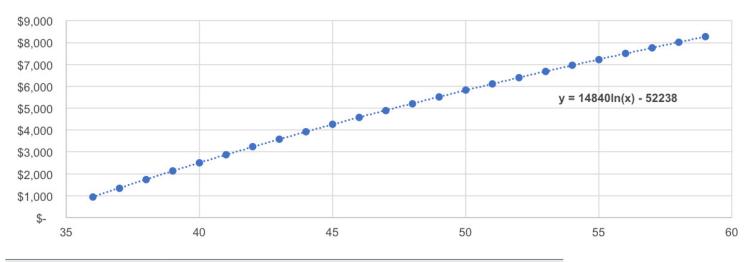
(Source: APBA Claims Analysis)

MILD ICD-10 Codes		MODERATE ICD-10 Codes	
Cough	R05	Pneumonia	J12.89
Shortness of Breath	R06.02	Bronchitis	J20.8
Fever, unspecified	R50.9	Lower Respiratory Infection	J22
Avg Cost/Claimant:	\$1,400	Avg Cost/Claimant:	\$21,650

SEVERE ICD-10 Codes		
ARDS	J80	
<b>Avg Cost/Claimant:</b>	\$92,150	

## Cost Per Infection Based on Average Group Age

(Source: APBA Claims Analysis)



Low (0.1% Infected)	[14,840 x LN(Avg Employee Age)-52,238] x Total Members x .001	For every 5 percentage points your population is above
Mild (1% Infected)	[14,840 x LN(Avg Employee Age)-52,238] x Total Members x .01	50% male, add 2 percent.
Moderate (5% Infected)	[14,840 x LN(Avg Employee Age)-52,238] x Total Members x .05	For every 5 percentage points
Severe (25% Infected)	[14,840 x LN(Avg Employee Age)-52,238] x Total Members x .25	your population is below 50% male, remove 2 percent.

Elective Claims Offset:	\$59.90	РМРМ
	0.6049*LN(Infection Rate)+6.6036	Months
	Offset	Per Total Members

Example:	1000 Members, Average Employee Age 45, 60% Male, 1% Infection Rate		
	14,840 x LN(45) - 52,238 = 4252.9		
	4252.9 x 1000 mbrs x .01 x 1.04 = \$44,230	minus \$59.90 x (.6049 x LN(.01) + 6.6036) =	
	Expected Plan Cost = -\$181,913	1% Infection Rate	
	-\$53,102	5% Infection Rate	
	\$824,214	25% Infection Rate	



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