



Pandemic Planning: PPE Demand Analysis Report

Facility Name:



Kimberly-Clark

*Trusted Clinical Solutions**

STEP 1: Select Facility State

STEP 2: Select Facility Name

You may also enter KC AHA # directly	FL	1234567	North Metro Hospital
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Input variables and calculator assumptions should be reviewed and verified by the facility

PPE Pandemic Demand Analysis - Input Variables

STEP 3: Modify assumptions (if desired)

CDC FluSurge's ASSUMPTION PAGE INPUTS	
5	ALOS non-ICU for influenza-related illness (IRI)
10	ALOS ICU for influenza-related illness (IRI)
10	Average days on ventilator for IRI
15%	Percent admitted IRI patients will need ICU care
8%	Percent of admitted IRI patients will need ventilators
70%	Percent of IRI deaths assumed to be hospitalized
3%	Overall Daily percentage increase in cases per day
25	% Attack Rate from FluSurgeMain Menu
8	Week Duration from FluSurgeMain Menu

IRI = Influenza Related Illness
ALOS = Average Length of Stay
Note: Numbers above are HHS pandemic planning assumptions and used in the underlying logic of the CDC FluSurge program. Facility should review and modify as desired.

STEP 4: Verify & input ventilators

Verispan/SMG ID	G013WH
Employees	10,022
Professional Care Givers	3,952
Staffed Facility Beds	1,494
Adjusted Daily Census	1556
xCU Beds	309
Admissions	18,060
ER Visits	180,534
Outpatient Visits per week	7,349
Ventilators	0

Note: Numbers above are based on SMG Hospital data. Facility should review and modify as desired.

Inputs to customize FluSurge

STEP 5: Verify information

SMSA	#REF!	
2000 Census	3,876,380	
Age Breakdown	0-17	161,919
	18-64	407,757
	65+	96,528
SMSA Staffed Beds	8,693	
Market Share - Beds	17%	
Market Share - xCU's	29%	
Population Market Share	666,204	
	0	

Note: Numbers above are U.S. Census Data. Facility should review and modify as desired.

STEP 6: Go to CDC FluSurge (<http://www.pandemicflu.gov/plan/tools.html>) Enter information requested shown in orange above.

CDC FluSurge Data Analysis Results

STEP 7: Enter Total Admissions from CDC FluSurge Results Screen

Categories from CDC FluSurge	TOTALS
Hospital Admissions	2,372
Hospital Capacity (Peak)	331
ICU Capacity (Peak)	99
Ventilator Capacity (Peak)	99
Total Deaths (most likely)	481

Input here

These inputs are not required but you may want to input them for your reference

CDC FluSurge will also return an analysis for the other category impacts by week. See example below.

Pandemic Influenza Impact	Weeks	1	2	3	4	5	6	7	8	9	10
Hospital Admissions	Weekly admissions	142	297	356	451	451	356	237	142		
	Peak admissions/day				70						
Hospital Capacity	% of influenza patients in hospital	105	114	264	331	343	394	231	152		
	% of hospital capacity needed	32	35	79	99	103	118	71	45		
ICU Capacity	% of influenza patients in ICU	21	22	51	63	66	77	47	30		
	% of ICU capacity needed	21	22	51	63	66	77	47	30		
Ventilator Capacity	% of influenza patients on ventilators	41	42	95	118	121	142	86	55		
	% usage of ventilators	41	42	95	118	121	142	86	55		
Deaths	% of deaths from influenza	15	15	33	40	42	49	29	18		
	% of influenza deaths in hospital	20	20	44	53	55	64	38	24		

Outpatient Visits

STEP 8: Facility can modify % individuals seeking care

Outpatient visits defined as % of customer's market share contracting pandemic disease and seeking help at facility equals:

Note: Assumptions from Step 3 should match info input into CDC FluSurge

Outpatient Visits during Pandemic	% increase over average
Week 1	109%
Week 2	181%
Week 3	272%
Week 4	344%
Week 5	344%
Week 6	272%
Week 7	181%
Week 8	109%

Outpatient Visits Occurring During Pandemic Period: 133,241

STEP 9: Facility should verify product usage totals and input additional volume.

CURRENT (BASELINE) PRODUCT USAGE IN CASES

Product Category	KC Annual	Other Annual	TOTAL	Weekly Base	by Admit	by Bed	by Visit	by Professional	by Employee
Respirators	58.0		58	1.1	0.003	0.039	0.00789	0.015	0.006
Surgical Masks (Fluid Resistant)	1106.0		1,106	21.3	0.061	0.740	0.15050	0.280	0.110
Standard Masks	2000.0		2,000	38.5	0.111	1.339	0.27216	0.506	0.200
Eyewear	179.0		179	3.4	0.010	0.120	0.02436	0.045	0.018
Cover Gowns	7627.0		7,627	146.7	0.422	5.105	1.03787	1.930	0.761
Gloves	4840.0		4,840	93.1	0.268	3.240	0.65862	1.225	0.483
Headwear	447.0		447	8.6	0.025	0.299	0.06083	0.113	0.045

Note: Based on current annualized traced sales to Kimberly-Clark.

STEP 10: Proceed to "Demand Based Increase" Worksheet

Note: This tool is intended to provide healthcare facilities a means of evaluating how much PPE they may want to consider stockpiling in preparation for a potential future pandemic. This tool creates a baseline of information using U.S. Census Data, SMG Hospital Information, CDC FluSurge data and facility sales information of Kimberly-Clark products. The default assumptions used to calculate PPE demand are based on HHS pandemic planning assumptions and can be adjusted by the facility. The intent of the analysis is to provide a working guideline for facilities to estimate potential PPE demand and does not in itself represent a guarantee that projected amount will represent sufficient inventory levels in the case of a pandemic. Input variables should be reviewed and verified by the facility.

PPE Pandemic Demand Analysis - Results Report

Input variables and calculator assumptions should be reviewed and verified by the facility

KC AHA:	1234567	North Metro Hospital
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STEP 1: Review and/or modify PPE set usage assumptions

STEP 2: Modify % product to constitute PPE set

Sets of PPE that will be used per:		Respirators	Fluid Resistant Masks	Standard Masks	Eyewear	Cover Gowns	Gloves	Headwear
OUTPATIENT VISITS	20	50%	25%	25%	25%	100%	100%	25%
ADMISSIONS	100	100%	0%	25%	50%	100%	100%	50%
TOTAL BEDS (INCLUDING xCU BEDS)	24	100%	0%	25%	50%	100%	100%	50%
PROFESSIONAL HEALTHCARE WORKER USES per DAY	8	50%	25%	25%	25%	25%	100%	25%
FACILITY EMPLOYEE USES per DAY	4	25%	25%	25%	10%	10%	25%	10%
USER DETERMINED (see below)	0							

Other Increase Factors to Consider: Other Staff, Morgue, Laboratory, Surge Capacity Rooms, Volunteers, etc.

SELECT METRIC TO LOAD ON:	ADMISSIONS
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SELECTED CRITERIA TO BE USED FOR DEMAND CALCULATION		
Additional ADMISSIONS requiring precautions	2,372	Based on FluSurge Data
Pandemic Related Increase based on ADMISSIONS Estimates	100	sets of PPE

RESULTING INCREASE IN PPE DEMAND			
PPE Product Category	Quantity Needed (in Eaches)	Quantity Per Case	Additional Cases Needed
Respirators	237,200	210	1130
Surgical Masks (Fluid Resistant)	50,000	300	167
Standard Masks	25,000	300	83
Eyewear	118,600	50	2372
Cover Gowns	237,200	100	2372
Gloves	237,200	1,000	237
Headwear	118,600	500	237

STEP 5: Select # weeks to spread order

TO SPREAD LOAD IN OVER WEEKS,
YOU WOULD NEED TO INCREASE YOUR STANDARD ORDERS BY:

ORDERING SCHEDULE			
Product Category	Current Weekly Order	Additional Product to Order	New Amount to Order for 6 weeks
Respirators	1.1	132	133
Standard Masks	21.3	83	105
Eyewear	0.0	198	198
Cover Gowns	3.5	40	43
Gloves	146.7	132	278
Headwear	93.1	66	159

Note: This tool is intended to provide healthcare facilities a means of evaluating how much PPE they may want to consider stockpiling in preparation for a potential future pandemic. This tool creates a baseline of information using U.S Census Data, SMG Hospital Information and facility sales information of Kimberly-Clark products. The default assumptions used to calculate PPE demand are based on HHS pandemic planning assumptions and can be adjusted by the facility. The intent of the analysis is to provide a working guideline for facilities to estimate potential PPE demand and does not in itself represent a guarantee that projected amount will represent sufficient inventory levels in the case of a pandemic.

General PPE Stockpile Based on Current Usage

CDC recommends stockpiling 6-8 weeks of consumable medical supplies

STEP 1: Select Facility State

FL	You may also enter KC AHA # directly	1234567	North Metro Hospital
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STEP 2: Select Facility Name

STEP 3: Add non-KC volume

STEP 4: Choose # weeks

GENERAL PPE STOCKPILE BASED ON CURRENT USAGE FIGURES						
Product Category	KC Annual Usage (in cases)	ADDITIONAL Annual Usage (in cases)	TOTAL Annual Usage (in cases)	Weekly Base (in cases)	# Weeks Avg Usage to Stockpile	STOCKPILE TOTAL (in cases)
Respirators	58		58	1.1	8 Weeks Stockpiled	9
Surgical Masks (Fluid Resistant)	1,106		1,106	21.3	8 Weeks Stockpiled	170
Standard Masks	0		0	0.0	8 Weeks Stockpiled	0
Eyewear	180		180	3.5	8 Weeks Stockpiled	28
Cover Gowns	7,628		7,628	146.7	8 Weeks Stockpiled	1,173
Gloves	4,840		4,840	93.1	8 Weeks Stockpiled	745
Headwear	447		447	8.6	8 Weeks Stockpiled	69

STEP 5: Facility should verify & add relevant volume

STEP 6: Choose # weeks to spread order

TO SPREAD PURCHASE OVER 6 WEEKS, INCREASE STANDARD ORDERS BY

ORDERING SCHEDULE			
Product Category	Current Weekly Order	Additional Product to Order	New Amount to Order for 6 Weeks
Respirators	1.1	1	3
Surgical Masks (Fluid Resistant)	21.3	28	50
Standard Masks	0.0	0	0
Eyewear	3.5	5	8
Cover Gowns	146.7	196	342
Gloves	93.1	124	217
Headwear	8.6	11	20

Note: This tool is intended to provide healthcare facilities a method to evaluate how much PPE to consider stockpiling in preparation for a potential future pandemic. This General Stockpile Calculator calculates the number of cases of PPE required to create a stockpile of a facility-defined number of weeks based on current annual usage of PPE. This usage is not necessarily indicative of the same type of PPE mix that may be required during a pandemic, nor does it represent a guarantee that projected amounts will represent sufficient inventory levels in the case of a pandemic. Based on CDC recommendations for stockpiling, it instead, projects a basic level of safety stock.