

COVID-19 Contingency Plan (Mount-Lebanon and South Bekaa)

Medical / Social Support



Executive Summary

Covid - 19 ICU Beds				
Need	Available	Gap	Cost / ICU Bed	Total Cost / ICU Beds
90	50	40	\$ 50,000	\$ 2,000,000

Home Care Services (Home / Quarantine Centers)	
Capital Investment / Patient for 100,000 Patient	\$ 190,000
Monthly Operating expenses – Home Care	LBP 502,920,000
Monthly Operating expenses – Quarantine Center	LBP 281,614,200
Operating Expenses (Medication) At Home / Patient (in 10 days)	LBP 573,000
Operating Expenses (Medication+ Meals) At Quarantine Centers / Patient (in 10 Days)	LBP 670,510

- 1- Quarantine centers are available in Werdaniyi, Bhamdoun and Shouf
- 2- Cost per meal per patient= 25.141 LBP with average 35% of patient require Quarantine

Executive Summary

Social Financial Support / In-Patient		
Regular Bed (ALOS 7)	LBP 1,000,000	Total Out-of-pocket per patient: LBP 3,750,000
Medication	LBP 2,750,000	
ICU + Regular Bed (ALOS 15)	LBP 2,475,000	Total Out-of-pocket per patient: LBP 5,225,000
Medication	LBP 2,750,000	



Outlines



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- Need for ICU beds in Hospitals
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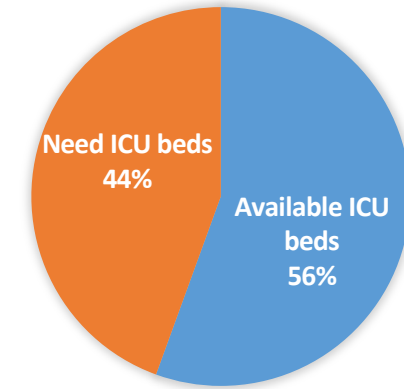
Introduction

- The coronavirus COVID-19 pandemic is the global health crisis and the greatest challenge facing Humanity since WWII (UNDP, 2021).
- The pandemic is much more than a health crisis, it's also an unprecedented socio-economic crisis (UNDP, 2021).
- Lebanese Statistics (MOPH; 19/01/2021)
 - 19.6% Positivity PCR test in the last 14 days
 - 1,200 Local incidence rate/100,000 in the last 14 days
 - Bed Occupancy (18/01/2021)
 - 2,038 Occupied hospital beds
 - 750 Occupied ICU beds (27% of admissions)
 - 222 mechanical ventilation (35% of Covid admitted cases needs ICU)
 - Mortality rate
 - 288 death/1M population
 - 1,959 deaths (33% age above 80 and 29% between 70-79)
- According to statistics, data shows that:
 - 20% asymptomatic; 15% requiring hospitalization (65% mild to moderate; and 35% of them require ICU admission)
 - 180 patients per 100.000 persons require hospital admission
 - 63 patients per 100.000 persons require ICU admission
 - Required ICU Beds: 90 beds; Available ICU beds: 50 beds
 - Needed ICU beds: 40 beds

Need for ICU beds in Hospitals

Hospital	Available ICU Beds
Shouf Region	
Ain Wazein Medical Village	23
Baakline Medical Center	0
Irfan Medical Center	0
Othman Hospital	4
Sibline Governmental Hospital	10
Mazboud Hospital	2
Baabda Region	
Al Jabal Hospital	Under construction
Aley Region	
Iman Hospital	Under construction
Medical 2000 Hospital	0
AL Watany Hospital	0
Kabrechmoun Governmental Hospital	0
Bshamoun Specialty Hospital	0
Rashaya Region	
Rashaya Governmental Hospital	4
Hasbayya Region	
Hasbaya Governmental Hospital	0
Jezzine Region	
Jezzine Governmental Hospital	7
Total beds	50

AVAILABILITY OF ICU BEDS



Cost of each ICU bed : \$ 50,000

Need to establish 40 ICU beds

According to the higher Counsel of Defense Memo; referring to MOPH accreditation hospital results (T1: >12 ICU Beds, T2: 4-8 beds ICU Beds & T3: 4 ICU beds)



COVID-19 Contingency Plan

Mount-Lebanon and South Bekaa



- Support Hospitals in equipping specialized COVID-19 ICU beds for In-patients,
- Empower Community Based Centered approach, Ensuring Home Care services and well-established Quarantine centers to:
 - Improve early treatment accessibility and decrease death rates (especially Death on arrival rates),
 - Decrease burden on Hospitals by:
 - Limiting In- Patient length of stay due by early discharge with a continuum of Homecare.
- Launch the vaccination program to enhance the herd immunity
- Support patients financially in order to ensure the accessibility to the medical services and reduce death occurrence





Intensive Care Unit



- Project description:
 - Establish ICU Units of at Least 4 beds each,
 - Capital Investment

Equipment Type	Cost USD
Major	\$ 159,850
Minor	\$ 12,140
Furniture	\$ 28,010
Total Cost of 4 ICU Beds USD	\$ 200,000



- Cost of each ICU bed : \$ 50,000





Financial Coverage of a COVID-19 patient



Total out of pocket per COVID-19 patient	A LOS	Patient's share	Average Medication	Total
Covid-19 ICU + regular bed	15	LBP 2,475,000	LBP 2,750,000	LBP 5,225,000
COVID-19 regular bed	7	LBP 1,000,000	LBP 2,750,000	LBP 3,750,000

ALOS: Average Length Of stay

Patient's share: Amount Paid by patient 10-15% (Guarantor Difference)

Medication: Remdesivir (6 Vial / 5 days) , Baricitinib (14 tab/14 days) , Actemra(800 mg/2 days)



Home Care project

- Objectives

- Providing home care services for patients infected with COVID-19 virus, and following up on their health status to avoid deterioration in their health status at their homes and delaying arrival at the hospital,
- Increasing the ability to receive patients whose health condition requires treatment for COVID-19 by freeing a number of beds as needed and activating the Early Discharge principle within a series of services aimed at ensuring continuity of care in the necessary medical treatment.

- Capital Investment: 190.000\$/100.000 population (incidence rate 1200/100.000 persons)

Capital Investment per 100.000 persons	Quantity per item	Cost per item	Total Cost
Digital Thermometer	1200	\$ 10	\$ 12,000
Digital oximeter	1200	\$20	\$ 24,000
Oxygen Generator	140	\$1,100	\$ 154,000
Total Cost (\$) per 100.000 persons			\$ 190,000

- Operating expenses (incidence rate 1200/100.000 persons)

Cost per 100.000 persons	Home Care	Quarantine Centers ¹
Medication	LBP 502,920,000	LBP 176,022,000
Meals ²		LBP 105,592,200
Total cost (LBP)/ 100.000 persons	LBP 502,920,000	LBP 281,614,200
Cost per patient (LBP) per 10 days	LBP 573.000	LBP 670.510

1- Quarantine centers are available in Werdaniyi, Bhamdoun and Shouf

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Home Care project

- Medication

Medication	% of patients in need for medication	Cost per patient (LBP) in 10 days quarantine
Standard Medication		
Aspicot 100-300mg daily	90%	LBP 3,500
Vitamin D3 100,000 IU on day 1 then 50,000 on day 3 and day 7	100%	LBP 25,900
Vitamin C 1000mg 2-6 tablets daily divided every 4-6 hours with plenty of fluids	100%	LBP 90,000
Additional Medication (Based on patient's condition)		
Lovenox 40-60mg SubQ daily	30%	LBP 122,000
Doxycycline 100mg BID for 10 days	80%	LBP 15,000
Prednisone 20mg if any drop in oxygen sat to less than 94% or CRP > 10mg/dL	30%	LBP 3,500
Ivermectin 12 mg daily for 5 days (1 tab=3 mg; 1box=10 tab)	80%	LBP 313,000
Total cost per patient per 10 days quarantine		LBP 573.000

Thank You