Guam's COVID-19 Extended Trajectory for Purposes of Intervention Efforts and Readiness Benchmarks

Governor and State Surgeon's Physician Advisory Group
COVID-19 Unified Response Effort (CURE) Task Force

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Bottom Line Up Front (BLUF)
Initial Attack Suppressed, Long War Ahead

• Trajectories presented from early last week focused on total COVID-19 + cases to help predict the immediate threat to Guam’s civilian hospital system collapsing.

• Early interventions by GovGuam, the medical community, and our society as a whole, have successfully thwarted said initial threat.

• However, new and more sophisticated models looking primarily at the trend of hospitalized COVID-19 + patients have provided us our first full scale view of what could be Guam’s war on COVID-19 over the next several weeks and months.

• Without implementing and enforcing much more strict compliance with the Governor’s social distancing and stay home orders, the models clearly show Guam suffering through the greatest casualties since WWII.
## Recap of Major Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Prior to first known COVID + case on Guam</td>
<td>General public awareness and education regarding COVID threat and precautions</td>
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<tr>
<td>Sun, Mar 15, 2020</td>
<td>Three GMH patients become first positive tests reported on Guam</td>
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<td>Mon, Mar 16, 2020</td>
<td>Order of schools &amp; non-essential GovGuam closures</td>
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<td>Thu, Mar 19, 2020</td>
<td>First major travel restrictions: 1st quarantined flight</td>
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<td>Fri, Mar 20, 2020</td>
<td>EO 2020-05: Non-essential service closures &amp; Stay Home orders v1</td>
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<td>Sun, Mar 22, 2020</td>
<td>1st COVID-19 related death</td>
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<tr>
<td>Mon, Mar 23, 2020</td>
<td>First trajectory models published</td>
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<tr>
<td>Tue, Mar 24, 2020</td>
<td>EO 2020-06: Stay Home orders v2 &amp; closure of parks &amp; beaches</td>
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4 Major Government Acts That Affect COVID-19 Spread

1. **School closures**: March 16 (day after 1st known +)

2. **Major travel restrictions**: March 19 (first quarantine flight)

3. **Closing of all non-essential services**: March 20 (E.O. 2020-05)

4. **Stay at Home Orders**: March 20,24 (E.O.2020-05& 06)
If Guam Did Nothing From Start:
Hospital Beds Needed at Peak = 16,000
Total Deaths after 5 months = 20,000

Current Trajectory
Shows 20% Decrease in Spread
Hospital Beds Needed at Peak = 6,000
Total Deaths after 5 months = 3,000

If 40% Decrease Spread
Hospital Beds Needed at Peak = 3,000
Total Deaths after 5 months = 2,000

If 50% Decrease Spread
Hospitalized at Peak = 1,000
Total Deaths after 5 months = 700

STAY HOME • SAVE LIVES
Hospitalized Census Trajectory
as of April 3, 2020

Current COVID-19 Hospital Capacity

TODAY

Goh SEIR Model Trajectory

Peak: 6,324 hospitalizations i.e. Hospital Beds Needed by June 7, 2020
Federal Medical Station
(Strategic National Stockpile)
50- and 250 - Configurations

- Primary bed in 50-bed FMS
- Adjustable back and footrest
- 1 IV pole
- 400 lb. weight capacity

US Mainland
GMH Parking Lot: ~25 tents
University of Guam Fieldhouse

Size: 56,000 sq ft

Number of Restrooms: 4 locker rooms
Distance from GMHA: 9.4 miles
Distance from GRMC: 8.9 miles
(22 min drive)
Backup Generator Capabilities: yes
Guam Surgicenter + Parking Lot

Building:
- Surg - 30 pts
- Space - 15 pts

Parking lot: 150 pts

Total = 200 pts

USACE module:
- 15 patients

BLU-MED:
- 10 patients
Modular Emergency Facilities

Australian Defence Force Controlled Environment Shelter Systems
Guam Greyhound Park

Total = 300 patient

200’ x 300’
H2HC - TYPICAL FLOOR PLAN

- CLEAN ROOMS (PPE)
- STERILE STORAGE
- CLEAN ROOMS (PPE)
- PATIENT ROOMS
- NURSE STATION
- WORK ROOM
- DIRTY LINEN
- CLEAN LINEN
- PATIENT ROOMS
- REMINDER GATE
- PATIENT ROOMS
- BREAK ROOM
- URGENT EXPOSURE ROOM
- URGENT EXPOSURE ROOM
- PATIENT ROOMS

**HOTEL PROVIDED**
1. HOTEL WI-FI
2. HOTEL PHONE SYSTEM
3. HOTEL IN-HOUSE NETWORK/TVs
4. HOTEL ICE MACHINE/VENDING
5. HOTEL PACKAGED HVAC

**ENGINEERING CHANGES**
1. MODIFIED ELEVATOR CONTROLS

**STANDARD DESIGN**
* COVID
  Non-COVID
Scalable, Tailorable, Site Adaptable

**SPECIAL MEDICAL EQUIPMENT**
1. NURSE CALL
2. STORAGE SHELVING
3. WORKSTATIONS
4. MED DISPENSING UNITS
5. VENTILATORS / FLOOR
6. "CRASH" CART / FLOOR
7. REMINDER GATES
8. EYE/HAND WASH STATIONS
Medical Barge Concept - 332 Beds