



General Overview

- Soufriere volcano Saint Vincent and the Grenadines (VCT) active since 29th December, 2020. Started with effusive eruption activity, formation of a volcanic dome, changes to crater lake and seismic activity.
- Activity increased since April 8, 2021 3:00 am. Prime Minister, VCT gave the order to evacuate the red zone on April 8, 2021 at 4:00 pm and declared the red alert. Explosive eruptions commenced at 8:42 am on April 9, 2021.
- On April 11, 2021 at 1:00 am another eruption occurred, followed by a power cut in the NE part of the Island. Power was restored at 6:00 am in Green zone. Visibility in Green zone has improved. Multiple eruptions reported during the afternoon.
- Eruption scale is similar to occurrence in 1902, not like 1979. Destruction in 1902 was bigger than 1979.
- Experts fear the pyroclastic flow, which is a hot (typically >800 °C, or >1,500 °F), chaotic mixture of rock fragments, gas, and ash that travels rapidly (tens of meters per second) away from a volcanic vent or collapsing flow front. Pyroclastic flows can be extremely destructive and deadly because of their high temperature and mobility. These flows even boil the top of the sea and burn vessels.
- Ash also falling in Barbados, Dominica, St. Lucia and Grenada. The falling ash in VCT has impacted electrical poles thereby causing electrical fires.
- Reports received of collapsed roofs.
- Normal water supply is shut off in VCT, with no use of community tanks.



HIGHLIGHTS	
Estimated # of affected persons/evacuees	16,000-20,000
# of village evacuated	30
# of shelters	75
persons in public shelters	3200
# Missing persons	TBC
# Injured persons	TBC
# Deaths	TBC
# medevacs	TBC

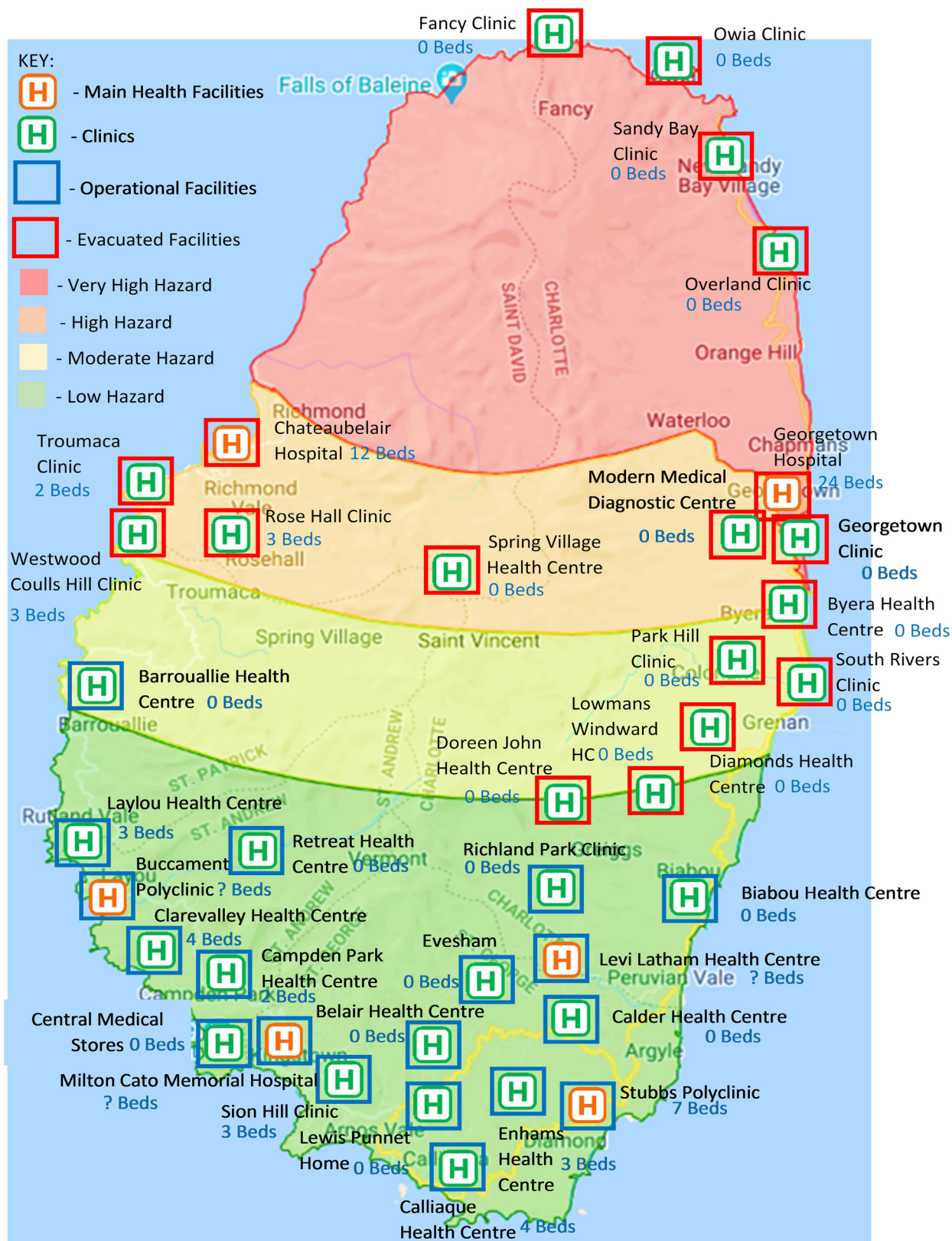
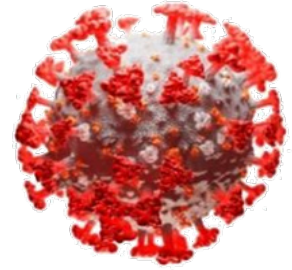


Figure 1. Map showing location of Health Care Facilities

COVID-19

- Active cases: 137
- Current COVID-19 protocols in VCT, list requirements for persons coming from high risk countries to include a negative PCR test 72 hours prior to travel and 14 days quarantine at an approved facility.
- Chief Medical Officer (CMO), VCT in a coordination meeting of the Caribbean Development Partners Group (CDPG) on April 11, 2021 informed that a 'working protocol' is now in effect for persons entering VCT as part of the humanitarian response. Persons who have a negative PCR test result, ideally within 24 – 48 hours prior to travel, will be allowed to commence work immediately. If PCR test is done 72 hours prior to travel, the person will be allowed entry but will be required to take a PCR test upon entry and await result before being approved to work. Proof of vaccination would be an asset. However, all persons will be required to wear masks and follow the protocols.



Actions Completed

- Donor alert [published](#)
- Health damage assessment by PAHO-team VCT
- Arrival of PAHO Water, Sanitation and Hygiene (WASH) Expert Ton Vlugman in VCT at on April 11, 2021 at 4:15 pm. Supplies transported, include the following items:
 - 32000 Aquatabs
 - 2160 8.63g Aquatabs
 - 2x water testing kits (advanced)
 - 2x water testing kits (normal)



PAHO WASH Expert, Ton Vlugman(2nd from right) travelled with Capt Harewood (CDEMA) and 3x WFP

General Challenges

- Persons still to be evacuated from the red zone. 72 persons picked up by Coastguard yesterday.
- Explosive eruption/gas/ashes/tremors hampering ongoing evacuations (to the south of VCT but also to neighboring member states) and humanitarian efforts
- Extensive damage/disruption to infrastructure; facilities and services (incl. airport closure)
- Extensive damage to assets and livelihoods (fisheries; agriculture)
- Insufficient/inadequate hygiene/WASH facilities at shelters to cope with number of evacuees
- Limited/temporary accommodation available to host evacuees
- Insufficient food supplies to address needs for an extended response
- Insufficient capacity of host countries to provide support to evacuees for medium-, long-term support
- Airport in Barbados remains closed.

Health Related Challenges

- Heightened risk of SARS-CoV-2 transmissions.
- Water supply is disconnected
- Water contamination could result in outbreak of water-borne illnesses
- Identify difference between COVID-19 and asthma symptoms
- Increase risk of asthma, especially in children
- Treatment of burn victims. Possibility for medevac to Guadeloupe.
- Need for safe water and food in shelters
- Need for Oxygen Cylinders and PPEs, including masks
- Need for public information in shelters and cleaning of the ash, see guidelines: <https://www.ivhnn.org/>
- Access to health for evacuees in neighboring countries
- Challenges Identified by the IVHNN team at DURHAM University.
 - Air quality monitoring - air quality monitoring on island is important:
 - Air quality should be measured to determine population exposure.
 - Special equipment is needed to conduct measurements
 - Proper clean-up and disposal of ash to avoid continuous exposure

Response Actions

National Response Efforts

- Local coast guard is continuing rescue missions¹
 - Persons who remain in Sandy Bay and North of the Dry River have been advised by Prime Minister, VCT to try to get the Owia Fisheries Complex by foot where they can be rescued by Coast Guard.

Trinidad & Tobago

- Trinidad and Tobago Defence Force (TTDF) will be arriving Tuesday 13th April 2021 for two weeks until further notice. This includes engineers, infantry/provost, medical and logistics.
- Supplies collected by the office of Disaster preparedness and Management (ODPM), Ministry of National Security will arrive on Tuesday 13 April and Wednesday 14 April. The supplies will include water, food essentials, toiletries, hygiene materials, simple medical supplies, water tanks and buckets.

Venezuela

- Navy ship with emergency supplies expected to arrive tomorrow.

1 NEMO St. Vincent and the Grenadines

PAHO Priority Response Actions

1. Damage assessment of health facilities including assessing structural and functional integrity of facilities; assessing water quality
2. Strengthening of Health Emergency Operation Centres, including support to establish alternative sites for administration of medical care
3. Support to Ministry of Health for coordination of international health response
4. Assisting with coordination of personnel for provision of psychosocial support
5. Maintenance of essential health services, including in coordination with Primary Health Clinics
6. WASH in health care facilities
7. Support with shelter management, including assisting with set up in line with shelter management guidelines in context of COVID-19
8. Infection prevention control through provision of PPEs and masks
9. Provision of Health communication materials
10. Support potential deployment of EMT's including Barbados Defence Force
11. Support air quality control measurements

Action Points

1. Update Health Needs List, including anticipated emergency medication/supplies requirements
2. Update anticipated needs for Health Service delivery
3. Start damage assessment of health sector
4. Identify water tank and pump requirements for Health Clinics in the green zone.
5. Support BDF EMT
6. Support Chief Environmental Health Officer (WASH) VCT
7. Deliver container with 60000 masks, 7000 N95 and 60000 gowns to BDF.
8. Facilitate shipment of 100000 masks to MoH VCT from PAHO Office Barbados. Transportation to be identified in coordination with WFP and CDEMA

Information Management

PAHO [situation reports](#) and donor alert

The International Volcanic Health Hazard Network (IVHHN): [a protocol for ash collection](#), [IVHHN ash protection pamphlet](#), [leaflet](#)

Volcanic ash safety videos: <https://www.ivhhn.org/information/ivhhn-videos>

CONTACT INFORMATION

Incident Manager

Mr. Clemens Buter | butercl@paho.org | (246) 826-5808

Health Cluster Lead

Dr. Yitades Gebre | gebrey@paho.org | (246) 836-5497

PAHO Contact in St. Vincent & the Grenadines

Mrs. Nicole Slack-Liburd | slacknic@paho.org | (784) 526-6000

Communication Contact

Ms. Brenda Lashley | lashleyb@paho.org | (246) 836-2671

ANNEX

Available Supplies PAHO

ITEM	QUANTITY	ITEM	QUANTITY
Generator	1	3M Pre-Filter for 51P71 & 52P71 Respirator (pack of 10)	177
Mosquito nets	100	3M Half Face Mask W/O Cartridges (EA) (B24)	10
Oral Hydration Salts (boxes)	3	3M Multiple Gas Cartridge (Multi-Acid Gas/Organic Vapour) For 6200 1/2 Mask - Pair (B30)	10
Aquatabs	40,000	3M Filter Retainer for 51P71, 52P71, 53P71(B20)	20
Aquatabs 8.68g	24,480	Bladder tank 10m3, distrib ramp, repair kit, cover	1
Water testing kits	6	Surgical Mask	100,000
Masks	100,000	Face Shield	5,000
Gas Masks	15	First responders trauma back-packs	30
Masks	60,000	Jerry cans	1,000
Gowns	60,000	Bladder tank 5m3 w/accessories, 6 point distrib. Ramp	2
N95 Mask	7,000	Bladder tank 10m3 w/accessories, 6 point distrib. Ramp	1
Streamline High-Wall Split NC System, DC Inverter 9000 BTU, 2.6KW (Installed) (OM)	4	Aquatabs 67 mg for 10 liters, box of 1,600 blister x 10 tablets	30
Streamline High-Wall Split NC System, DC Inverter 24000 BTU, 7.0KW (Installed) (OM)	2	Aquatabs 8.68 gr for 1,000 liters, bottle, x60 tablets	100
3M Dual Cartridge Respirator (Medium) (C12)	14	Aquatabs 33 mg for 5 liters, box of 10,000 tablets	15
3M Pre-Filter for 51P71 & 52P71 Respirator (pack of 10)	177	Respirators	200
3M Half Face Mask W/O Cartridges (EA) (B24)	10	Goggles	200
3M Multiple Gas Cartridge (Multi-Acid Gas/Organic Vapour) For 6200 1/2 Mask - Pair (B30)	10	Sets working gloves	50
3M Filter Retainer for 51P71, 52P71, 53P71(B20)	20	Helmets	80
Bladder tank 10m3, distrib ramp, repair kit, cover	1	Mosquito nets	100
Surgical Mask	100,000	Boots	50
Face Shield	5,000	Oxygen cylinders	100
First responders trauma back-packs	30	1000 Gallon water tanks	50
Jerry cans	1,000	Water pumps	50
Bladder tank 5m3 w/accessories, 6 point distrib. Ramp	2		

H-EOC and Shelters NEEDS LIST from Chief Medical Officer St. Vincent & the Grenadines (9-4-2021)				
Item Name	Item Description	Quantity	Cost in EC Dollars	
			Price per Item	Total Price
A/C Units		8	-	-
Water Storage	1000 Gallon	10	-	-
Refrigerator	1500 cubic meters	1	\$3,200.00	\$3,200.00
Freezer		1	\$2,600.00	\$2,600.00
Washer		1	\$2,600.00	\$2,600.00
Stove	4 burner	1	\$1,200.00	\$1,200.00
Generator		1	-	-
Folding Table	6'	4	\$350.00	-
Folding Table	4"	4	\$450.00	-
Cots		350	\$395.00	\$138,250.00
Shelves		20	\$800.00	\$16,000.00
Kettle		20	\$120.00	\$2,400.00
Blender		10	\$120.00	\$1,200.00
Bath towels		150	\$20.00	\$3,000.00
Disposable plates		1,000	-	-
Disposable Forks		2,000	-	-
Disposable spoons		2,000	-	-
Gowns	Disposable impermeable	5,000	-	-
Alcohol Pads		20,000	-	-
Face masks		20,000	-	-
Vaccine Flasks		20	-	-
Garbage Bins	Large with cover and peddle	20	-	-
Garbage Bags		40	-	-
Antigen kits		20,000	-	-
Sanitizer	hand sanitizer	50 cases	-	-
Washing Detergent		3	\$70.00	\$210.00
Face shields		20,000	-	-
Caps (Buffet)		40,000	-	-
Shoe covers		40,000	-	-
Hospital mattresses		50	-	-
Sheets	white	-	-	-
Pillowcases	white	-	-	-
Bed pans		500	-	-
Urinals		500	-	-
Water pumps		10	-	-
Water hose		20	-	-
Shovels		20	-	-
Water boots		50 pairs	-	-
Raincoats		200	-	-
O2 cylinders		100	-	-
Industrial Vaccum		4	-	-