

health

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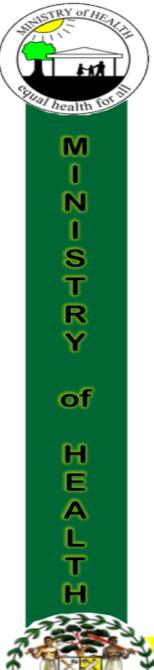
of

HEALTH

Twentieth Meeting of the Monitoring Committee of the Caribbean Development and Cooperation Committee of ECLAC" Development and Cooperation Committee of the Economic Commission for Latin America and the Caribbean

> November 4, 2021 -Francis Morey MD.MPH Belize

Office of the Director of Health Services



Content

- Country context and NCD health profile by regions
- Describe the current context of the pandemic and status of NCDs
- NCDs and death due to COVID 19
- Introduction of the Delta
- Gaps in NCDs Care



Country Profile

- * Area: 22,965 sq. km (8,867 sq. miles)
- ✤ 6 districts; 4 health regions
- Only English Speaking country in Central America
- Multi-ethnic population (Creole, Mestizo, Garifuna, Maya, East Indian, Mennonites, Chinese, Taiwanese)





- Health Regions
 - Northern Region
 - Corozal
 - Orange Walk
 - Central Region
 - Belize
 - Western region
 - Cayo District Belmopan, San Ignacio
 - Southern Region
 - Stann Creek
 - Toledo

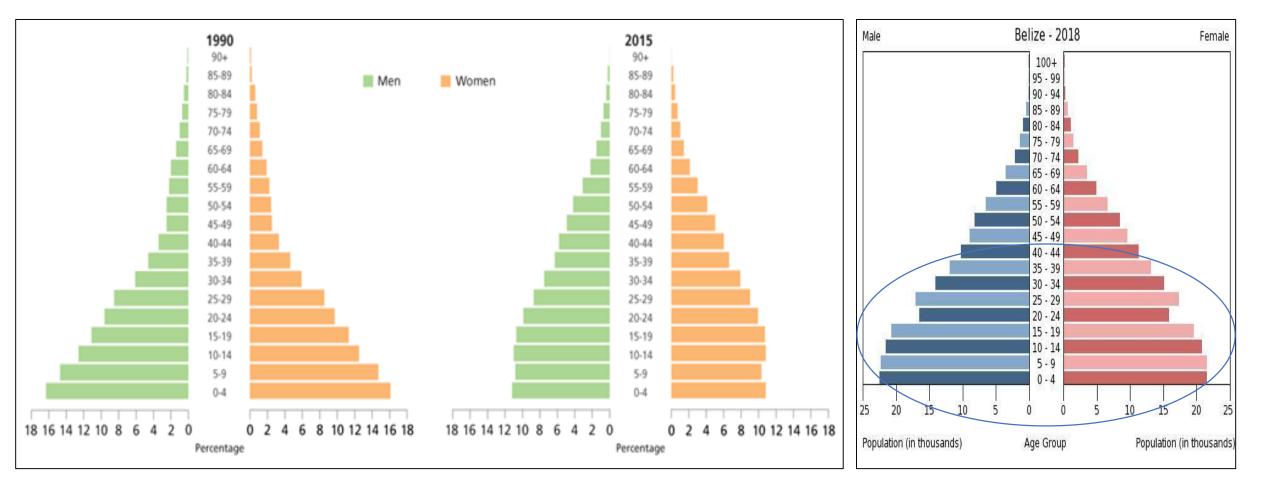
• 42 health facilities

- 1 National Referral Hospital
- 3 Regional Hospital
- 3 Community Hospital
- 8 NHI clinics
- 5 Major Private Hospitals



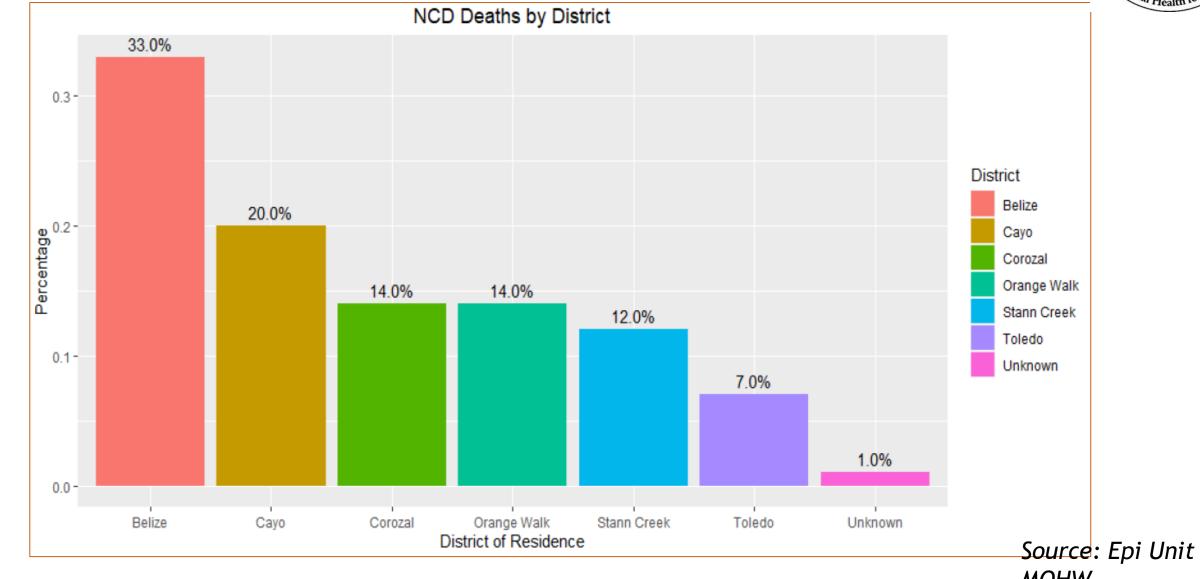
Belize Population Pyramid:





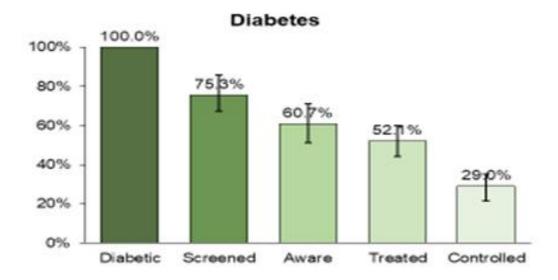
NCDS PRE-COVID

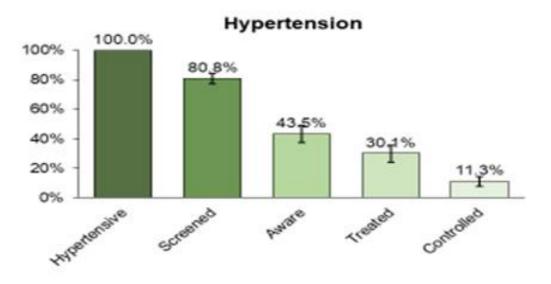




Diabetes /HTN Cascade

Belize





Key Findings CKD Survey

- ▶ The prevalence of CKD among citizens aged 20-55 years was 13.9% (Weighted).
- ▶ Female (15.0%) has higher prevalence of CKD than male (12.5%).
- Older age is associated with higher prevalence of CKD: The highest prevalence of CKD is among age group 50-55 yeas old.
- ▶ The major ethnicity group, Mestizo/Hispanic, shows higher prevalence of CKD (15.5%).
- Residents in Orange Walk and Corozal shows higher prevalence of CKD (19.3% and 17.0%, respectively).
- Potential risk factors associated with CKD in Belizean citizens aged 20-55 years include:
- > Age, Ethnicity (Mestizo/Hispanic), Diabetes, Hypertension, Hyperlipidemia, Obesity.
- ▶ Lifestyle behaviors and medication use do not show association between CKD in this survey.
- ► Female sex and obesity are highly correlated in this survey:
- Obesity might be the reason why female participants show higher prevalence of CKD.

Cancer Types 2020:

Cancer Type	Female	Male	Total	%
Cancer of the Breast	56	1	57	16.8
Cancer of an Unspecified Nature	18	17	35	10.1
Cancer of the Cervix	34	0	34	10
Cancer of the Prostate	0	20	20	5.9
Cancer of the Head and Neck	9	11	20	5.8
Cancer of the Stomach	4	15	19	5.6
Cancer of the Bronchus and Lungs	3	13	16	4.7
Cancer of the Colon	9	7	16	4.7
Leukaemia	6	10	16	4.7
Cancer of the Uterus	10	0	10	2.9
Cancer of the Brain and Nervous System	4	5	9	2.7
Non-Hodgkin's Lymphoma	2	7	9	2.7
Secondary Malignancies	7	2	9	2.7
Cancer of the Kidney and Renal Pelvis	3	4	7	2.1
Cancer of the Rectum and Anus	1	5	6	1.8
Other Female Genital Organ	0	6	6	1.8
18 other Cancers	31	20	51	15
Total	197	143	340	100.0



Source: Epi Unit

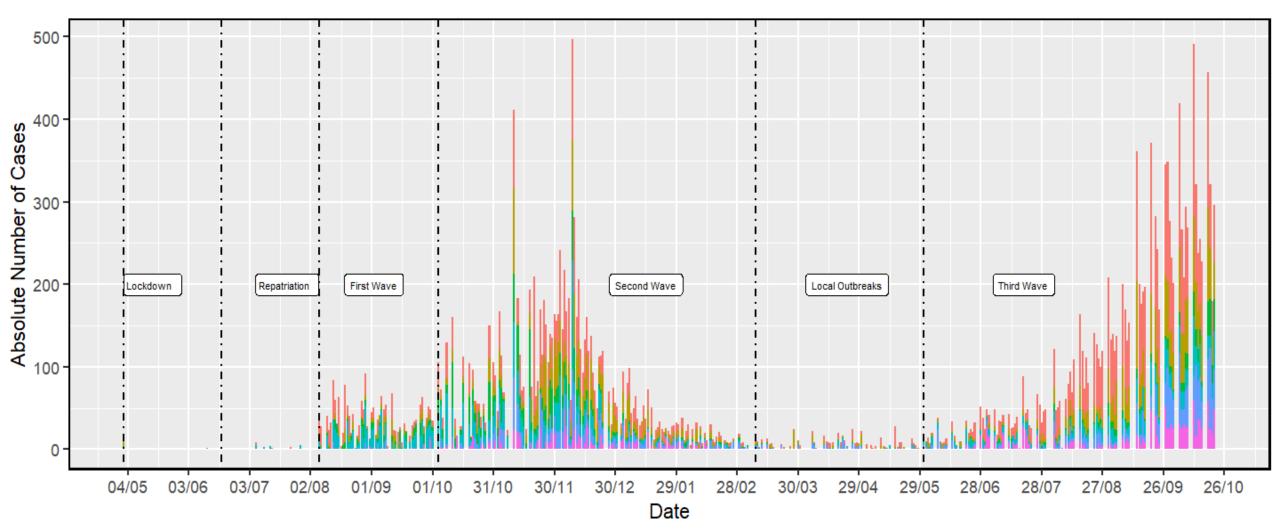
Female				Male					
Leading Causes of Death: 2020				Leading Causes of Death: 2020					
Total %					Total	%			
Total	868	100.0		Total	1,295	100.0			
Diseases of heart	142	16.4		COVID-19	178	13.7			
Malignant neoplasms	122	14.1		Diseases of heart	173	13.4			
Diabetes mellitus	100	11.5		Malignant neoplasms	138	10.7			
COVID-19	85	9.8		Assault (homicide)	100	7.7			
Cerebrovascular diseases	53	6.1		Unintentional injuries	87	6.7			
Human immunodeficiency virus (HIV) disease	38	4.4		Diabetes mellitus	66	5.1			
Essential hypertension and hypertensive renal disease	38	4.4		Human immunodeficiency virus (HIV) disease	56	4.3			
Influenza and pneumonia	27	3.1		Influenza and pneumonia	48	3.7			
Certain conditions originating in the perinatal period	22	2.5		Chronic liver disease and cirrhosis	39	3.0			
Chronic liver disease and cirrhosis	20	2.3		Certain conditions originating in the perinatal period	38	2.9			
Top 10 Total	647	74.5		Top 10 Total	923	71.3			
Signs, symptoms, and ill-defined causes	9	1.0		Signs, symptoms, and ill- defined causes	29	2.2			
All other diseases (residual)	97	11.2		All other diseases (residual)	134	10.3			
Total Other Causes	115	13.2		Total Other Causes	209	16.1			

Total		
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Leading Causes of Death: 2020		
	Total	%
Total	2,163	100.0
Diseases of heart	315	14.6
COVID-19	263	12.2
Malignant neoplasms	260	12.0
Diabetes mellitus	166	7.7
Assault (homicide)	110	5.1
Cerebrovascular diseases	98	4.5
Unintentional injuries	98	4.5
Human immunodeficiency virus (HIV) disease	94	4.3
Influenza and pneumonia	75	3.5
Essential hypertension and hypertensive renal disease	69	3.2
Top 10 Total	1,548	71.6
Signs, symptoms, and ill-defined causes	38	1.8
All other diseases (residual)	231	10.7
Total Other Causes	346	16.0
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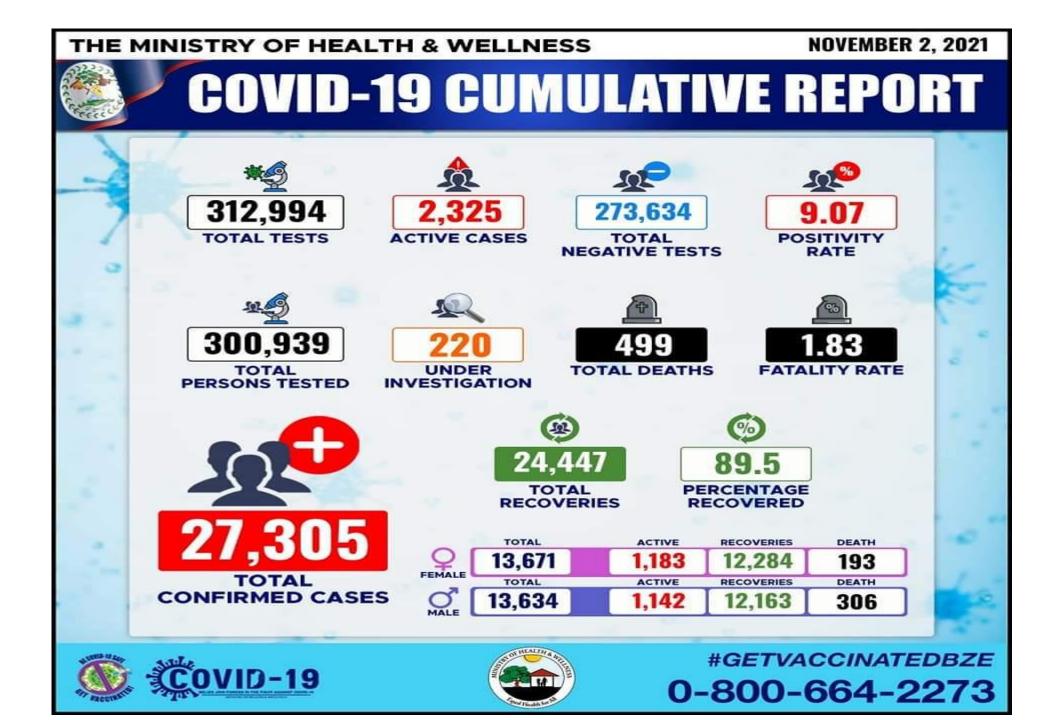
Introduction of COVID-current status

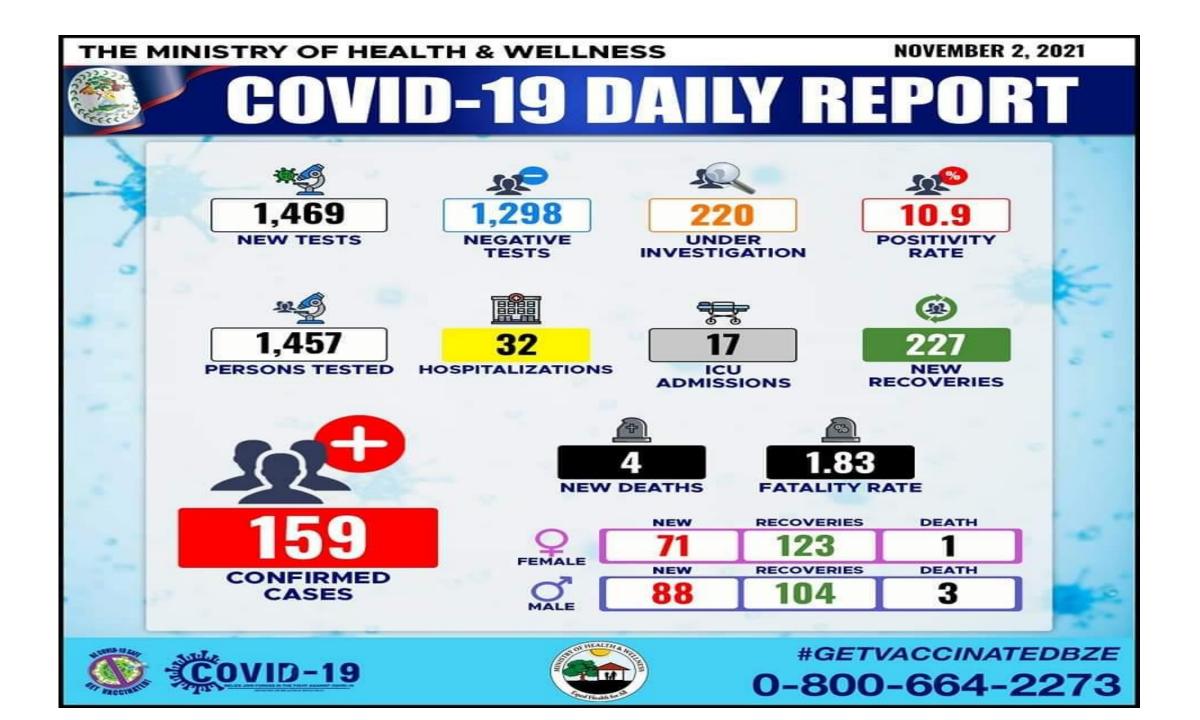
Covid-19 Cases in Belize by District From 1st March 2020 - 21st Oct. 2021

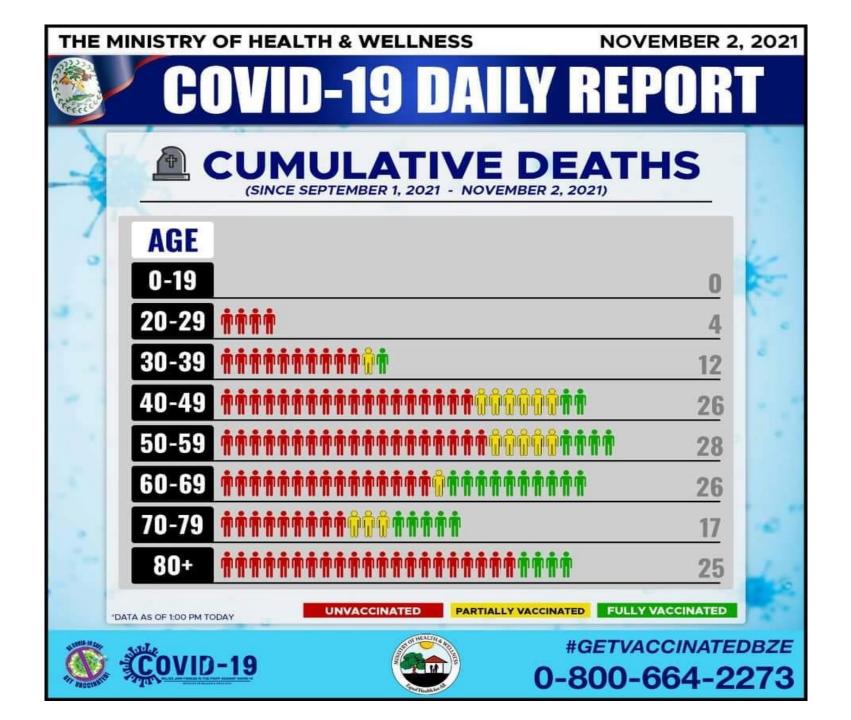




Data from BHIS, Epi Unit, Belize MoHW



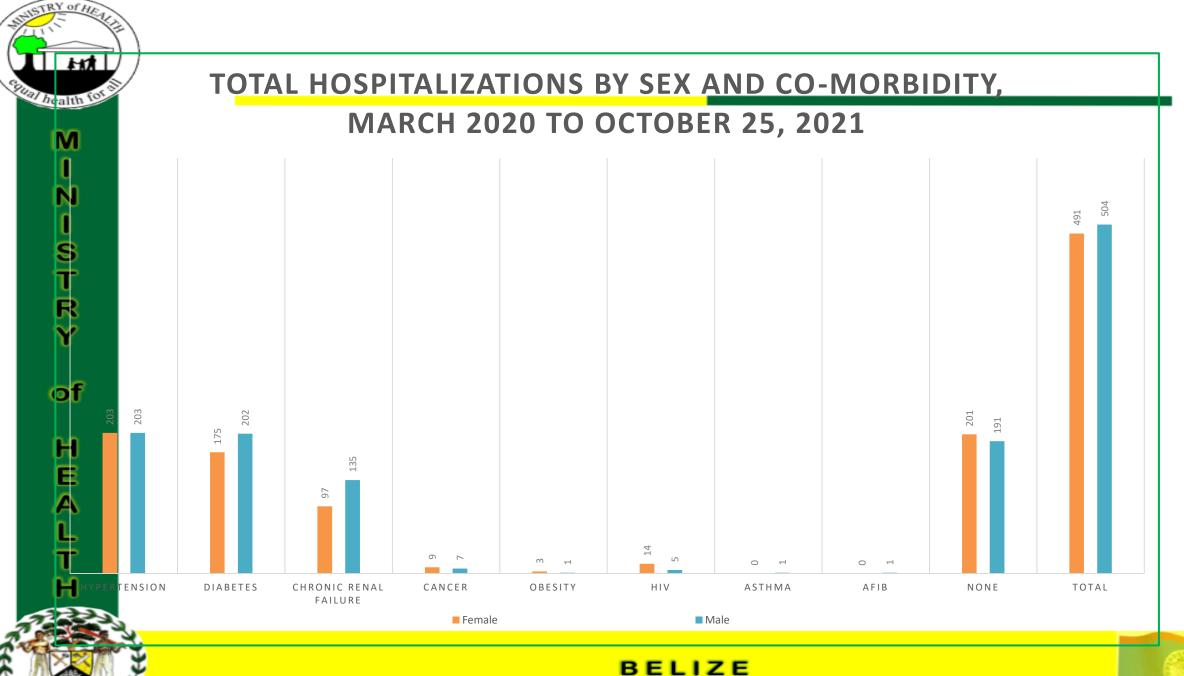


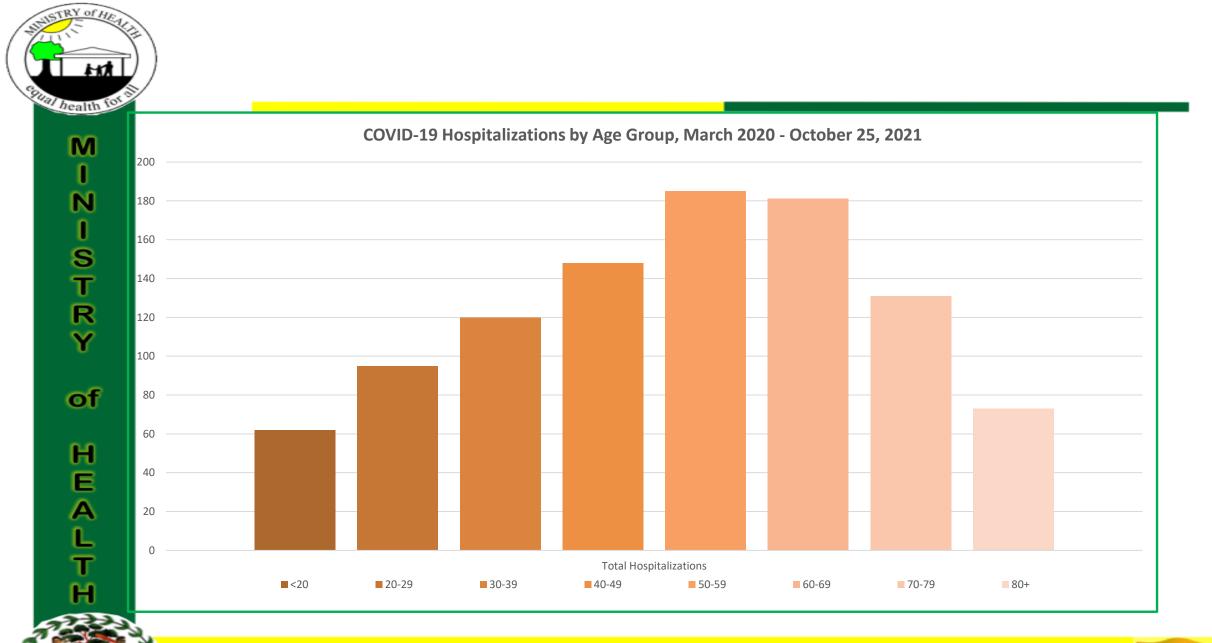






• COVID HOSPITALIZATIONS

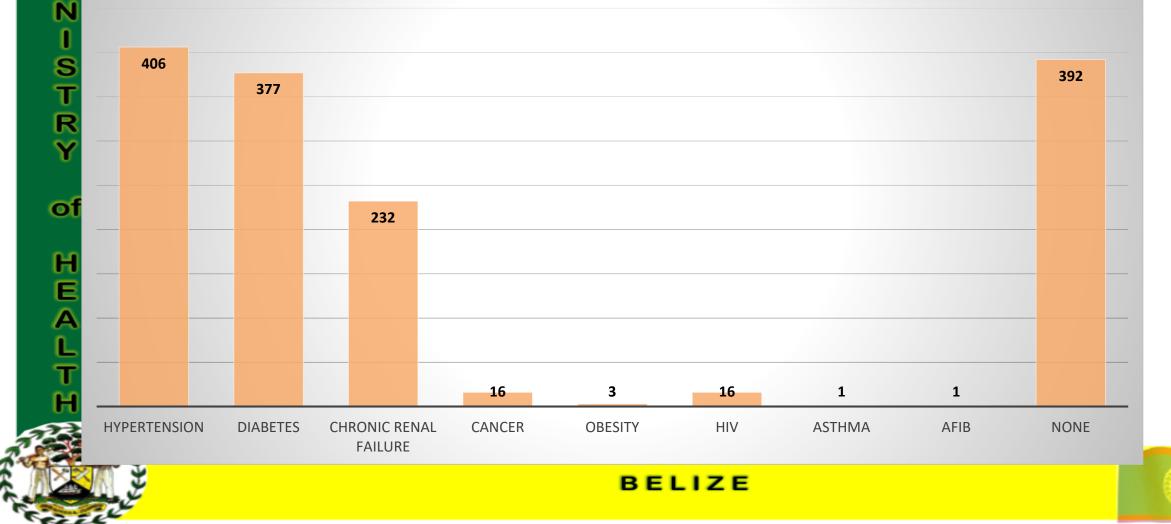




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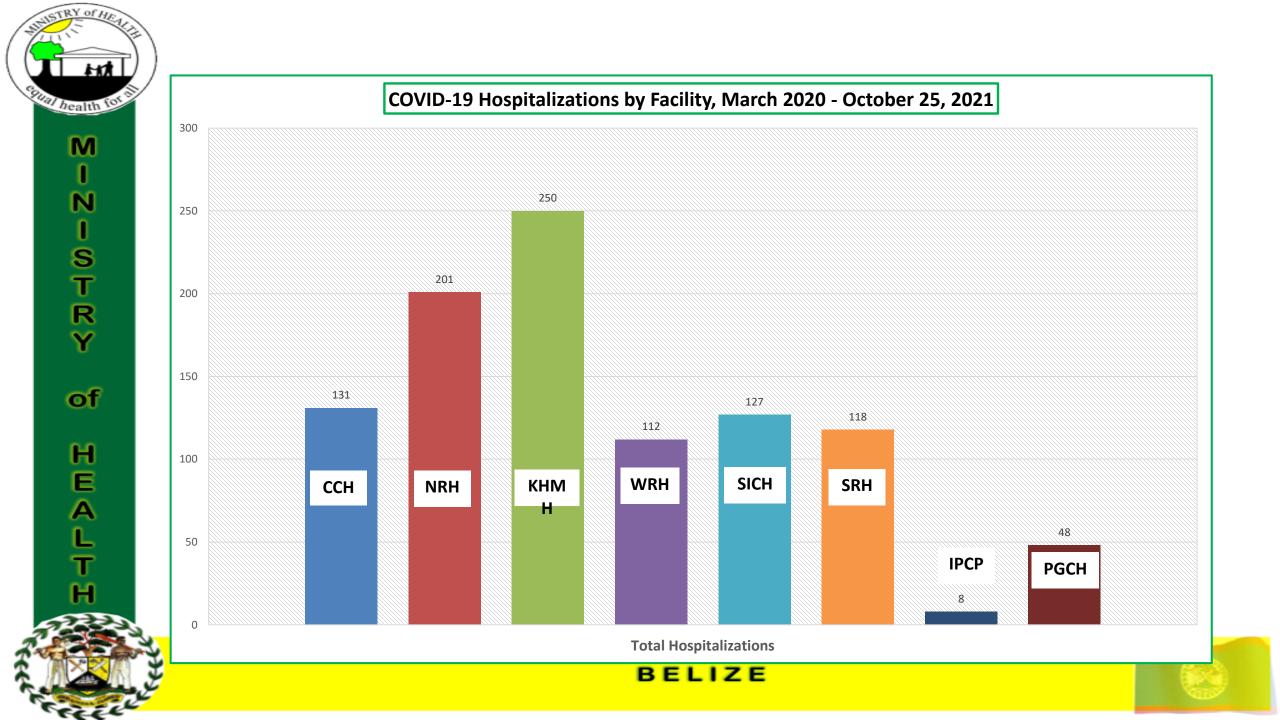


COVID-19 Hospitalizations by Age Group and Co-morbidity, March 2020 - October 25, 2021



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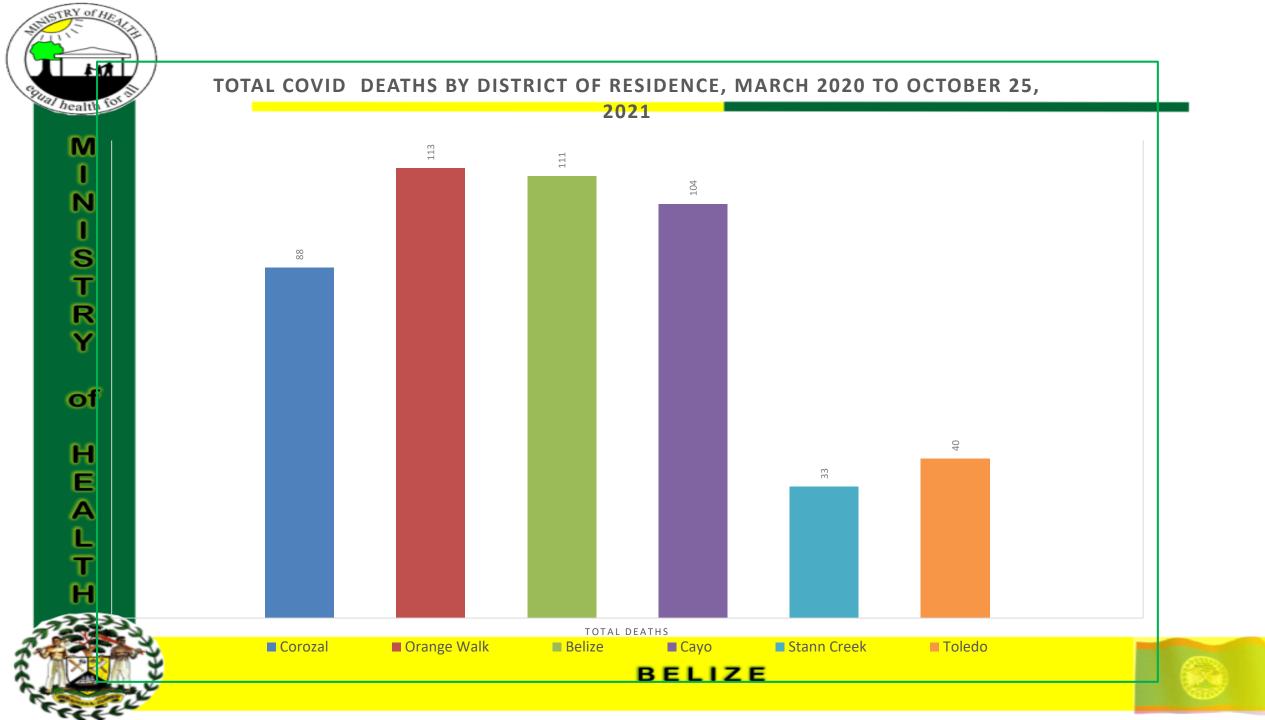


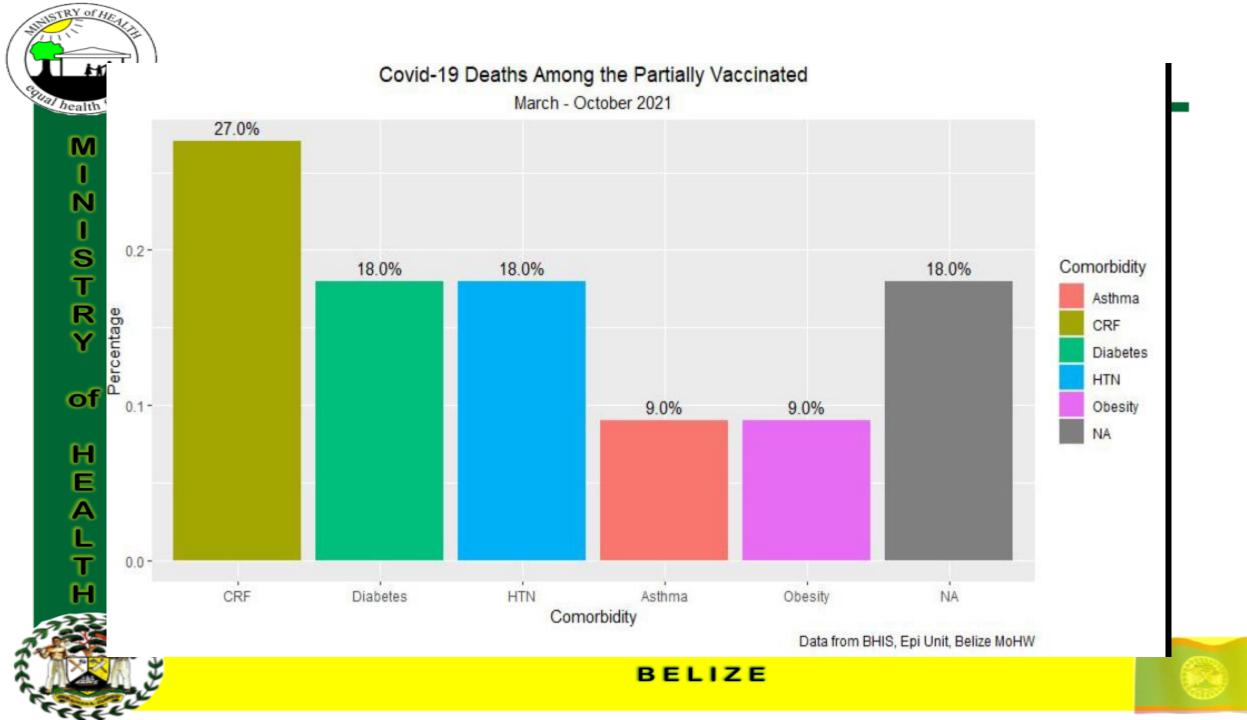


COVID Related Deaths



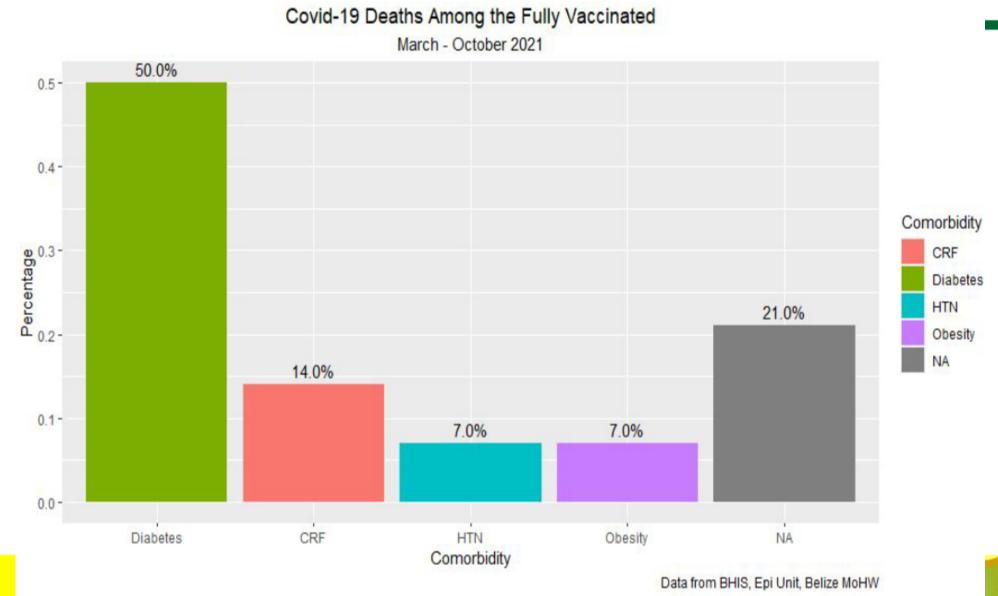


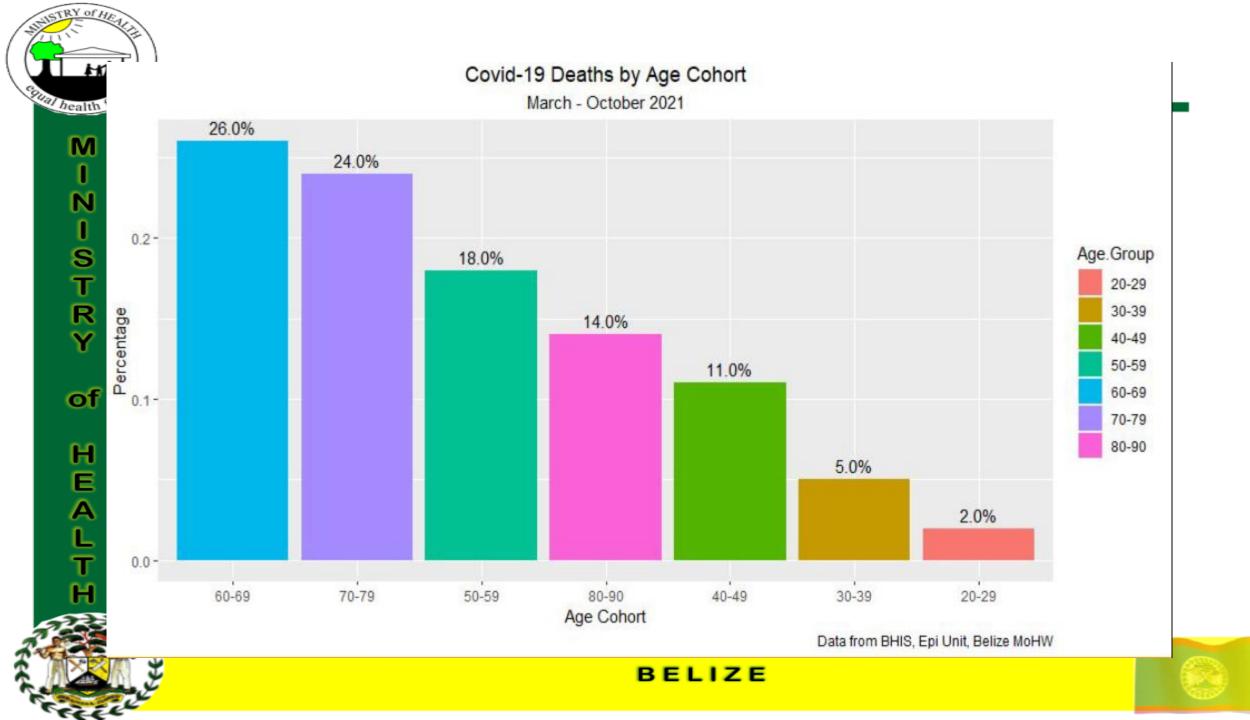




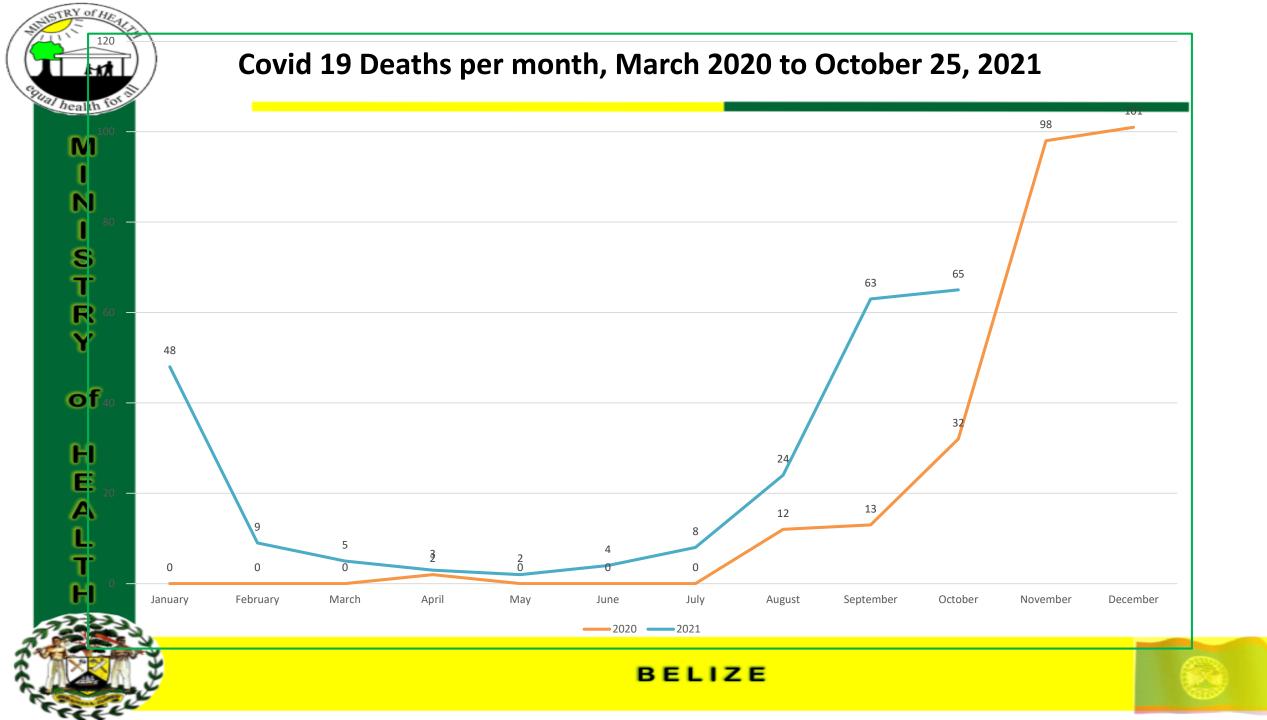


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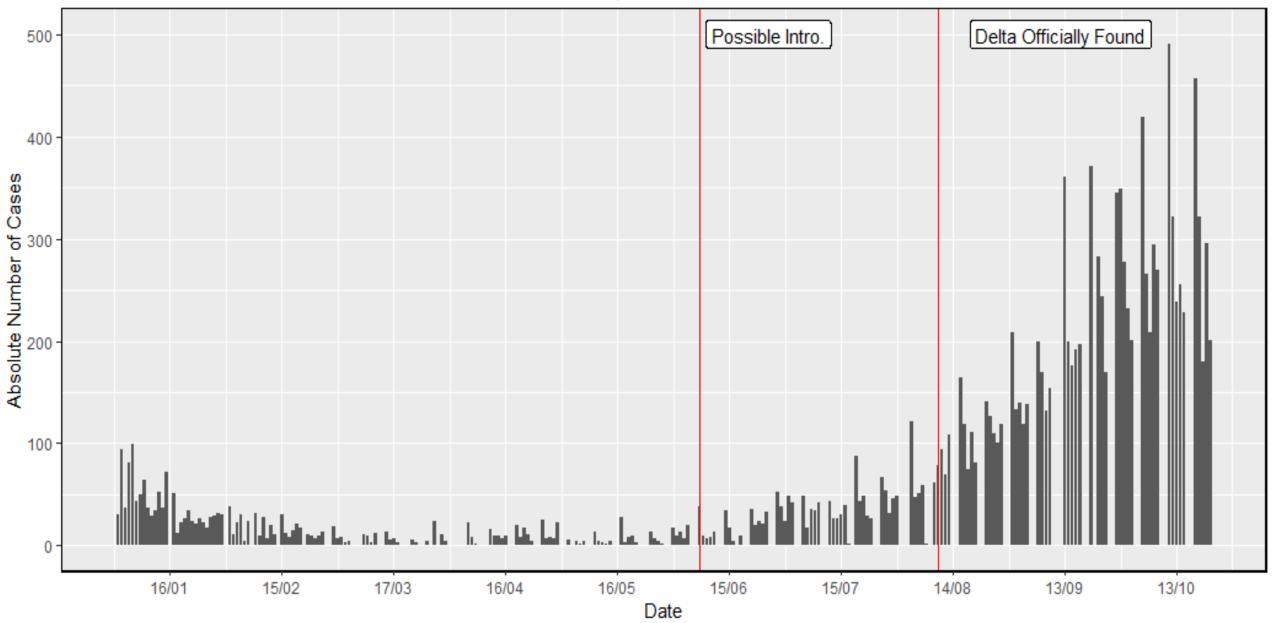
COVID-19 Deaths by District of Residence and Comorbidity (March 23 - present)											
Facility	Hypertension	Diabetes	-	-		HIV	Asthma	AFIB	None	Total Deaths	Percentage
Corozal Hospital	18	14	7	1	0	0	0	0	7	31	6.43%
Northern Regional Hospital	30	31	17	2	1	0	0	0	29	74	15.35%
Karl Heusner Memorial Hospital	95	84	73	2	6	0	1	0	44	175	36.31%
Belize Health Care Partners	2	3	1	1	0	0	0	0	7	11	2.28%
Belize Medical Associates	0	0	0	0	0	0	0	0	1	1	0.21%
Buttonwood Bay Medical Center	0	0	0	0	0	0	0	0	1	1	0.21%
San Pedro Polyclinic	1	0	2	0	0	0	0	0	3	5	1.04%
Western Regional Hospital	14	19	10	0	0	1	0	1	9	32	6.64%
San Ignacio Hospital	4	4	4	0	0	0	0	0	4	10	2.07%
Southern Regional Hospital	7	7	3	0	0	1	0	0	1	10	2.07%
Independence Polyclinic	0	0	0	0	0	0	0	0	3	3	0.62%
Independence Health Center	0	0	0	0	0	0	0	0	1	1	0.21%
Punta Gorda Hospital	1	1	0	0	0	0	0	0	1	2	0.41%
None	49	38	28	3	0	3	1	0	59	126	26.14%
Total	221	201	145	9	7	5	2	1	170	482	100.00%



Effect- Delta Variant

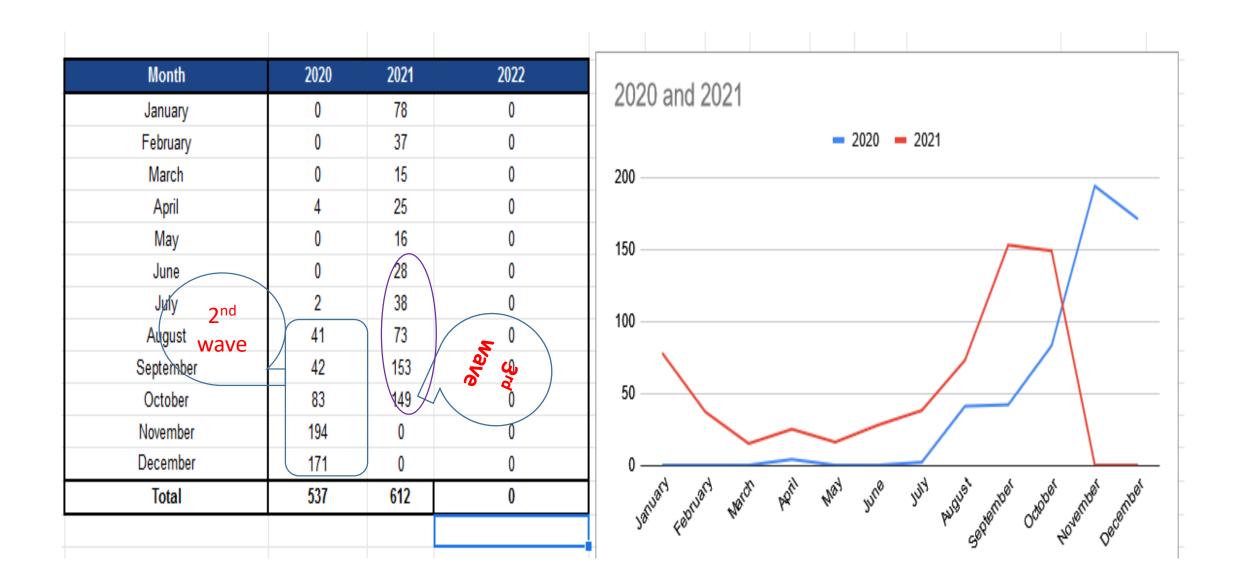
Introduction of the Delta Variant into Belize

1st January - 22nd October 2021



Data from BHIS, Epi Unit, Belize MoHW

Comparative timeline





NCDs and Gaps

1.restructuring and task shifting of essential staff according to national scenario

2.increased prices on essential medicines and reagents including controls- not able to do routine screening HBA1c others..

3.continued follow up of accessing health services due to stigma and discrimination

4.handing out of multiple month prescription and stocks

5.Laboratory technicians being sick and on prolonged leave due to COVID illness and shortage of Human resources

6.Budget allocation as per national epidemic of NCDs as per reviewed national plan and strategies



Thank You!!