

Sierra Leone Site

November 2020 Bulletin Date Updated: December 15, 2020

Child Health and Mortality Prevention Surveillance, or CHAMPS is a global surveillance network that generates, collects, analyzes and shares data to reduce child mortality in regions where it is highest. CHAMPS gathers information on all stillbirths and deaths in children <5 years that occur within a CHAMPS site. CHAMPS utilizes minimally invasive tissue sampling (MITS) -the closest proxy to the full autopsy, considered the gold standard methodology for cause of death ascertainment. After a death or stillbirth occurs, the CHAMPS team is notified and contacts the family to assess case eligibility and obtain their consent to collect basic information, including the age of the child, and the circumstances of the death. For more information visit: <https://champshealth.org/>

CHAMPS – Sierra Leone Site Characteristics:

Chiefdoms of Bombali Shebora and Siari in Bombali District and includes Makeni City

 Population: 161,383¹

 Crude birth rate: 32.4 live births per 1000 population²

 Under-5 mortality rate: 94 per 1000 live births²

 Stillbirth rate: 24.4 per 1000 total births³

492 under-5 deaths and 130 stillbirths are expected annually at the CHAMPS site.

What's New? *

On December 1, 2020, CHAMPS restarted routine MITS sampling and laboratory procedures, following consultations with communities, hospital colleagues and district leaders. You would recall that starting on April 4, 2020 until October 31, 2020, CHAMPS pivoted to support the COVID19 response in Bombali district. During that period, CHAMPS had suspended MITS sampling, but continued to remotely respond to death notifications, conduct eligibility screening and request consent to conduct non-MITS whenever government restrictions were to be lifted. CHAMPS DeCoDe panel meetings have also been conducted remotely since April 4, 2020.

November 2020 Alert Update


Unique Alerts

46

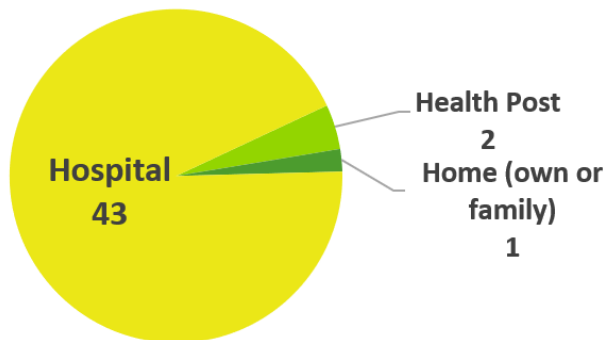
 Under-72 Months Deaths **28**

 Stillbirths **18**
CHAMPS 117 Alert Criteria:

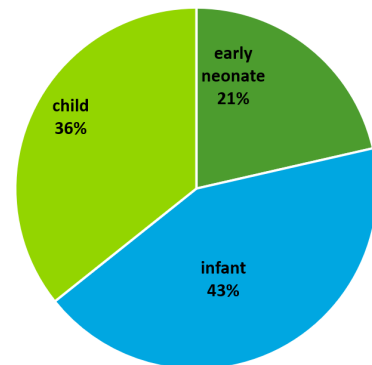
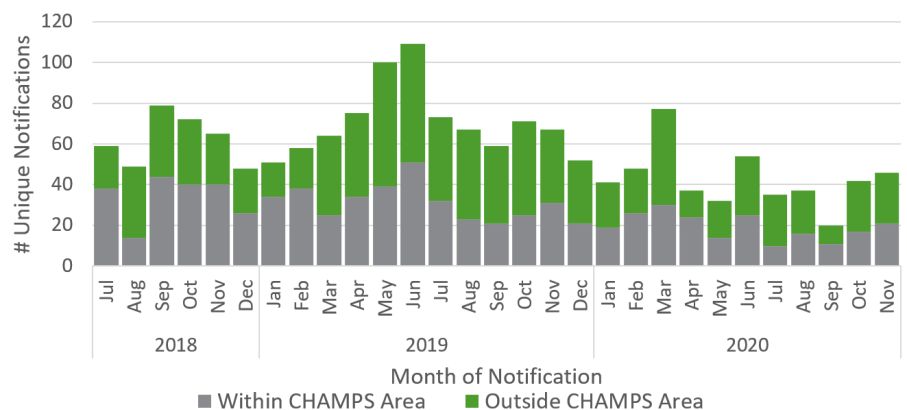

117 alert for a death from Bombali District

AND

Age Criteria: Confirmed stillbirth or less than 72 months of age


Location of Deaths

Age Distribution of Under-72 Months Deaths

Early neonate: 0-6 days
Late neonate: 7-27 days
Infant: 28 days to <12 months
Child: 12 months to < 72 months


Monthly Distribution of Unique Death Notifications to CHAMPS Surveillance


1- Statistics Sierra Leone. Population and Housing Census 2015. Summary of final results. Freetown, Sierra Leone, 2016

 2- Statistics Sierra Leone. 2018. *Sierra Leone Multiple Indicator Cluster Survey 2017*, Survey Findings Report. Freetown, Sierra Leone: Statistics Sierra Leone

3- Supplement to: Lawn JE, Blencowe H, Waiswa P, et al, for The Lancet Ending Preventable Stillbirths Series study group with The Lancet Stillbirth Epidemiology investigator group. Stillbirths: rates, risk factors, and acceleration towards 2030. Lancet 2016.

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November CHAMPS Case Update

CHAMPS Case Eligibility Criteria:

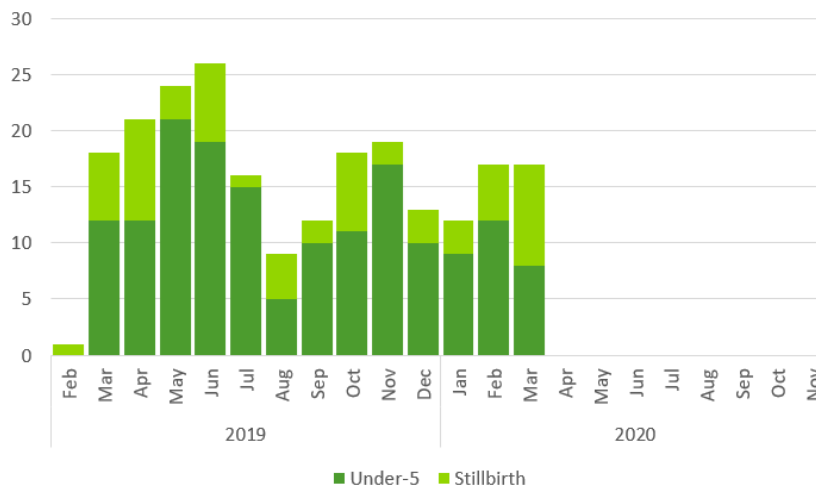
 Residence in the catchment area
(Bombali Shebora and Siari
Chiefdoms) within the last 4 months

AND

 Age Criteria: Confirmed
stillbirth or less than 60
months of age

	CHAMPS Eligible	CHAMPS Consented	MITS Eligible	MITS Consented *	MITS Conducted *
November 2020:	11	11	5	0	0
Total July 2018 - Nov. 2020:	569	522	286	222	216

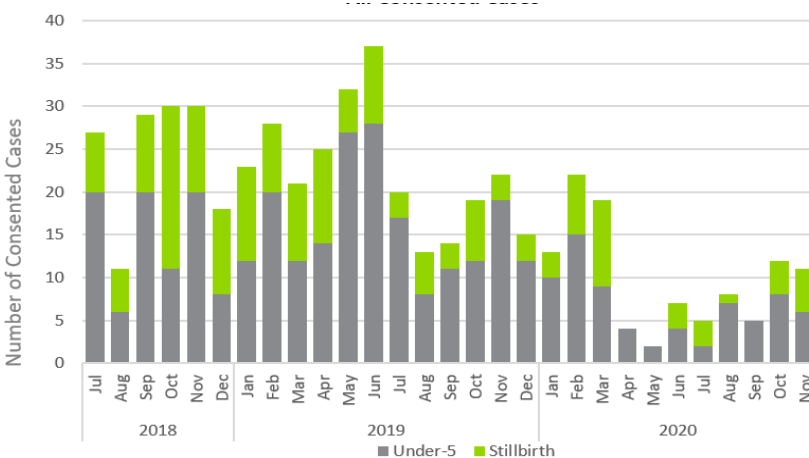
MITS Case Update—Feb. 25, 2019 to November 30, 2020



Age Category	#	%
Stillbirth	64	30%
Under-5 Total	152	70%
Early Neonate	47	31%
Late Neonate	9	6%
Infant	37	24%
Child	59	39%
Grand Total	216	-

Early neonate: 0-6 days
Late neonate: 7-27 days
Infant: 28 days to <12 months
Child: 12 months to < 60 months

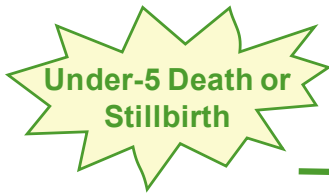
CHAMPS Case Update (includes MITS cases) - July 2018 to November 30, 2020



Age Category	#	%
Stillbirth	173	33%
Under-5 Total	349	67%
Early Neonate	110	32%
Late Neonate	25	7%
Infant	100	29%
Child	114	33%
Grand Total	522	-

Clinical Abstractions Verbal Autopsies

Conducted
Conducted
**Cases
DeCoDe'd**
**Family
Feedback**
November 2020:
7
9
13
19
Total
July 2018 - Nov. 2020:
473
437
122
109



Under-5 Death or Stillbirth

Community or Facility Reporter

117 Call Center

CHAMPS Alerts

CHAMPS Team meets with Family

CHAMPS 117 Alert Criteria:



117 alert for a death from Bombali District

AND



Age Criteria: Confirmed stillbirth or less than 72 months of age

CHAMPS Case Eligibility Criteria:



Residence in the catchment area (Bombali Shebora and Siari Chiefdoms) within the last 4 months

AND



Age Criteria: Confirmed stillbirth or less than 60 months of age

CHAMPS Minimally Invasive Tissue Sampling (MITS) Case Eligibility Criteria:



CHAMPS Case Eligibility Criteria (residence and age)

AND



Body is available

AND



Less than 24 hours between death and eligibility screening/consent

Eligibility Screening



If eligible

Informed Consent Procedures



Non-MITS

MITS

Procedures Conducted



Verbal and Social Autopsy Interview



MITS Procedure Laboratory and Histopathology testing



Clinical Record Abstraction



Verbal and Social Autopsy Interview



Clinical Record Abstraction

Public Health Action



Data Analysis



Family notification of Cause of Death



ICD-10 Coded Cause of Death



Determination of Cause of Death Expert Panel