Kiribati Annual Health Bulletin

2020

Produced by the Health Information Unit
Ministry of Health and Medical Services
Nawerewere, Tarawa, Kiribati

Minister's Foreword

The KAHB (Kiribati Annual Health Bulletin) is the only detailed publication in the Republic of Kiribati that provides health-related information. It is made-up of updated data as well as accurate health information to guide and assist decision makers in delivering an effective and efficient health care. This bulletin also contains materials for planners, researchers and those involved in the advancement of the health sector.

The bulletin contains data on the government's health division, focusing on four main areas: morbidity, mortality, resource availability and service provision. All information has been updated and revised to represent, as accurately as possible, the situation in 2020.

I am more grateful to expand my appreciation to all officials who have given their ends in providing quality data from their respected bodies and organization.

My special appreciation goes to Health Information Units staff from the Ministry of Health and Medical Service in carrying this major task in compiling and processing data toward this bulletin. Not forgetting about Dr. Nandalal Wijesekera who guide this process, a consultant on Health Information Systems for the World Health Organization.

Lastly, I place my acknowledgement to the Medical Records Department from the Ministry of Health and Medical Services for their support in publishing and disseminating the Kiribati Annual Health Bulletin 2020.

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Acronyms & Abbreviations

ARI	Acute Respiratory Infection
BH	Betio Hospital
CBR	Crude Birth Rate
CDR	Crude Death Rate
HIU	Health Information Unit
ICD	International Classification of Diseases
IMCI	Integrated Management of Children's Illness
IMF	International Monetary Fund
IMO	Intern Medical Officer
IMR	Infant Mortality Rate
IUCD	Intra Uterine Contraceptive Devise
KFHA	Kiribati Family Health Association
KHIS	Kiribati Health Information System
LBW	Low Birth Weight
LKH	London Kiritimati Hospital
MA	Medical Assistant
MHMS	Ministry of Health and Medical Services
MMR	Maternal Mortality Rate
MRD	Medical Records Department
MS1	Monthly Consolidated Statistical Report
NCD	Non-Communicable Diseases
NMR	Neonatal Mortality Rate
OPD	Out Patients Department
PHN	Public Health Nurse
SKH	Southern Kiribati Hospital
STI	Sexually Transmitted Infections
TCH	Tungaru Central Hospital
U5MR	Under-five Mortality Rate

Key Health Related Indicators at a glance

Indicator	Year	No.	Rate	Source
Demographic				
Total population	2020	125,084		SPC unpublished data, 2016 revision of PICT projections
Crude Birth Rate (per 1,000 population)	2020	3133	25.0	KHIS & MS1
Crude Death Rate (per 1,000 population)	2020	742	5.9	
Life expectancy at birth (years) Male	2020		66.8	WHO, ANACoD 2020
Female	2020		76.2	71.7
Land area (Sq. km)				National Statistics Office
Health Indicators				
Adult mortality from NCDs (30-69 years) per 10,000	2020	234	52	KHIS & MS1
Number of diabetes related amputations	2020	87		OT database
Mortality from road traffic injuries per 100,000	2020	3	2.4	KHIS & MS1
Diabetes - Occasion of service for diabetes per 1,000	2020	11,850	95	MS1
Hypertension - Occasion of service for hypertension per 1,000	2020	11,818	94	
Adolescent births rate for 10-14 years per 1,000 girls	2020	4	0.7	
Adolescent birth for 15-19 years per 1,000 girls	2020	181	32	
Contraceptive contacts (all forms) as seen at health facility per 1,000 population	2020	2,347	19	
Maternal mortality ratio	2020	3	95.8	KHIS & MS1
Neonatal death rate (per 1,000 live births)	2020	50	16.0	
Infant mortality rate (per 1,000 live births)	2020	88	28.1	
Under 5 year mortality rate (per 1,000 live births)	2020	133	42.5	
Births attended by skilled health personnel	2020	3,043	97.1	
Percentage of pregnant mothers received at least one home visit by PHN	2020	298	9.3	MS1
Access to antenatal care	2020	16,950	5.3	
Childhood measles immunisation	2020	2,695	80.7	
Malnutrition (children under 5 years)	2020	418	2.6	
Percentage of Low Birth Weight	2020	254	8.1	KHIS & MS1
TB case notification rate (all forms, per 100,000 population)	2020	385	308	MS1
Tuberculosis treatment success rate for preceding year (year 2019)	2020	379	92	TB database
Number of Leprosy cases (new and relapses)	2020	144		MS1
Acute respiratory infection (ARI) in children treated at Tungaru Central Hospital (TCH)	2020	352	21.7	KHIS
Presence of 7 International Health Regulations core capacities for surveillance and response in the Pacific				IHR focal point
Outpatient consultations per capita	2020	599,594	4.8	KHIS & MS1
Outpatient consultations per capita for TCH	2020	50,392	0.4	KHIS
Tungaru Central Hospital (patient discharges/week)	2020	5,415	104.1	
Tungaru Central Hospital (bed occupancy)	2020	35.016	84.2	
Tungaru Central Hospital (average length-of-stay)	2020	35,016	6.5	
Number of violence against women	2020	495		MS1
Percentage of Total Health Expenditure from Donors				Accounts unit
Health Work Force				
Number of Hospital Beds per 1,000 population	2020	259	2.1	KHIS
Availability of Medical Officers	2020	62	5.0	ER 2020
Availability of Dental Surgeons	2020	7	0.6	
Availability of Medical Assistants	2020	48	3.8	
Availability of Nurses	2020	361	28.9	
Availability of Midwives	2020	54	4.3	
Number of Pharmacists available	2020	7	7	
Number of Physiotherapists available	2020	5	5	
Number of Hospitals	2020	4	4	KHIS
Number of Health Centers	2020	22	22	MS1
Number of Village Clinics	2020	90	90	
Number of Hospital Beds	2020	259	259	KHIS

1. General Information

Country Background

Kiribati officially the Republic of Kiribati, is an island nation in the Central Pacific Ocean. The nation comprises 33 atolls and reef islands and one raised coral island, Banaba. Kiribati has a total land area of 726 square kilometers and are dispersed over 3.5 million square kilometers of Ocean. Their spread straddles the equator and the International Date Line (Figure 1).

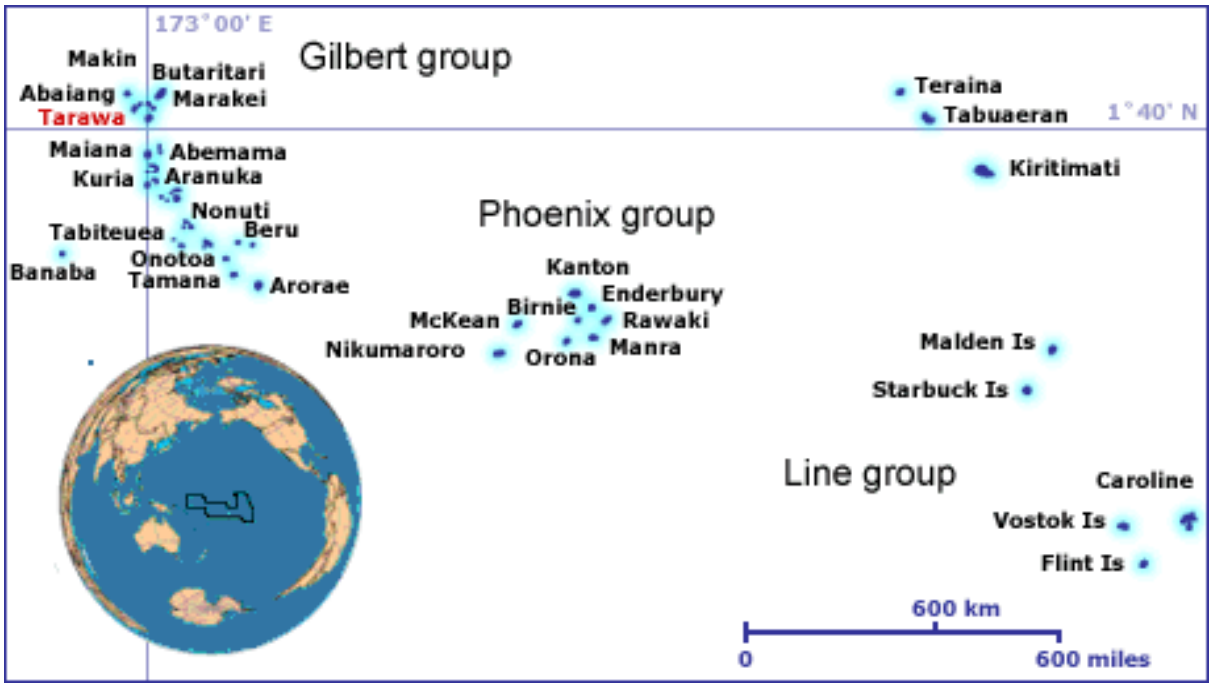


Figure 1: Map of Republic of Kiribati displaying the groups of islands

According to 2020 population and housing census the total population of Kiribati is 119,940 with 51% of that living on South Tarawa an island of 14 km^2. The vast majority (>95%) of people inhabit the Gilbert Islands with a population density of 152 and an average household size of 6.

Kiribati became independent from the United Kingdom in 1979. The capital and now most populated area, South Tarawa, consists of a number of islets, connected by a series of causeways. These comprise about half the area of Tarawa Atoll. Kiribati is a member of the Commonwealth of Nations, the IMF and the World Bank, and became a full member of the United Nations in 1999.

Administrative divisions

There are a total of 22 inhabited islands in Kiribati. Kiribati is divided into three island groups, and include Gilbert, Phoenix and Line Islands group. Most of the country's population lives in the Gilbert Islands group including the capital South Tarawa. Five of the Line Islands are uninhabited (Malden, Starbuck, Caroline, Vostok and Flint). The Phoenix Islands are uninhabited except for Kanton. Banaba itself is sparsely inhabited. Each of the 22 inhabited islands has a local council that takes care of the daily affairs. Tarawa Atoll has three councils; Betio Town Council, Te Inainano Urban Council (for the rest of South Tarawa) and Eutan Tarawa Council (for North Tarawa).

Ethnic groups

The native people of Kiribati are called I-Kiribati. Ethnically, the I-Kiribati are Micronesians. Recent archaeological evidence indicates that Austronesians originally settled the islands thousands of years ago. Around the 14th century, Fijians, Samoans, and Tongans invaded the islands, thus diversifying the ethnic range and introducing Polynesian linguistic traits. Intermarriage among all ancestral groups, however, has led to a population reasonably homogeneous in appearance and traditions.

Language

The people of Kiribati speak an Oceanic language called 'Gilbertese'. Although English is also an official language, it is not used very often outside the island capital of Tarawa. It is more likely that English is mixed in its use with Gilbertese.

Religion

Christianity is the major religion, having been introduced by missionaries in the 19th century. The population is predominantly Roman Catholic (57%), although a substantial portion of the population is Kiribati Uniting Church (31%). Many other Protestant denominations, including more evangelical types, are also represented. The Bahá'í faith religion also exists in Kiribati (2.1%), Latter Day Saints (5.3%) as well as other smaller denominations.

Health situation and trends

While the country only has a total land area of 726 square kilometres, it covers over 3.5 million kilometres of ocean, presenting significant challenges for both the healthcare and social service systems. With such a widely dispersed population, those living on outlying islands are not always able to access (or afford) an airlift or boat to the nearest medical facilities. Furthermore, the low-lying atolls of Kiribati are very vulnerable to climate change and rising sea-levels, with issues already arising from groundwater depletion, marine-life and sea-water contamination from human and solid waste, and over-fishing of the reefs and lagoons. Protection of water sources from pollution, mainly from nearby sanitation systems, is a constant public health concern. High internal migration from the outer islands to the capital, South Tarawa, coupled with ad-hoc urban planning and management has resulted in overcrowding, and inadequate sanitation. As with many countries in the Pacific region, Kiribati now faces a 'double burden of diseases'. While many challenges remain in the areas of maternal and child health and in communicable diseases, there has been an important shift

in the burden of diseases – from infectious to non-communicable diseases (NCDs). Overall, life expectancy in Kiribati is low for the Pacific region. The life expectancy at birth was estimated at 66.3 for male and 74.6 for female, according to the 2019 health data.

Organization of the Health Sector

Kiribati Ministry of Health and Medical Services (MHMS) functions and operate at four levels namely Central, District, Island and Community. The entire system from central to community level is publicly financed. Primary health care is provided through a network of health centres and outreach village clinics extending from district to community level. Essential referral care is provided through 4 referral hospitals and the main being the Tungaru Central Hospital (TCH) in South Tarawa.

Primary Health Care

Administratively Kiribati is divided into six health districts namely Tarawa & Banaba, Central, Northern, South Eastern, South Western and Linnix. Primary health care services are provided within the district health structure through a network of island health centres and village clinics.

The smallest and lower most facility based primary care service at grass root level is named as Health clinics and are manned by a specially trained Public Health Nurse (PHN). They are able to deliver a minimum package of curative and preventive health care. Health clinics are situated in each village and number at present stand at 87.

At island level, health centres provide a higher and wider range of services than a Health clinic. They provide both inpatient and outpatient services manned by a Medical Assistant (MA). The MAs either possess a degree in bachelor of nursing or a public health degree. At least one health centre is situated in each inhabited island and at present the number stands at 22.

Hospital Care

In Kiribati, secondary care is provided through four hospitals; 1 main referral and 3 district hospitals. TCH as the main referral is the specialized 117 bedded hospital in the country located in Nawerewere, South Tarawa. It provides emergency & outpatient care facilities and inward facilities in four major specialties namely Internal Medicine, Surgery, Paediatrics and Gynaecology & Obstetrics. In addition, a special ward for Tuberculosis patients and a paying ward is also present at TCH. TCH is staffed with medical specialists as well as general medical officers. It also functions as a training centre for Intern Medical Officers (IMO) and for primary health care workers. The 3 district hospitals; Southern Kiribati Hospital (SKH) situated in Tabiteuea North is a 90-bed hospital while Betio Hospital (BH) located in Betio, South Tarawa, consist of 30 beds. Another 22 bedded facility is located in Kiritimati, Line & Phoenix Islands called London Kiritimati Hospital (LKH).

Private Health Sector

The private health care facilities are not available in Kiribati at present, except for a couple of registered shops selling pharmaceuticals.

Kiribati health system

The government of Kiribati is the main provider of health services in the country. Government health facilities includes the four hospitals, 22 health centres and 90 village clinics. In addition to these health facilities there are 10 other health care providers that also report to the Health Information Unit (HIU) that include Integrated Management of Children's Illness (IMCI) clinic, TCH Outpatient clinic, Gynaecology clinic, Kiribati Family Health Association (KFHA), Diabetic, ANC and Postnatal, TB, Leprosy clinics, Youth Friendly Health Service and Healthy Family Clinic (GBV). All health care services are provided free to all Kiribati residents by the government and there is very minimal out-of-pocket spending for health. In 2020 the government spent approximately 12.1% of its total recurrent budget on health, a per capita expenditure on Health of AUD 239 for Kiribati.

2. Key Health Related Indicators with definitions

Table 1: Key Health Related Indicators with definitions

#	**Indicator** and *Definition*	**2020**
Demographic		
1.	**Total population*** *2018 Projected population (MHMS, UNICEF)*	**125,084**
2.	**Crude Birth Rate (per 1,000 population*)** *Number of live births per year (per 1,000 population)*	**25.0**
3.	**Crude Death Rate (per 1,000 population*)** *Number of deaths per year (per 1,000 population)*	**5.9**
4.	**Life Expectancy at Birth (years)** *2019 ANACoD. MHMS*	**71.7**
5.	**Land area (km^2)** *2015 Census (National Statistics Office)*	**726**
Health and Nutrition		
6	**Adult mortality rate from NCDs*** *Probability of dying between age 30-69 years from NCDs in a given year (per 10,000 population age 30-69 years)*	**52.3**
7	**Number of diabetes related to amputations** *Proportion of diabetes-related amputations (Focusing on lower limb amputations, excluding digit only and traumatic amputations not associated with diabetes)*	**87**
8	**Mortality rate from road traffic injuries*** *Probability of dying from road traffic injuries in a given year (per 100,000 population)*	**2.4**
9	**Diabetes** *Occasion of service for diabetic cases to facilities, confirmed or suspected (per 1,000 population)*	**94.7**
10	**Hypertension** *Occasion of service for hypertension cases to facilities, confirmed or suspected (per 1,000 population)*	**94.5**
11	**Adolescent birth rate for 10-14 years*** *Probability of giving birth between the age 10-14 years in a given year (per 1,000 girls age 10-14 years)*	**0.7**
12	**Adolescent birth rate for 15-19 years*** *Probability of giving birth between the age 15-19 years in a given year (per 1,000 girls age 15-19 years)*	**31.8**
13	**Contraceptive contacts*** *Total number of contraceptive contacts (all forms) seen at health facilities in one year (per 1,000 women age 15-49 yrs.)*	**108.1**
14	**Maternal Mortality Rate** *Probability of a female dying due to a maternal cause (per 100,000 live births)*	**95.8**
15	**Neonatal Mortality Rate** *Probability of dying between birth and age 28 days (per 1,000 live births)*	**16.0**
16	**Infant Mortality Rate** *Probability of dying between birth and age 1 year (per 1,000 live births)*	**28.1**
17	**Under-five Mortality Rate** *Probability of dying by age 5 years (per 1,000 live births)*	**42.5**

Table 1: (continued) Key Health Related Indicators with definitions

#	Indicator / *Definition*	2020
18	**Birth attended by skilled health personnel** *Percentage of live births attended by skilled health personnel in a given year*	**97.1**
19	**Percentage of pregnant mothers received at least one home visit by PHN** *The average number of home visits by PHN per mother in one year*	**9.3**
20	**Access to antenatal care** *The average number of antenatal clinic visits attended per mother in one year*	**5.3**
21	**Children immunized against measles*** *Percent of children (aged <1 year) who have received one dose of measles-containing vaccine in one year*	**80.7**
22	**Malnourished children <5 years** *Percentage of children (aged <5 years) classified as malnourished or severely malnourished in the MS1 Health Facility Monthly Reporting Form*	**2.6**
23	**Percentage of Low Birth Weight** *Percentage of having a low birth weight (<2500g) baby (per 100 live births)*	**8.1**
24	**Tuberculosis case notification rate*** *The number of bacteriologically confirmed (new and relapse) tuberculosis cases in a given year (per 100,000 population)*	**308**
25	**Tuberculosis treatment success rate** *Percentage of new, bacteriologically confirmed smear-positive tuberculosis cases that were cured or in which a full course of treatment was completed*	**92**
26	**Number of Leprosy cases (new and relapses)**	**144**
27	**Acute respiratory infection (ARI) in children treated at Tungaru Central Hospital*** *Number of children (aged 0-59) months who had 'presumed pneumonia' (moderate or severe ARI) and were taken to Tungaru Central Hospital (per 1,000 population)*	**21.7**
28	**Outpatient consultations per capita*** *Number of visits for ambulant care, not including immunizations, for the total population (including repeat visits) per capita*	**4.8**
29	**Outpatient consultations per capita for Tungaru Central Hospital*** *Number of visits to Tungaru Central Hospital for ambulant care, not including immunizations, for the total population (including repeat visits) per capita*	**0.4**
30	**Tungaru Central Hospital (patient discharges)** *Weekly average number of patients discharged from all TCH wards in a given year*	**104.1**
31	**Tungaru Central Hospital (bed occupancy)** *Proportion of available acute inpatient beds that have been occupied over one year*	**84.2**
32	**Tungaru Central Hospital (average length-of-stay)** *Average number of days patients spend in hospital*	**6.5**
33	**Number of violence against women**	**495**
34	**Percentage of Total Health Expenditure from Donors**	**26%**
Health Resources		
35.	**Number of Hospital Beds per 1,000 population***	**2.1**
36.	**Availability of Medical Officers*** *Number of Medical Officers in a given year (per 10,000 population)*	**5.0**
37.	**Availability of Dental Surgeons*** *Number of Dental Surgeons in a given year (per 10,000 population)*	**0.6**

Table 1: (continued) Key Health Related Indicators with definitions

#	**Indicator /** *Definition*	**2020**
38	**Availability of Medical Assistants** *Number of Medical Assistants in a given year (per 10,000 population)*	**3.8**
39.	**Availability of Nurses*** *Number of Nurses in a given year (per 10,000 population)*	**28.9**
40.	**Availability of Midwives*** *Number of Midwives in a given year (per 10,000 population)*	**4.3**
41.	**Number of Pharmacists available**	**7**
42.	**Number of Physiotherapists available**	**5**
43.	**Number of Hospitals**	**4**
44.	**Number of Health Centers**	**22**
45.	**Number of Village Clinics**	**90**
46.	**Number of Hospital Beds**	**259**

3. Demographic Information

Crude Birth Rate: Number of live births per year (per 1,000 population): **25.0**

CBR =	Number of live births (3,133) / Total population (125,084)	X 1,000

Methodological/System Issues:

- 2020 projected population is used as the base population
- Data for 2020 has been sourced from the KHIS & MS1
- Births with unrecorded outcomes were counted as live births.

Crude Death Rate: Number of deaths per year (per 1,000 population): **5.9**

CDR =	Number of deaths (742) / Total population (125,084)	X 1,000

Methodological/System Issues:

- 2020 projected population is used as the base population
- Data for 2020 has been sourced from the KHIS & MS1
- Mortality data is weak
- Mortality data is derived from the final diagnoses documented in the Medical Records (MRs) since death certificates are not issued to majority of deaths. Hence the actual underlying cause(s) of death could be deferent from the current cause(s) of death data.
- Strengthened use of Death Certificate at TCH would also contribute to better quality number of deaths and cause of deaths.

4. Health Resources

Table 2: Health institutions in Kiribati

Type of health facility	No.
Hospitals	4
Island Health Centers	22
Village Clinics/Dispensaries	90
Total number of health institutions	**116**

Source: KHIS and MS1 as of 31.12.2020

Number of Hospital Beds: 205

Table 3: Bed strength and location of leading hospitals

Hospital	Location	No. of Beds
Tungaru Central Hospital (TCH)	Nawerewere, Tarawa	117
Southern Kiribati Hospital (SKH)	Tabiteuea, Southern Island	90
Betio Hospital (BH)	Betio, South Tarawa	30
London Kiritimati Hospital (LKH)	Kiritimati, Line & Phoenix Islands	22
	Total bed strength	**259**

Source: KHIS as of 31.12.2020

Number of Hospital Beds per 1,000 population: 2.1

Number of Hospital Beds per 1,000 population =	$\frac{\text{Total number of Hospital Beds available (259)}}{\text{Total population (125,084)}}$	X 1,000

Methodological/System Issues:

- 2020 projected population is used as base population.
- Data for 2020 has been sourced from the KHIS, BH, SKH, LKH

TCH Bed Occupancy Rate: Proportion of available acute inpatient beds that have been occupied over one year: **84.2**

TCH Bed Occupancy Rate =	Total In-patient Service Days (35,016) / Total Bed Days (41,610)	X 100

Methodological/System Issues:

- Data for 2020 has been sourced from the KHIS
- Strengthened reporting and timely completion of data loading to KHIS from TCH would contribute to more accurate figures.

TCH (average length-of-stay): Average number of day's patients spend in hospital: **6.5**

TCH Average Length-of-stay =	Total In-patient Service Days (35,016) / Total number of admissions (5,415)

Methodological/System Issues:

- Data for 2020 has been sourced from the KHIS
- Strengthened reporting and timely completion of data loading to KHIS from TCH would contribute to more accurate figures.

Table 4: In-patient days, Bed days and Bed occupancy rates for TCH

Ward	In-patients days	Bed days	Bed occupancy [%]
TCH-Medical	8,285	8,030	103.2
TCH-Surgical	7,841	8,030	97.6
TCH-Paediatric	5,396	9,855	54.8
TCH-Obstetric	8,472	7,665	110.5
TCH-Private	2,202	2,920	75.4
TCH-ICU	2,820	5,110	55.2
Total	**35,016**	**41,610**	**84.2**

Source: KHIS as of 31.12.2020

5. Country Health Manpower

Availability of Medical Officers: Number of Medical Officers (per 10,000 population): **5.0**

Medical Officers per 10,000 population =	Total number of Medical Officers enrolled for the year (62) / Total population (125,084)	X 10,000

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Health manpower data for 2020 has been sourced from the ER 2020, MHMS.

Population per Medical Officer: Population: Medical Officer Ratio: **2,017.5**

Population per Medical Officer =	Total population for the year (125,084) / Total number of Medical Officers enrolled for the year (62)

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Health manpower data for 2020 has been sourced from the ER 2020, MHMS.

Availability of Dental Surgeons: Number of Dental Surgeons (per 10,000 population): **0.6**

Dental Surgeons per 10,000 population =	Total number of Dental Surgeons enrolled for the year (7) / Total population (125,084)	X 10,000

Methodological/System Issues:

- 2020 projected population is used as base population.
- Health manpower data for 2020 has been sourced from the ER 2020, MHMS.

Population per Dental Surgeon: Population: Dental Surgeon ratio: **17,869.1**

Population per Dental Surgeon =	Total population for the year 125,084) / Total number of Dental Surgeons enrolled for the year (7)

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Health manpower data for 2020 has been sourced from the ER 2020, MHMS.

Availability of Medical Assistants: Number of Medical Assistants (per 10,000 population): **3.8**

Medical Assistants per 10,000 population =	Total number of Medical Assistants enrolled for the year (48) / Total population (125,084)	X 10,000

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Health manpower data for 2020 has been sourced from the ER 2020, MHMS.

Population per Medical Assistant: Population: Medical Assistant ratio: **2,605.9**

Population per Medical Assistant =	Total population for the year (125,084) / Total number of Medical Assistants enrolled for the year (48)

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Health manpower data for 2020 has been sourced from the ER 2020, MHMS.

Availability of Nurses: Number of Nurses (per 10,000 population): **28.9**

Nurses per 10,000 population =	Total number of Nurses enrolled for the year (361) / Total population (125,084)	X 10,000

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Health manpower data for 2020 has been sourced from the ER 2020, MHMS.

Population per Nurse: Population: Nurse ratio: **346.5**

Population per Nurse =	Total population for the year (125,084) / Total number of Nurses enrolled for the year (361)

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Health manpower data for 2020 has been sourced from the ER 2020, MHMS.

Availability of Midwives: Number of Midwives (per 10,000 population): **4.3**

Midwives per 10,000 population =	Total number of Midwives enrolled for the year (54) / Total population (125,084)	X 10,000

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Health manpower data for 2020 has been sourced from the Nursing division, MHMS.

Population per Midwife: Population: Midwife ratio: **2,316.4**

Population per Midwife =	Total population for the year (125,084) / Total number of Midwives enrolled for the year (54)

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Health manpower data for 2020 has been sourced from the Nursing division, MHMS.

Table 5: Health manpower for Kiribati health institutions

Hospital	Medical Consultants	MOs	IMOs	Dental Surgeons	MAs	Nurses	PHN	Pharmacists	Physio's	Total
TCH	9	29	11	5	6	161		6	4	**231**
SKH		4		1		23				**28**
BH		3				29				**32**
LKH	2	2		1	5	21		1	1	**33**
Health Centre					22					**22**
Village Clinic					14		115			**129**
Te Meeria Ward		2			1	12				**15**
Total	**11**	**40**	**11**	**7**	**48**	**246**	**115**	**7**	**5**	**490**

Source: ER 2020, MHMS

Table 6: Location and staff availability of Health Centers and Village Clinics

Island	Health Centre	Village Clinic	Staff availability		
			MA*	SCH/N	PHN**
Makin	Makin	Anrawa	1		1
		Kiebu			1
Butaritari	Butaritari	Kuma	1	1	1
		Nakiroro			1
		Tekananuea			1
		Tanimaiaki (Butaritari)			1
		Ukiangang			1
		Bikati			1
		Keuea			1
Marakei	Rawannawi	Tekarakan	1		1
		Bainuea			1
		Terawarawa			1
		Raweai			1
Abaiang	Taburao	Nuotaea	1	1	1
		Taniau			1
		Ribono			1
		Tebunginako			1
		Koinawa			1
		Tanimaiaki (Abaiang)			1
		Ubwarano			1
		Tuarabu			1
		Nikuao ***(New Clinic 2020)***			1
Tarawa North	Abaokoro	Tearinibai	1	1	1
		Buariki (Tarawa North)			1
		Tabonibara			1
		Taratai			1
		Tabiteuea			1
		Nabeina			1
		Notoue			1
		Kainaba			1
TUC		Buota	1		1
		Bonriki	1		2
		Temwaiku	1		2
		Bikenibeu East	1		2
		Bikenibeu West	1		2
		Eita	1		2
		Ambo	1		1
		Banraeaba	1		2
		Teaoraereke	1		2
		Nanikai			1
		Bairiki	1		5
		Bonriki (Bentekota)			1
BTC		Temanoku (BTC)	1		2
		Takoronga	1		2
		Temakin	1		2

Island	Health Centre	Village Clinic	Staff availability		
			MA*	SCH/N	PHN**
Banaba	Banaba	-	1		1
Maiana	Tabontekeekee	Tekaranga	1		1
		Bubutei			1
		Tebikerai			1
		Tanimaeao			
Kuria	Kuria	Oneke	1		1
Aranuka	Aranuka	Takaeang	1		1
		Baurua			1
Abemama	Kariatebike	Abatiku	1	1	1
		Tabiang			1
		Tekatirirake			1
		Baretoa			1
		Kabangaki			1
		Tebwanga			1
		Manoku			1
Nonouti	Tebobonga	Temotu	1		1
		Teuabu			1
		Abamakoro			1
		Mataboou			1
		Rotimwa			1
		Taboiaki			
		Temanoku (Nonouti)		1	
Tab North	Utiroa	Tanaeang	1	1	1
		Buota			1
		Tenatorua			1
		Aiwa			1
		Tekabuibui			1
		Kabuna			1
		Tauma			1
		Tekaman			1
Tab South	Buariki	Tewai	1		1
		Taku			1
Onotoa	Buraitan	Aiaki	1		1
		Tabuarorae			1
		Tekatana			1
		Otoae			1
Beru	Temara	Namon	1	1	1
		Aonnati			1
Nikunau	Nikumatang	Muritoa	1		1
		Mwanrunga			1
Tamana	Motoia	-	1		1
Arorae	Taribo	-	1		1
Kiritimati	London	London	2		2
		Banana			1
		Poland	1		
		Tabwakea			1

Island	Health Centre	Village Clinic	Staff availability		
			MA*	SCH/N	PHN**
		Banana2 ***(New Clinic 2020)***			1
Tabuaeran	Paelau	Napali	1		1
		Aramari			1
Teraina	Arabata		1		1
Kanton	Canton	-	1		
		Total	**37**	**7**	**108**

6. Morbidity and mortality statistics for Tungaru Central Hospital (TCH)

Outpatient consultations per capita for Tungaru Central Hospital: Number of visits to Tungaru Central Hospital for ambulant care, not including immunizations, for the total population (including repeat visits) per capita: **0.4**

OPD consultations per capita (for TCH) =	Total number of outpatient consultations at TCH for the year (50,392) / Total population (125,084)

Methodological/System Issues:

- Data for 2020 has been sourced from the KHIS
- Strengthened reporting and timely completion of data loading to KHIS from TCH would contribute to more accurate figures.

TCH (patient discharges): Weekly average number of patients discharged from all TCH wards in a given year: **104.1**

TCH (weekly patient discharges) =	Total number of discharges for the year from TCH (5,415) / Number of weeks per year (52)

Methodological/System Issues:

- Data for 2020 has been sourced from the KHIS.
- Strengthened reporting and timely completion of data loading to KHIS from TCH would contribute to more accurate figures.

ARI in children treated at TCH: Number of children (aged 0-5) years who had 'presumed pneumonia' (moderate or severe ARI) and were taken to TCH (per 1,000 population): **21.7**

TCH ARI Moderate/Severe =	Total number of ARI cases (0-5 years) seen at TCH(352) / Total (0-5 years) population (16,191)	X 1,000

Methodological/System Issues:

- 2019 projected population is used as base population.
- Data for 2020 has been sourced from the KHIS
- Morbidity data is aggregated in MS1 and therefore unable to disaggregate into disease groups. Hence unable to separate 0-5 years ARI cases.
- This indicator requires a survey to be undertaken.

Outpatient consultations per capita: Number of visits for ambulant care, not including immunizations, for the total population (including repeat visits) per capita: **4.8**

OPD consultations per capita (all health institutes) =	Total number of outpatient consultations for the year (599,594) / Total population (125,084)

Methodological/System Issues:

- 2020 projected population is used as base population.
- Data for 2020 has been sourced from the MS1

Table 7: Basic patient statistics for TCH

Category	Grand Total	Total		Less than 1yr		1-4yrs		5-15yrs		16-29yrs		30-69yrs		70+yrs		Age unrecorded	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
OPD visit	**22865**	9351	13514	175	175	428	447	766	1040	2984	4787	4856	6848	109	191	33	26
Special Clinics	**27527**	9991	17536	551	420	814	632	913	1042	1514	4815	5816	10009	355	578	28	40
EOPD Encounter	**3269**	1340	1929	18	25	236	176	99	104	216	467	679	1049	89	104	3	4
Hospital Admissions	**5491**	1592	3899	156	110	270	218	85	70	169	1577	797	1814	114	110	2	0
EOPD Deaths	**32**	20	12		1	1		1			1	1		15	7	2	3
Inpatient Deaths	**334**	181	153	20	18	8	3	9	9	5	3	12	9	104	89	22	22

Source: KHIS as of 31.12.2020

Table 8: Inpatient Morbidity Statistics for TCH: according to Age, Sex and Ward category

Ward Category	Grand Total	Total		Less than 1yr		1-4yrs		5-15yrs		16-29yrs		30-69yrs		70+yrs		Age Unrecorded	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
TCH-Gynae	**262**		262						4		101		154		3		
TCH-ICU	**79**	28	51					2	1	6	20	17	29	3	1		
TCH-Medical	**919**	488	431					6	8	55	53	369	293	58	77		
TCH-Obstetric	**2328**		2328						4		1335		989				
TCH-Paediatric	**859**	492	367	156	109	264	210	70	44	1	1		3	1			
TCH-Private	**188**	83	105		1	2	4	2	1	3	21	58	70	18	8		
TCH-Surgical	**780**	463	317			4	3	3	7	93	33	328	255	34	19	1	
TCH-TB	**76**	38	38				1	2	1	11	13	25	21		2		
Grand Total	**5491**	**1592**	**3899**	**156**	**110**	**270**	**218**	**85**	**70**	**169**	**1577**	**797**	**1814**	**114**	**110**	**1**	**0**

Source: KHIS as of 31.12.2020

Table 9: Inpatient Morbidity Statistics for Health Centers and Clinics

Service	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Admissions	314	230	256	244	247	320	346	271	296	261	207	215	**3207**
Discharges	207	176	187	164	150	194	185	192	205	175	156	149	**2140**
Patient days	765	817	997	873	822	825	821	845	958	935	871	773	**10302**

Source: MS1 as of 31.12.2020

Table 10: Outpatient Morbidity Statistics for Health Centers and Clinics

Illness	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
(01) Diarrhoea	2505	1093	1202	1457	1284	1205	1311	1151	1202	2649	1448	1109	17616
(02) Dysentery	608	481	625	524	490	420	448	485	407	390	456	415	5749
(03) ILI - Influenza like illness	5030	4208	6568	3566	3355	2330	3474	2949	2748	1789	1621	1377	39015
(04) ARI-Pneumonia	534	469	684	390	265	286	546	630	374	381	265	184	5008
(05) Meningitis	1	2	10	389	5	19	5	8	48	30	7	2	526
(06) Conjunctivitis	1273	1126	1365	1168	1490	1621	1421	1442	1410	1533	1783	1589	17221
(07) STI	17	10	24	30	18	16	13	18	19	20	13	5	203
(08) Prolonged Fever	1301	681	1004	597	647	623	801	614	532	605	295	278	7978
(09) Acute fever + rash	24	14	24	19	34	19	38	6	13	8	15	19	233
(10) Diabetes	106	83	153	155	106	165	66	65	66	61	83	54	1163
(11) Hypertension	122	79	126	83	84	119	79	64	58	98	77	48	1037
(12) Mental illness	4	7	2	7	5	3	7	5	2	2	4	3	51
(13) Fish poisoning	44	44	64	43	55	56	73	59	25	50	60	42	615
(14) Night blindness	37	24	54	54	55	65	67	80	83	56	49	52	676
(15) Tinea Vesicolor	315	256	292	377	363	393	391	407	392	402	305	297	4190
(16) Tinea Corporis	776	647	649	683	656	740	720	629	584	669	613	591	7957
(17) Worm Infestation	36361	28548	31979	28427	31653	29926	28650	30562	29878	30431	30464	27809	364688
(18) Scabies	811	862	999	788	728	830	766	972	710	794	710	604	9574
(19) Others	292	226	201	229	262	365	235	272	249	300	266	352	3249
Total	**50161**	**38860**	**46025**	**38986**	**41555**	**39201**	**39111**	**40418**	**38800**	**40268**	**38534**	**34830**	**486749**

Source: MS1 as of 31.12.2020

Table 11: Outpatient Morbidity Statistics according to districts

Illness	District						Total
	Central	Linnix	North	South East	South West	Tarawa&Banaba	
ILI - Influenza like illness	3185	5251	4546	2747	2012	21274	**39015**
Diarrhoea	854	1296	1441	736	918	12371	**17616**
Conjunctivitis	655	1130	918	490	825	13203	**17221**
Worm Infestation	785	699	1294	348	640	5808	**9574**
Prolonged Fever	829	1423	1062	365	697	3602	**7978**
Tinea Corporis	486	477	755	387	483	5369	**7957**
Dysentery	767	729	517	263	567	2906	**5749**
ARI-Pneumonia, Severe pneumonia & severe disease	943	195	658	499	254	2459	**5008**
Tinea Vesicolor	179	204	293	176	240	3098	**4190**
Scabies	236	393	468	109	129	1914	**3249**
Diabetes	50	42	117	45	119	790	**1163**
Hypertension	95	16	149	65	88	624	**1037**
Night blindness	130	62	104	67	107	206	**676**
Fish poisoning	86	164	125	69	41	130	**615**
Meningitis	31	2	21	3	41	428	**526**
Acute fever + rash	16	25	10	17	18	147	**233**
STI	30	10	26	7	13	117	**203**
Mental illness	7	8	7	8	10	11	**51**
Others	22484	36235	30652	14117	23668	237532	**364688**
Grand Total	**31848**	**48361**	**43163**	**20518**	**30870**	**311989**	**486749**

Source: MS1 as of 31.12.2020

Table 12: Referrals to TCH from Health Centers and Clinics

Service	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Abaiang	5	27	13	19	11	11	28	12	10	67	9	3	**215**
Tarawa North	8	8	14	11	15	6	17	19	17	44	16	10	**185**
Abemama	9	21	10	7	10	18	14	25	11	20	15	10	**170**
BTC	9	17	18		17	24		6	19	15	10	7	**142**
Maiana	10	15	8	8	6	3	9	7	8	17	4	5	**100**
Beru	7	6	14	8	8	6	11	1	4	3	12	16	**96**
Nonouti	12	6	6	2	1	14	12	18	1	5	5	4	**86**
Butaritari	7	6	4	4	12	6	7	5	20	4	3	4	**82**
Kuria	9	2		6	7	9	8	10	9	7	5	7	**79**
Aranuka	2	7	7	9	8		7	12	6	9	6	3	**76**
Marakei	7	6	7	4	3	5	4	5	4	6	8	6	**65**
Nikunau	1	2	2	4	13	2	2	3	5	4	7	7	**52**
Tab North	12	7	3	1	1		2	4	6	2	5	1	**44**
Arorae	4	6		4		3	8	5	1	2	6	4	**43**
Makin	5		5	2	1	5	5	2	3	7	5	2	**42**
Onotoa	5	5	7				1	3	5	4	7	5	**42**
Tab South	3	4		5	5	7	1	3		1	2	2	**33**
Kiritimati							13				10	3	**26**
Banaba	5				4			2	1		4		**16**
Tamana	2		1		1		1	1		1		2	**9**
Tabuaeran(Fanning)												1	**1**
Grand Total	**122**	**145**	**119**	**94**	**123**	**119**	**150**	**143**	**130**	**218**	**139**	**102**	**1604**

Source: MS1 as of 31.12.2020

Table 13: Leading Causes of Hospitalization for TCH

Rank	ICD 10-3	Cause of Hospitalization	Gender		Total
			Male	Female	
1	O80	Single spontaneous delivery		1509	1509
2	O82	Single delivery by caesarean section		443	443
3	J18	Pneumonia, organism unspecified	88	73	161
4	J21	Acute bronchiolitis	79	49	128
5	R69	Unknown and unspecified causes of morbidity	48	74	122
6	E11	Non-insulin-dependent diabetes mellitus	43	52	95
7	E14	Unspecified diabetes mellitus	51	41	92
8	A41	Other septicaemia	52	38	90
9	P36	Bacterial sepsis of newborn	47	39	86
10	O24	Diabetes mellitus in pregnancy		85	85
11	O99	Other maternal diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium		76	76
12	L02	Cutaneous abscess, furuncle and carbuncle	43	33	76
13	E43	Unspecified severe protein-energy malnutrition	39	27	66
14	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	29	34	63
15	A09	Other gastroenteritis and colitis of infectious and unspecified origin	34	28	62
16	O60	Preterm labour		61	61
17	I50	Heart failure	36	21	57
18	I21	Acute myocardial infarction	43	5	48
19	O03	Spontaneous abortion		47	47
20	I10	Essential (primary) hypertension	23	23	46
21	O47	False labour		43	43
22	L03	Cellulitis	25	17	42
23	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	14	27	41
24	R99	Other ill-defined and unspecified causes of mortality	20	19	39
25	J44	Other chronic obstructive pulmonary disease	24	14	38
		Pooled from all other causes	854	1021	**1875**
	Grand Total		**1592**	**3899**	**5491**
***	**R00-R99**	**Ill-defined causes hospitalization (pooled)**	**96**	**113**	**209**

Source: KHIS as of 31.12.2020

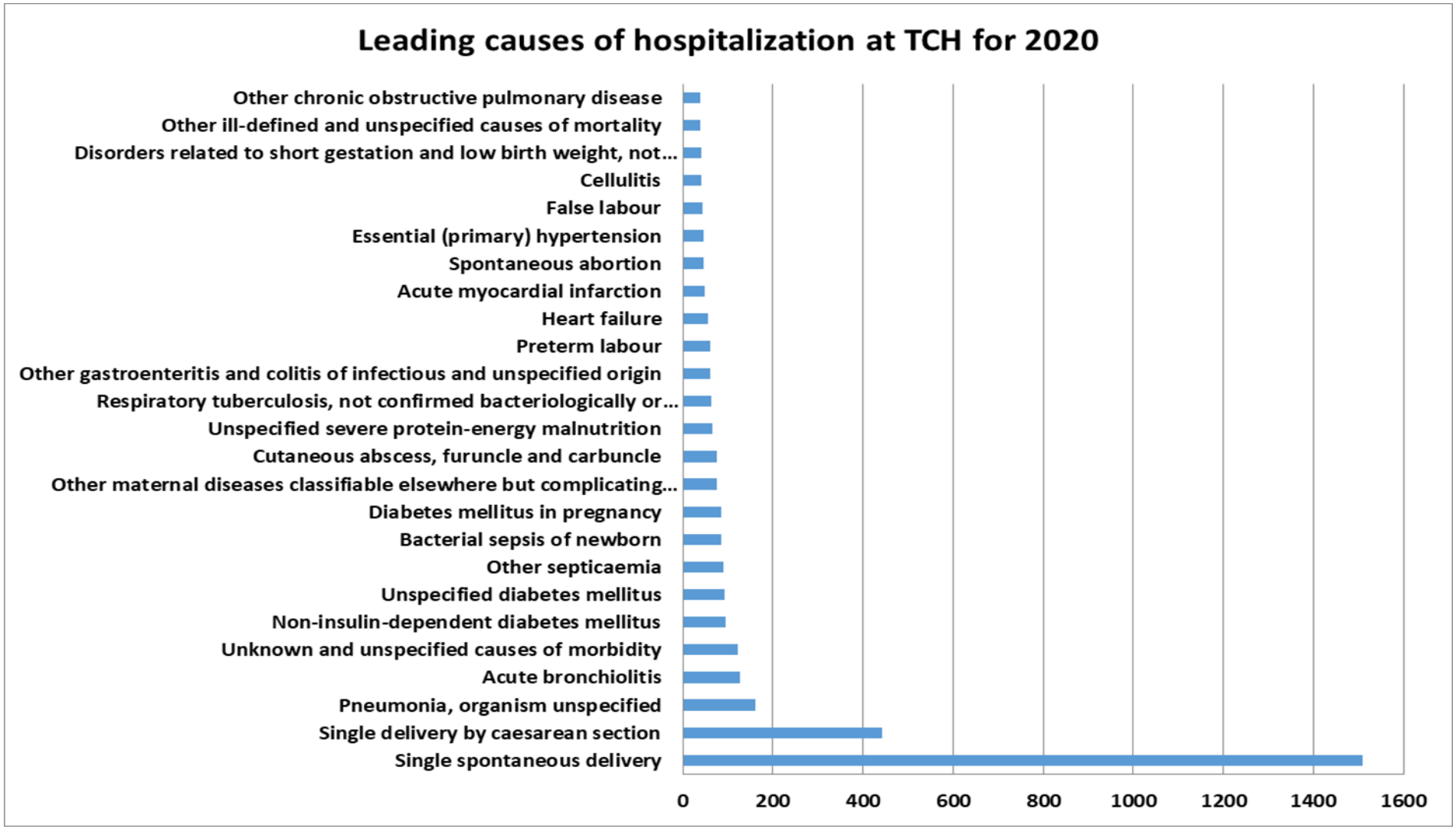


Figure 2: Leading Causes of Hospitalization for TCH

Table 14: Inpatient Mortality Statistics for TCH: according to Age, Sex and Ward category

Ward Category	Sub Total	Total		Less than 1yr		1-4yrs		5-15yrs		16-29yrs		30-69yrs		70+yrs		Age Unknown	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
TCH-ICU/GYNAE	**41**	23	18	0	0			2		3	6	15	9	2	3	1	1
TCH-Medical	**151**	82	69	0	0				3	7	2	62	50	13	14		
TCH-Paediatric	**70**	40	30	28	21	9	9	3									
TCH-Private	**16**	9	7	0	0							7	6	2	1		
TCH-Surgical	**54**	25	29	0	0					2	1	18	24	5	4		
TCH-TB	**2**	2		0	0							2					
TCH-OB																	
Grand Total	**334**	**181**	**153**	**28**	**21**	**9**	**9**	**5**	**3**	**12**	**9**	**104**	**89**	**22**	**22**	**1**	**1**

Source: KHIS as of 31.12.2020

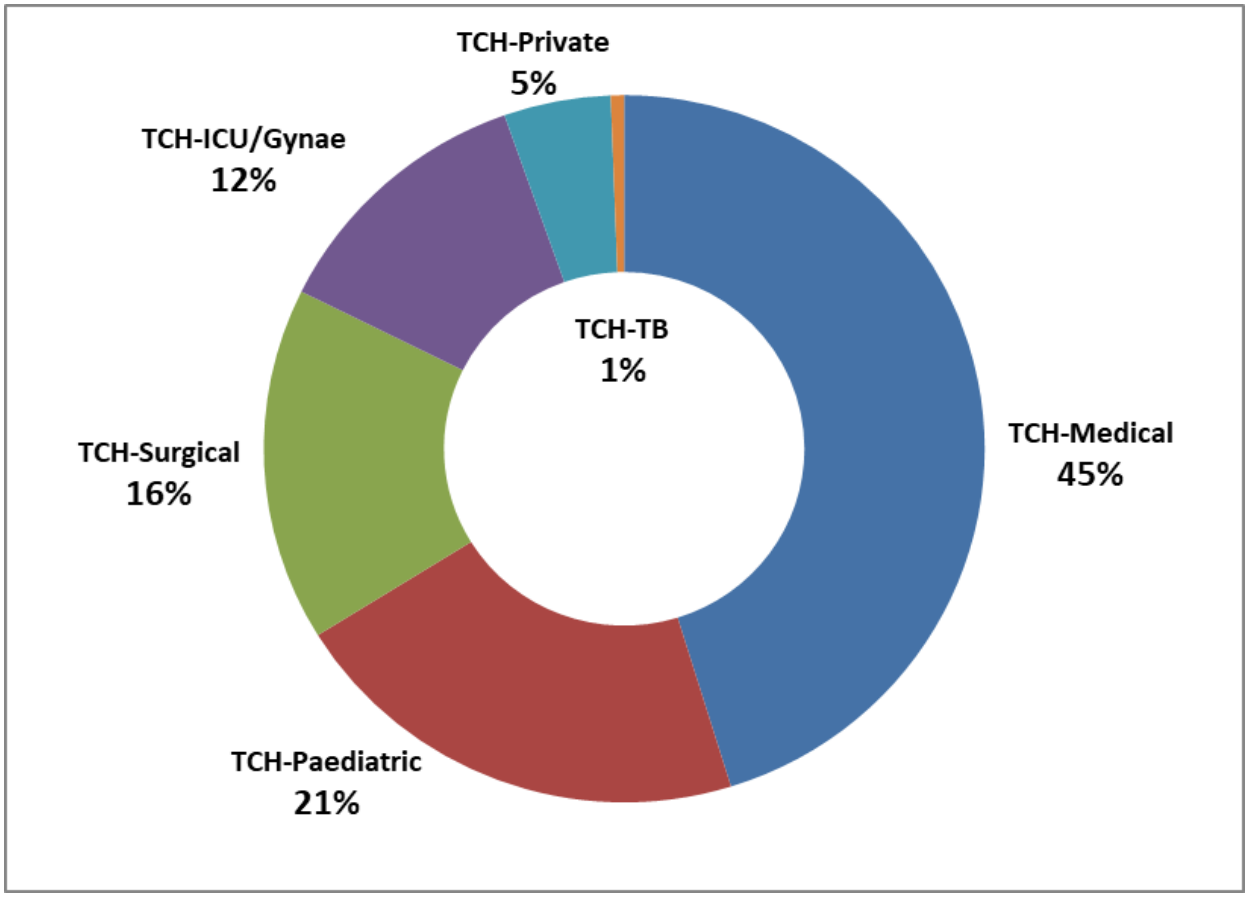


Figure 3: Inpatient mortality statistics according to wards: TCH

Table 15: Leading Causes of Hospital Inpatient Deaths* for TCH (Categorized list)

Rank	Cause of Death	Gender		
		Male	Female	Total
1	Other ill-defined and unspecified causes of mortality	17	19	**36**
2	Non-insulin-dependent diabetes mellitus	17	10	**27**
3	Other septicaemia	15	11	**26**
4	Acute hepatitis B	7	4	**11**
5	Unspecified severe protein-energy malnutrition	7	4	**11**
6	Chronic viral hepatitis	2	8	**10**
7	Pneumonia, organism unspecified	3	6	**9**
8	Malignant neoplasm of bronchus and lung	6	3	**9**
9	Other respiratory conditions originating in the perinatal period	3	4	**7**
10	Bacterial sepsis of newborn	4	3	**7**
11	Acute myocardial infarction	5	2	**7**
12	Respiratory tuberculosis, not confirmed bacteriologically or histologically	4	2	**6**
13	Malignant neoplasm of breast		6	**6**
14	Stroke, not specified as haemorrhage or infarction	4	2	**6**
15	Malignant neoplasm of liver and intrahepatic bile ducts	4	1	**5**
16	Neonatal aspiration syndromes	4	1	**5**
17	Disorders related to short gestation and low birth weight, not elsewhere classified	3	2	**5**
18	Other gastroenteritis and colitis of infectious and unspecified origin	2	3	**5**
19	Fibrosis and cirrhosis of liver	1	3	**4**
20	Chronic kidney disease	2	2	**4**
21	Fibroblastic disorders	3	1	**4**
22	Meningitis due to other and unspecified causes	2	2	**4**
23	Essential (primary) hypertension	2	2	**4**
24	Malignant neoplasm of stomach	3	1	**4**
25	Malignant neoplasm of cervix uteri		3	**3**
	Mortality from all other causes (pooled)	61	48	**109**
	Grand Total	**181**	**153**	**334**

Source: KHIS as of 31.12.2020 **** Derived from data extracted from medical records***

Table 16: Leading Causes of Hospital Inpatient Deaths* for TCH (Expanded list)

Rank	ICD 10-3	Cause of Death	Gender		Total
			Male	Female	
1	R99	Other ill-defined and unspecified causes of mortality	17	19	36
2	E11	Non-insulin-dependent diabetes mellitus	17	10	27
3	A41	Other septicaemia	15	11	26
4	B16	Acute hepatitis B	7	4	11
5	E43	Unspecified severe protein-energy malnutrition	7	4	11
6	B18	Chronic viral hepatitis	2	8	10
7	J18	Pneumonia, organism unspecified	3	6	9
8	C34	Malignant neoplasm of bronchus and lung	6	3	9
9	P28	Other respiratory conditions originating in the perinatal period	3	4	7
10	P36	Bacterial sepsis of newborn	4	3	7
11	I21	Acute myocardial infarction	5	2	7
12	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	4	2	6
13	C50	Malignant neoplasm of breast		6	6
14	I64	Stroke, not specified as haemorrhage or infarction	4	2	6
15	C22	Malignant neoplasm of liver and intrahepatic bile ducts	4	1	5
16	P24	Neonatal aspiration syndromes	4	1	5
17	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	3	2	5
18	A09	Other gastroenteritis and colitis of infectious and unspecified origin	2	3	5
19	K74	Fibrosis and cirrhosis of liver	1	3	4
20	N18	Chronic kidney disease	2	2	4
21	M72	Fibroblastic disorders	3	1	4
22	G03	Meningitis due to other and unspecified causes	2	2	4
23	I10	Essential (primary) hypertension	2	2	4
24	C16	Malignant neoplasm of stomach	3	1	4
25	C53	Malignant neoplasm of cervix uteri		3	3
26	L03	Cellulitis	2	1	3
27	I12	Hypertensive renal disease	3		3
28	A15	Respiratory tuberculosis, bacteriologically and histologically confirmed	1	2	3
29	J44	Other chronic obstructive pulmonary disease	1	2	3
30	L02	Cutaneous abscess, furuncle and carbuncle	2		2
31	I48	Atrial fibrillation and flutter	1	1	2
32	D64	Other anaemias	1	1	2
33	I61	Intracerebral haemorrhage	2		2
34	I50	Heart failure	1	1	2
35	P77	Necrotizing enterocolitis of fetus and newborn	1	1	2
36	C95	Leukaemia of unspecified cell type	1	1	2
37	P21	Birth asphyxia	1	1	2
38	N17	Acute renal failure	1	1	2
39	P22	Respiratory distress of newborn	1	1	2
40	N39	Other disorders of urinary system		2	2
41	P61	Other perinatal haematological disorders	1	1	2
42	K92	Other diseases of digestive system	1	1	2
43	C32	Malignant neoplasm of larynx	2		2
44	J47	Bronchiectasis	1	1	2
45	E86	Volume depletion		2	2
46	C97	Malignant neoplasms of independent (primary) multiple sites	1	1	2
47	R57	Shock, not elsewhere classified	1	1	2
48	G95	Other diseases of spinal cord	1		1

Table 16: (Continued) Leading Causes of Hospital Inpatient Deaths* for TCH (Expanded list)

Rank	ICD 10-3	Cause of Death	Gender		Total
			Male	Female	
49	A43	Nocardiosis		1	1
50	O00	Ectopic pregnancy		1	1
51	C79	Secondary malignant neoplasm of other sites		1	1
52	R06	Abnormalities of breathing	1		1
53	D69	Purpura and other haemorrhagic conditions		1	1
54	I09	Other rheumatic heart diseases		1	1
55	A18	Tuberculosis of other organs	1		1
56	D14	Benign neoplasm of middle ear and respiratory system	1		1
57	I63	Cerebral infarction	1		1
58	P83	Other conditions of integument specific to fetus and newborn		1	1
59	C15	Malignant neoplasm of oesophagus	1		1
60	M10	Gout	1		1
61	W15	Fall from cliff	1		1
62	H05	Disorders of orbit	1		1
63	E14	Unspecified diabetes mellitus		1	1
64	N49	Inflammatory disorders of male genital organs, not elsewhere classified	1		1
65	J32	Chronic sinusitis	1		1
66	O99	Other maternal diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium		1	1
67	C92	Myeloid leukaemia		1	1
68	P23	Congenital pneumonia	1		1
69	J45	Asthma	1		1
70	B19	Unspecified viral hepatitis		1	1
71	B01	Varicella [chickenpox]	1		1
72	Q32	Congenital malformations of trachea and bronchus	1		1
73	J84	Other interstitial pulmonary diseases	1		1
74	L89	Decubitus ulcer and pressure area	1		1
75	R09	Other symptoms and signs involving the circulatory and respiratory systems	1		1
76	M19	Other arthrosis	1		1
77	A49	Bacterial infection of unspecified site	1		1
78	N04	Nephrotic syndrome		1	1
79	C38	Malignant neoplasm of heart, mediastinum and pleura		1	1
80	I05	Rheumatic mitral valve diseases	1		1
81	K27	Peptic ulcer, site unspecified	1		1
82	N40	Hyperplasia of prostate	1		1
83	K44	Diaphragmatic hernia		1	1
84	N83	Noninflammatory disorders of ovary, fallopian tube and broad ligament		1	1
85	K55	Vascular disorders of intestine	1		1
86	O03	Spontaneous abortion		1	1
87	K56	Paralytic ileus and intestinal obstruction without hernia	1		1
88	C18	Malignant neoplasm of colon		1	1
89	K65	Peritonitis		1	1
90	I11	Hypertensive heart disease	1		1
91	E87	Other disorders of fluid, electrolyte and acid-base balance		1	1
92	C21	Malignant neoplasm of anus and anal canal		1	1
93	K75	Other inflammatory liver diseases	1		1
94	D63	Anaemia in chronic diseases classified elsewhere	1		1
95	K76	Other diseases of liver		1	1
96	I25	Chronic ischaemic heart disease	1		1

Table 16: (Continued) Leading Causes of Hospital Inpatient Deaths* for TCH (Expanded list)

Rank	ICD 10-3	Cause of Death	Gender		Total
			Male	Female	
97	K91	Postprocedural disorders of digestive system, not elsewhere classified		1	1
98	Q05	Spina bifida	1		1
99	C76	Malignant neoplasm of other and ill-defined sites	1		1
100	R04	Haemorrhage from respiratory passages		1	1
101	G37	Other demyelinating diseases of central nervous system	1		1
102	I33	Acute and subacute endocarditis	1		1
103	G82	Paraplegia and tetraplegia		1	1
104	J90	Pleural effusion, not elsewhere classified		1	1
105	V89	Motor-or nonmotor-vehicle accident, type of vehicle unspecified		1	1
106	J96	Respiratory failure, not elsewhere classified		1	1
107	K25	Gastric ulcer	1		1
108	I95	Hypotension	1		1
		Grand Total	**181**	**153**	**334**

Source: KHIS as of 31.12.2020 **** Derived from data extracted from medical records***

7. Country mortality statistics

Neonatal Mortality Rate: Probability of dying between birth and age 28 days (per 1,000 live births): **16.0**

NMR =	Number of deaths of neonates aged 0-28 days (50) / Number of live births (3,133)	X 1,000

Methodological/System Issues:

- Data for 2020 has been sourced from the KHIS & MS1
- Births with unrecorded outcomes were counted as live births.
- Certification of cause(s) of death is poor resulting in weak mortality data
- It is likely that the number of neonatal deaths is under-reported.
- Mortality data is derived from the final diagnoses documented in the MRs since death certificates are not issued to majority of deaths. Hence the actual underlying cause(s) of death could be deferent from the current cause(s) of death data.

Table 17: Neonatal deaths according to districts*

District	No.
Northern	2
Central	0
South West	4
South East	0
Linnix	3
Tarawa	42
Total	**50**

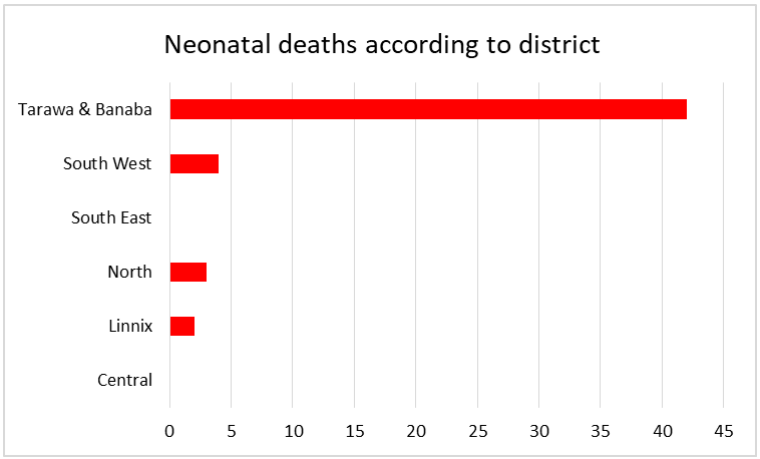


Figure 4: Neonatal deaths according to districts

Sources: KHIS & MS1 as of 31.12.2020

Infant Mortality Rate: Probability of dying between birth and age 1 year (per 1,000 live births): **28.1**

IMR =	Number of deaths of infants aged <1 year (88) / Number of live births (3,133)	X 1,000

Methodological/System Issues:

- Data for 2020 has been sourced from the KHIS & MS1
- Births with unrecorded outcomes were counted as live births.
- Certification of cause(s) of death is poor in the country.
- It is likely that the number of infant deaths is under-reported.
- Mortality data is derived from the final diagnoses documented in the MRs since death certificates are not issued to majority of deaths. Hence the actual underlying cause(s) of death could be deferent from the current cause(s) of death data.

Table 18: Infant deaths according to districts

District	No.
Northern	12
Central	3
South Western	6
South Eastern	1
Linnix	4
Tarawa	62
Total	**88**

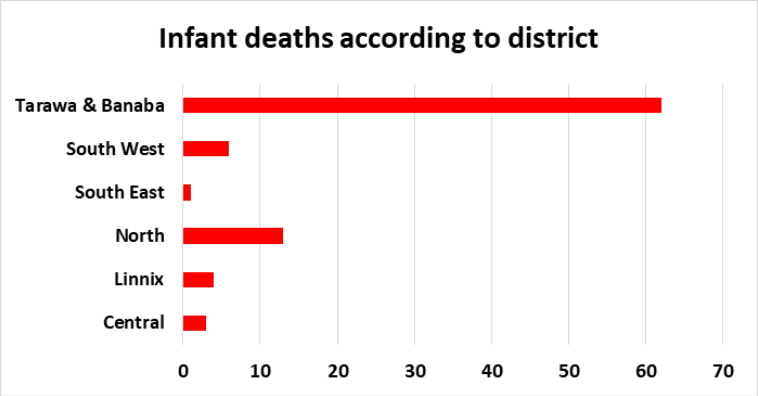


Figure 5: Infant deaths according to districts

Sources: KHIS & MS1 as of 31.12.2020

Under-five Mortality Rate: Probability of dying by age 5 years (per 1,000 live births): **42.5**

$$U5MR = \frac{\text{Number of deaths of children aged <5 years (133)}}{\text{Number of live births (3,133)}} \times 1{,}000$$

Methodological/System Issues:

- Data for 2020 has been sourced from the KHIS & MS1
- Births with unrecorded outcomes were counted as live births.
- Certification of cause(s) of death is poor resulting in weak mortality data
- It is likely that the number of under 5 year deaths is under-reported.
- Mortality data is derived from the final diagnoses, since death certificates are not issued to majority of deaths. Hence the actual underlying cause(s) of death could be deferent from the current cause(s) of death data.

Table 19: Under 5 year child deaths according to districts*

District	No.
Northern	17
Central	4
South Western	11
South Eastern	3
Linnix	9
Tarawa	89
Total	**133**

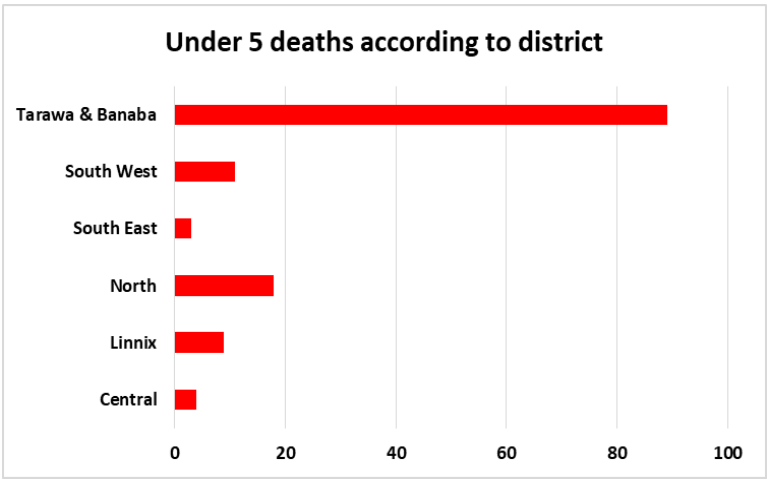


Figure 6: Under 5-year deaths according to districts

Sources: KHIS & MS1 as of 31.12.2020

Maternal Mortality Rate: Probability of a female dying due to a maternal cause (per 100,000 live births): **95.8**

MMR =	Number of maternal deaths (3) / Number of live births (3,133)	X 100,000

Methodological/System Issues:

- Data for 2020 has been sourced from the KHIS & MS1
- Births with unrecorded outcomes were counted as live births.
- Challenges in conducting Maternal Death audits thus resulting in low maternal mortality records
- Mortality data is derived from the final diagnoses, since death certificates are not issued to majority of deaths.

  Hence the actual underlying cause(s) of death could be deferent from the current cause(s) of death data.

Table 20: Maternal deaths for Kiribati

Rank	ICD-10-3	Cause of Death	Total
1	O03	Spontaneous abortion	1
2	O99	Other maternal diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium	1
3	O00	Ectopic pregnancy	1
		Total Maternal Deaths*	**3**

Sources: KHIS & MS1 as of 31.12.2019

Table 21: Maternal deaths according to districts*

District	No.
Central	0
Linnix	0
Northern	0
South Eastern	0
South Western	0
Tarawa & Banaba	3
Total	**3**

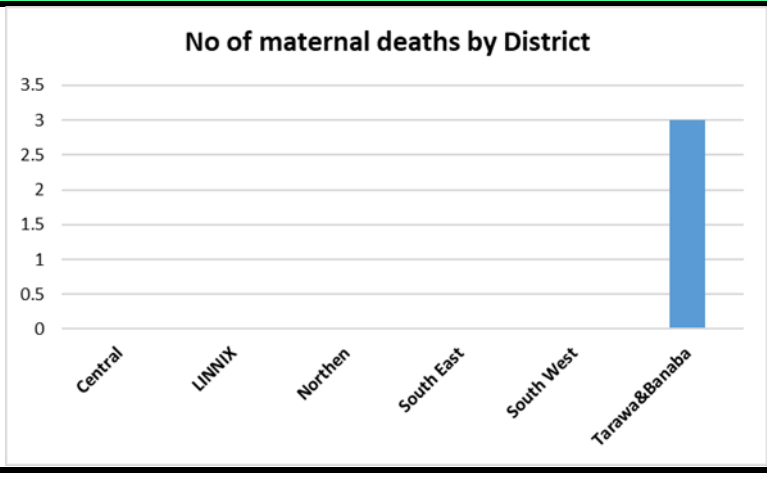


Figure 7: Maternal deaths according to districts

Sources: KHIS & MS1 as of 31.12.2020

Adult Mortality Rate from NCDs: Probability of dying between age 30-69 years from NCDs in a given year (per 10,000 population age 30-69 years): **52.3**

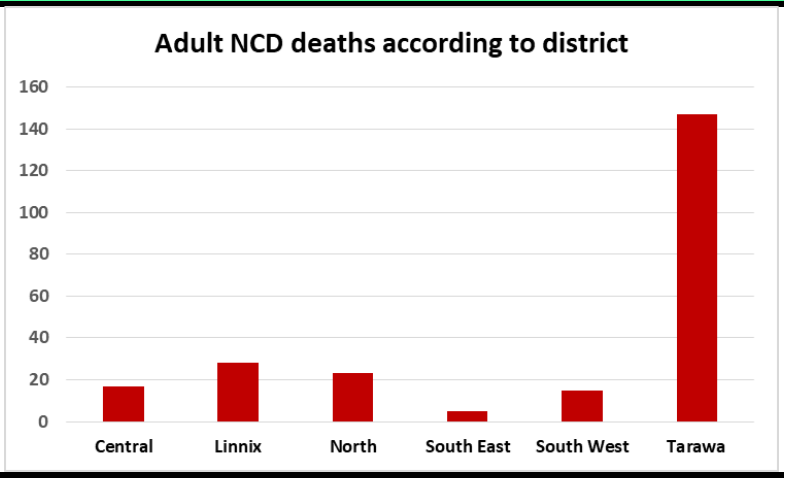
Adult mortality rate from NCDs (30-69 years) =	Total number of deaths due to NCDs for the year (235) / Total population (30-69 years) (44,920)	X 10,000

Methodological/System Issues:

- Data for 2020 has been sourced from the KHIS & MS1
- Certification of cause(s) of death is poor resulting in weak mortality data
- Mortality data is derived from the final diagnoses, since death certificates are not issued to majority of deaths. Hence the actual underlying cause(s) of death could be deferent from the current cause(s) of death data.

Table 22: Adult deaths due to NCDs according to districts*

District	No.
Central	17
Linnix	28
Northern	23
South Eastern	5
South Western	15
Tarawa & Banaba	147
Total	**235**



Sources: KHIS & MS1 as of 31.12.2020

Figure 8: Adult deaths due to NCDs according to districts

Mortality rate from road traffic injuries: Probability of dying from road traffic injuries in a given year (per 100,000 population) **2.4**

Mortality rate from Road Traffic Injuries =	Total number of deaths due to RTIs for the year (3) / Total population (125,084)	X 100,000

Methodological/System Issues:

- Data for 2020 has been sourced from the KHIS & MS1
- Certification of cause(s) of death is poor resulting in weak mortality data
- Mortality data is derived from the final diagnoses, since death certificates are not issued to majority of deaths. Hence the actual underlying cause(s) of death could be deferent from the current cause(s) of death data.

Table 23: Leading Causes of Death for Kiribati (Categorized list)*

Rank	Cause of Death*	Gender		Total
		Female	Male	
1	Other ill-defined and unspecified causes of mortality	31	34	65
2	Non-insulin-dependent diabetes mellitus	22	29	51
3	Other septicaemia	21	23	44
4	Cardiac arrest	12	27	39
5	Stroke, not specified as haemorrhage or infarction	10	24	34
6	Acute myocardial infarction	11	21	32
7	Pneumonia, organism unspecified	10	16	26
8	Unspecified severe protein-energy malnutrition	10	15	25
9	Other gastroenteritis and colitis of infectious and unspecified origin	9	6	15
10	Acute hepatitis B	6	8	14
11	Volume depletion	8	5	13
12	Malignant neoplasm of breast	12		12
13	Bacterial sepsis of newborn	5	6	11
14	Malignant neoplasm of cervix uteri	11		11
15	Chronic viral hepatitis	8	3	11
16	Malignant neoplasm of bronchus and lung	3	7	10
17	Essential (primary) hypertension	6	4	10
18	Abnormalities of breathing	3	6	9
19	Fibrosis and cirrhosis of liver	6	3	9
20	Complications and ill-defined descriptions of heart disease	4	5	9
21	Respiratory tuberculosis, not confirmed bacteriologically or histologically	2	6	8
22	Disorders related to short gestation and low birth weight, not elsewhere classified	3	5	8
23	Other chronic obstructive pulmonary disease	3	5	8
24	Other respiratory conditions originating in the perinatal period	4	3	7
25	Shock, not elsewhere classified	2	5	7
26	Meningitis due to other and unspecified causes	4	3	7
27	Intracerebral haemorrhage		6	6
28	Other anaemias	4	2	6
29	Other diseases of liver	2	4	6
30	Other diseases of digestive system	2	4	6
31	Symptoms and signs concerning food and fluid intake	4	1	5
32	Malignant neoplasm of liver and intrahepatic bile ducts	1	4	5
33	Cellulitis	3	2	5
34	Asthma	1	4	5
35	Heart failure	1	4	5
	Mortality from all other causes (pooled)	81	118	199
	Grand Total	**325**	**417**	**742**

Sources: KHIS & MS1 as of 31.12.2020

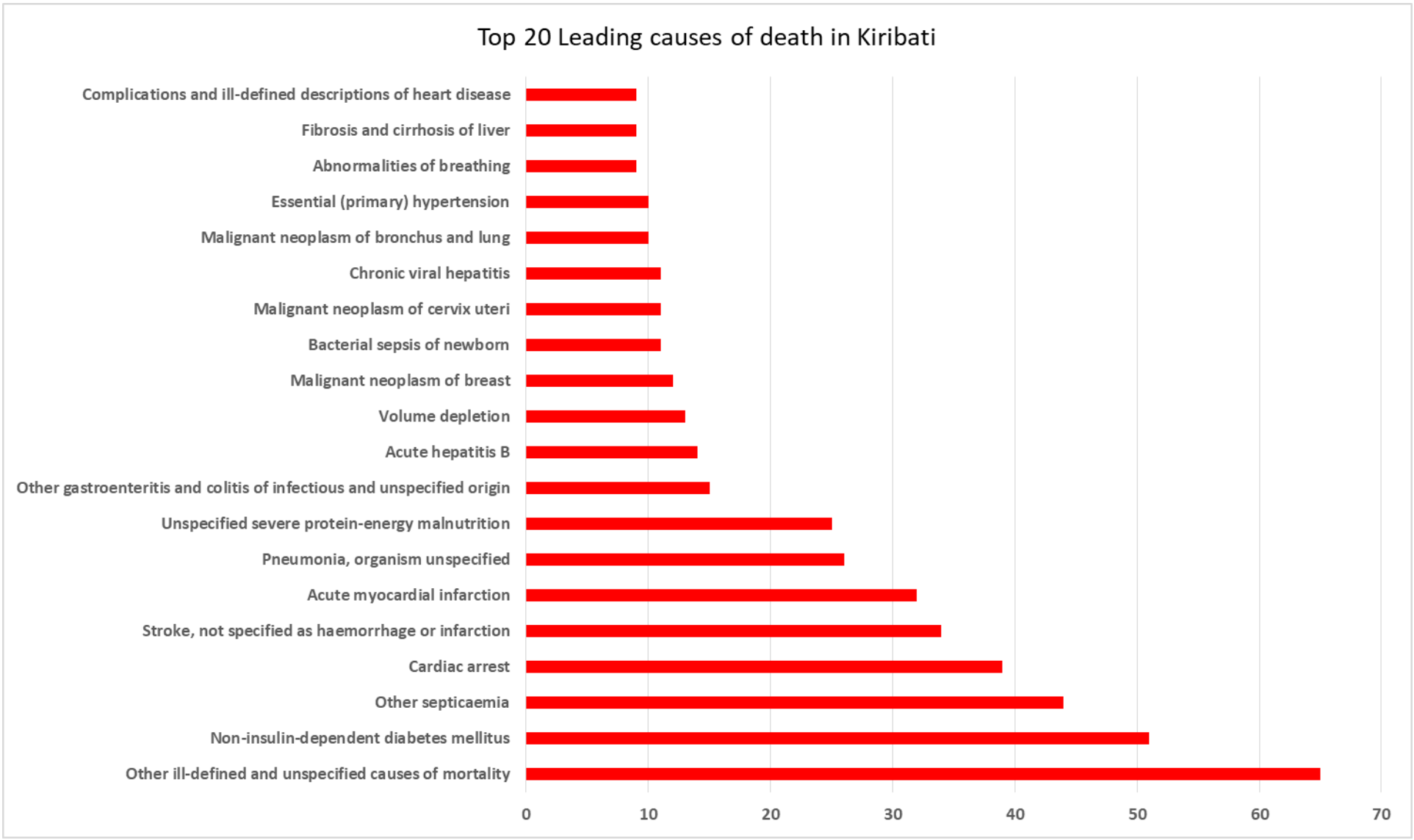


Figure 9: Leading Causes of Death for Kiribati

Table 24: Leading Causes of Death for Kiribati (Expanded list)*

Rank	ICD-10-3	Cause of Death	Gender		Total
			Female	Male	
1	R99	Other ill-defined and unspecified causes of mortality	31	34	65
2	E11	Non-insulin-dependent diabetes mellitus	22	29	51
3	A41	Other septicaemia	21	23	44
4	I46	Cardiac arrest	12	27	39
5	I64	Stroke, not specified as haemorrhage or infarction	10	24	34
6	I21	Acute myocardial infarction	11	21	32
7	J18	Pneumonia, organism unspecified	10	16	26
8	E43	Unspecified severe protein-energy malnutrition	10	15	25
9	A09	Other gastroenteritis and colitis of infectious and unspecified	9	6	15
10	B16	Acute hepatitis B	6	8	14
11	E86	Volume depletion	8	5	13
12	C50	Malignant neoplasm of breast	12		12
13	P36	Bacterial sepsis of newborn	5	6	11
14	C53	Malignant neoplasm of cervix uteri	11		11
15	B18	Chronic viral hepatitis	8	3	11
16	C34	Malignant neoplasm of bronchus and lung	3	7	10
17	I10	Essential (primary) hypertension	6	4	10
18	R06	Abnormalities of breathing	3	6	9
19	K74	Fibrosis and cirrhosis of liver	6	3	9
20	I51	Complications and ill-defined descriptions of heart disease	4	5	9
21	A16	Respiratory tuberculosis, not confirmed bacteriologically or histologically	2	6	8
22	P07	Disorders related to short gestation and low birth weight, not elsewhere classified	3	5	8
23	J44	Other chronic obstructive pulmonary disease	3	5	8
24	P28	Other respiratory conditions originating in the perinatal period	4	3	7
25	R57	Shock, not elsewhere classified	2	5	7
26	G03	Meningitis due to other and unspecified causes	4	3	7
27	i61	Intracerebral haemorrhage		6	6
28	D64	Other anaemias	4	2	6
29	K76	Other diseases of liver	2	4	6
30	K92	Other diseases of digestive system	2	4	6
31	R63	Symptoms and signs concerning food and fluid intake	4	1	5
32	C22	Malignant neoplasm of liver and intrahepatic bile ducts	1	4	5
33	L03	Cellulitis	3	2	5
34	J45	Asthma	1	4	5
35	I50	Heart failure	1	4	5
36	P24	Neonatal aspiration syndromes	1	4	5
37	X70	Intentional self-harm by hanging, strangulation and suffocation		5	5
38	C16	Malignant neoplasm of stomach	1	4	5
39	C95	Leukaemia of unspecified cell type	3	2	5
40	K27	Peptic ulcer, site unspecified	2	3	5
41	R54	Senility	3	1	5
42	A15	Respiratory tuberculosis, bacteriologically and histologically confirmed	3	1	5

Table 24: (Continued) Leading Causes of Death for Kiribati (Expanded list)*

Rank	ICD-10-3	Cause of Death	Gender		Total
			Female	Male	
43	R62	Lack of expected normal physiological development	3	1	5
44	M72	Fibroblastic disorders	1	3	4
45	R10	Abdominal and pelvic pain		4	4
46	N18	Chronic kidney disease	2	2	4
47	N17	Acute renal failure	2	1	4
48	K75	Other inflammatory liver diseases	1	2	4
49	R18	Ascites	2	1	4
50	P22	Respiratory distress of newborn	2	1	3
51	G40	Epilepsy	3		3
52	R07	Pain in throat and chest		3	3
53	V89	Motor-or nonmotor-vehicle accident, type of vehicle unspecified	1	2	3
54	I12	Hypertensive renal disease		3	3
55	C18	Malignant neoplasm of colon	2	1	3
56	P61	Other perinatal haematological disorders	1	1	3
57	R95	Sudden infant death syndrome	1	1	3
58	R50	Fever of other and unknown origin	1	1	3
59	C32	Malignant neoplasm of larynx		2	2
60	N83	Noninflammatory disorders of ovary, fallopian tube and broad ligament	2		2
61	I48	Atrial fibrillation and flutter	1	1	2
63	B01	Varicella [chickenpox]		2	2
64	C15	Malignant neoplasm of oesophagus		2	2
65	C76	Malignant neoplasm of other and ill-defined sites		2	2
66	N39	Other disorders of urinary system	2		2
67	J47	Bronchiectasis	1	1	2
68	P21	Birth asphyxia	1	1	2
69	J98	Other respiratory disorders	1	1	2
70	P77	Necrotizing enterocolitis of fetus and newborn	1	1	2
71	A08	Viral and other specified intestinal infections	1	1	2
72	E16	Other disorders of pancreatic internal secretion		2	2
73	C97	Malignant neoplasms of independent (primary) multiple sites	1	1	2
74	I20	Angina pectoris		2	2
75	L02	Cutaneous abscess, furuncle and carbuncle		2	2
76	I25	Chronic ischaemic heart disease	1	1	2
77	X84	Intentional self-harm by unspecified means		2	2
78	W74	Unspecified drowning and submersion	1	1	2
79	I26	Pulmonary embolism	2		2
80	K55	Vascular disorders of intestine		1	2
81	Q43	Other congenital malformations of intestine		1	2
82	E14	Unspecified diabetes mellitus	1		2

Table 24: (Continued) Leading Causes of Death for Kiribati (Expanded list)*

Rank	ICD-10-3	Cause of Death	Gender		Total
			Female	Male	
83	K60	Fissure and fistula of anal and rectal regions	1		1
84	I09	Other rheumatic heart diseases	1		1
85	K56	Paralytic ileus and intestinal obstruction without hernia		1	1
86	R40	Somnolence, stupor and coma	1		1
87	K65	Peritonitis	1		1
88	P83	Other conditions of integument specific to fetus and newborn	1		1
89	K72	Hepatic failure, not elsewhere classified	1		1
90	R09	Other symptoms and signs involving the circulatory and respiratory systems		1	1
91	A30	Leprosy [Hansen's disease]		1	1
92	Y21	Drowning and submersion, undetermined intent		1	1
93	G83	Other paralytic syndromes		1	1
94	P08	Disorders related to long gestation and high birth weight	1		1
95	A18	Tuberculosis of other organs		1	1
96	D69	Purpura and other haemorrhagic conditions	1		1
97	K91	Postprocedural disorders of digestive system, not elsewhere classified	1		1
98	J84	Other interstitial pulmonary diseases		1	1
99	D14	Benign neoplasm of middle ear and respiratory system		1	1
100	Q05	Spina bifida		1	1
101	I95	Hypotension		1	1
102	I36	Nonrheumatic tricuspid valve disorders		1	1
103	D63	Anaemia in chronic diseases classified elsewhere		1	1
104	R11	Nausea and vomiting		1	1
105	L08	Other local infections of skin and subcutaneous tissue	1		1
106	Y20	Hanging, strangulation and suffocation, undetermined intent		1	1
107	L89	Decubitus ulcer and pressure area		1	1
108	I63	Cerebral infarction		1	1
109	X59	Exposure to unspecified factor		1	1
110	B19	Unspecified viral hepatitis	1		1
111	A49	Bacterial infection of unspecified site		1	1
112	C38	Malignant neoplasm of heart, mediastinum and pleura	1		1
113	Y19	Poisoning by and exposure to other and unspecified chemicals and noxious substances, undetermined intent		1	1
114	P23	Congenital pneumonia		1	1
115	G95	Other diseases of spinal cord		1	1
116	C02	Malignant neoplasm of other and unspecified parts of tongue		1	1
117	N04	Nephrotic syndrome	1		1
118	P39	Other infections specific to the perinatal period	1		1
119	E87	Other disorders of fluid, electrolyte and acid-base balance	1		1
120	J90	Pleural effusion, not elsewhere classified	1		1
121	W15	Fall from cliff		1	1
122	J96	Respiratory failure, not elsewhere classified	1		1
123	J32	Chronic sinusitis		1	1

Table 24: (Continued) Leading Causes of Death for Kiribati (Expanded list)*

Rank	ICD-10-3	Cause of Death	Gender		Total
			Female	Male	
124	R04	Haemorrhage from respiratory passages	1		1
125	C79	Secondary malignant neoplasm of other sites	1		1
126	Q32	Congenital malformations of trachea and bronchus			
127	N40	Hyperplasia of prostate		1	1
128	C21	Malignant neoplasm of anus and anal canal	1		1
129	N49	Inflammatory disorders of male genital organs, not elsewhere classified		1	1
130	I11	Hypertensive heart disease		1	1
131	C92	Myeloid leukaemia	1		1
132	G82	Paraplegia and tetraplegia	1		1
133	N93	Other abnormal uterine and vaginal bleeding	1		1
134	K25	Gastric ulcer		1	1
135	O03	Spontaneous abortion	1		1
136	R56	Convulsions, not elsewhere classified		1	1
137	O99	Other maternal diseases classifiable elsewhere but complicating pregnancy, childbirth and the puerperium	1		1
138	A43	Nocardiosis	1		1
139	P02	Fetus and newborn affected by complications of placenta, cord and membranes		1	1
140	K44	Diaphragmatic hernia	1		1
141	P03	Fetus and newborn affected by other complications of labour and delivery	1		1
142	P05	Slow fetal growth and fetal malnutrition		1	1
143	H05	Disorders of orbit		1	1
144	W69	Drowning and submersion while in natural water	1		1
145	I05	Rheumatic mitral valve diseases		1	1
146	I33	Acute and subacute endocarditis		1	1
147	N19	Unspecified kidney failure	1		1
148	M10	Gout		1	1
149	Y04	Assault by bodily force		1	1
150	M19	Other arthrosis		1	1
151	G37	Other demyelinating diseases of central nervous system		1	1
152	M25	Other joint disorders, not elsewhere classified		1	1
153	Z02	Examination and encounter for administrative purposes		1	1
154	K29	Gastritis and duodenitis		1	1
155	K37	Unspecified appendicitis		1	1
		Grand Total	**325**	**417**	**742**

Sources: KHIS & MS1as of 31.12.2020

Table 25: Deaths due to cancer for Kiribati*

Rank	ICD-10-3	Type of Cancer	Gender		Total
			Female	Male	
1	C50	Malignant neoplasm of breast	12		12
2	C53	Malignant neoplasm of cervix uteri	11		11
3	C34	Malignant neoplasm of bronchus and lung	3	7	10
4	C95	Leukaemia of unspecified cell type	3	2	5
4	C16	Malignant neoplasm of stomach	1	4	5
4	C22	Malignant neoplasm of liver and intrahepatic bile ducts	1	4	5
4	C18	Malignant neoplasm of colon	2	1	3
4	C32	Malignant neoplasm of larynx		2	2
5	C97	Malignant neoplasms of independent (primary) multiple sites	1	1	2
5	C76	Malignant neoplasm of other and ill-defined sites		2	2
5	C15	Malignant neoplasm of oesophagus		2	2
5	C21	Malignant neoplasm of anus and anal canal	1		1
5	C38	Malignant neoplasm of heart, mediastinum and pleura	1		1
5	C02	Malignant neoplasm of other and unspecified parts of tongue		1	1
5	C79	Secondary malignant neoplasm of other sites	1		1
5	C92	Myeloid leukaemia	1		1
		Total cancer deaths occurred at a health facility*	**38**	**26**	**64**

Sources: KHIS & MS1 as of 31.12.2020

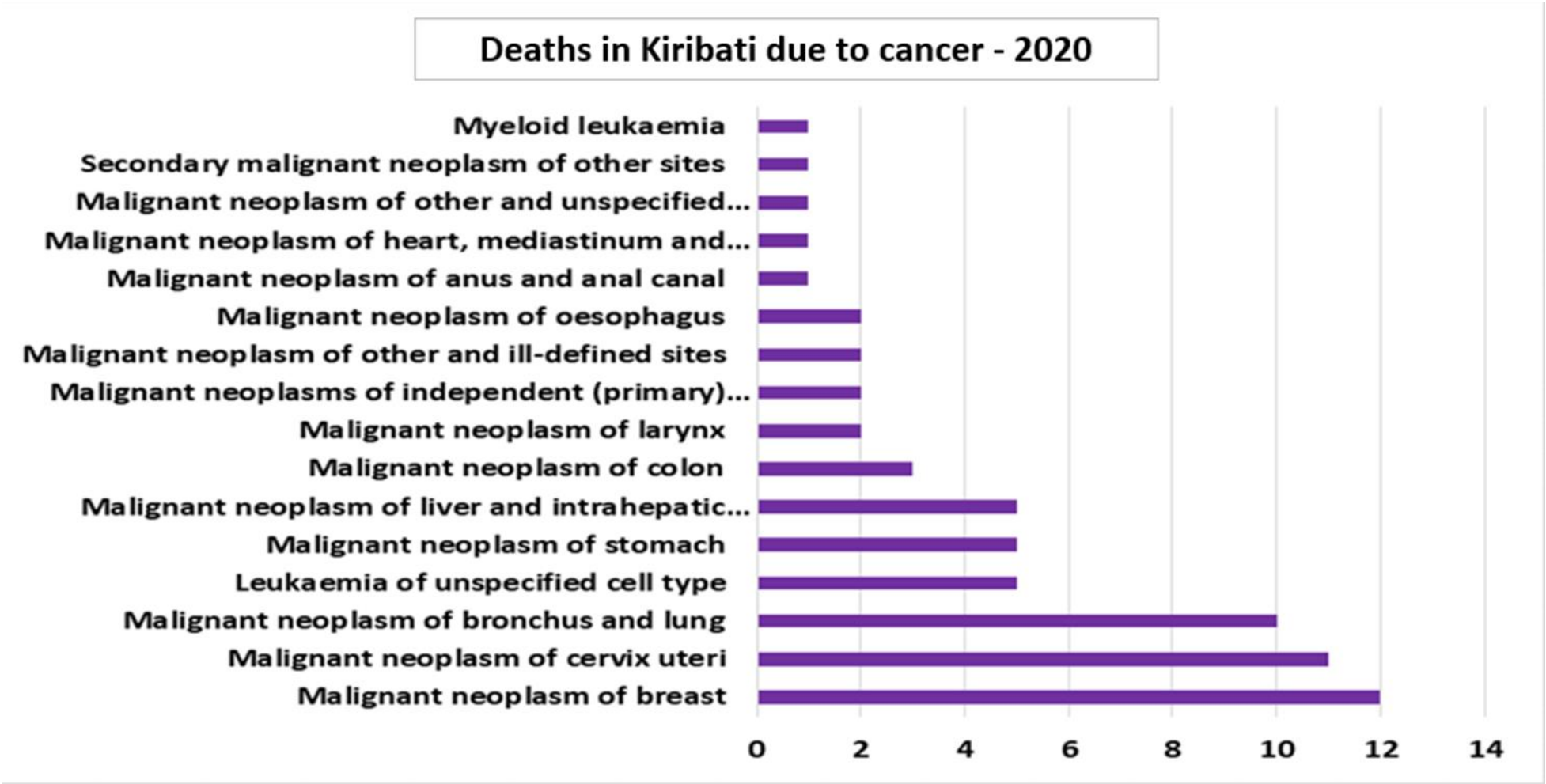


Figure 10: Mortality from cancers for the year 2020

Table 26: Ill-defined causes of death for Kiribati*

Rank	ICD-10-3	Ill-defined cause of death	Gender		Total
			Female	Male	
1	R99	Other ill-defined and unspecified causes of mortality	30	34	64
2	R06	Abnormalities of breathing	3	6	9
3	R57	Shock, not elsewhere classified	2	5	7
3	R63	Symptoms and signs concerning food and fluid intake	4	1	5
5	R62	Lack of expected normal physiological development	3	1	4
5	R54	Senility	3	1	4
5	R10	Abdominal and pelvic pain		4	4
6	R07	Pain in throat and chest		3	3
6	R18	Ascites	2	1	3
7	R50	Fever of other and unknown origin	1	1	2
7	R95	Sudden infant death syndrome	1	1	2
8	R11	Nausea and vomiting		1	1
8	R56	Convulsions, not elsewhere classified		1	1
8	R09	Other symptoms and signs involving the circulatory and respiratory systems		1	1
8	R04	Haemorrhage from respiratory passages	1		1
8	R40	Somnolence, stupor and coma	1		1
		Total ill-defined deaths occurred at a health facility	**51**	**61**	**112**

Sources: KHIS & MS1 as of 31.12.2020

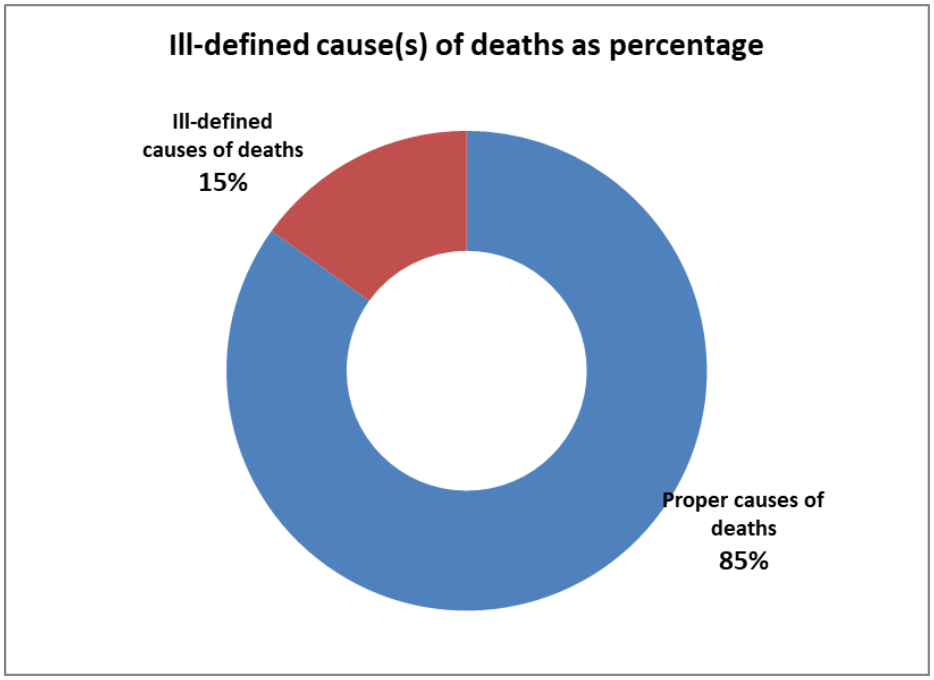


Figure 12: Ill-defined cause(s) of deaths as a percentage of total deaths for year 2020

8. Maternal & Child Health and Family Planning Services

Access to antenatal care: The average number of antenatal clinic visits attended per mother in one year: **5.3**

Access to antenatal care =	$\frac{\text{Total number of antenatal visits (first \& revisits) (16,950)}}{\text{Total number of deliveries reported (3,203)}}$

Methodological/System Issues:

- Data for 2020 has been sourced from the MS1
- Strengthened and timely reporting would contribute to more accurate figures.

Table 27: Visits to Island Health Centers and Clinics

First Visits	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Antenatal	340	281	286	277	253	372	310	289	282	323	255	320	**3588**
Postnatal	249	306	313	221	255	268	305	197	351	423	383	450	**3721**
Child Health: <1yr	447	469	457	322	329	316	426	358	468	490	472	529	**5083**
Child Health: 1-4yrs	596	321	318	244	179	259	313	304	207	213	260	286	**3500**
MCH Aides	719	181	213	420	451	143	353	136	206	401	107	152	**3482**
Pap Smears	57	66	103	50	92	49	83	70	78	186	173	96	**1103**
Re-visits													
Antenatal 2nd	260	363	326	281	361	441	388	409	393	334	290	267	**4113**
Antenatal 3rd	183	142	271	265	260	254	301	264	298	292	196	240	**2966**
Antenatal 4th	180	138	131	194	227	171	178	266	172	239	161	249	**2306**
Antenatal 4<	242	387	542	226	248	314	243	259	296	369	433	418	**3977**
Postnatal	10	77	64	35	9	19	10	9	17	50	70	227	**597**
Child Health: < 1yr	1057	1110	1244	1035	1047	1086	1226	1242	1237	1152	1231	1032	**13699**
Child Health: 1-4yrs	2049	2640	2498	2073	2493	2687	3046	2751	2621	2575	2229	2054	**29716**
MCH Aides	193	100	131	199	119	49	95	134	232	181	125	122	**1680**
Pap Smears	13	43	27	42	14	13	29	35	44	53	34	46	**393**

Source: MS1 as of 31.12.2020

Percentage of pregnant mothers received at least one home visit by PHN: The average number of home visits by PHN per mother in one year: **9.3**

% of pregnant mothers received at least one home visit by PHN =	Number of home visits (298) / Total number of deliveries reported (3,203)	X 100

Methodological/System Issues:

- Data for 2020 has been sourced from the MS1
- Strengthened and timely reporting would contribute to more accurate figures.

Table 28: PHN Home Visits

Service offered	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Sick patients treated	245	306	279	258	295	317	326	286	318	347	396	371	**3744**
Family planning	21	17	19	15	13	19	21	28	15	18	16	9	**211**
Antenatal	21	15	11	16	10	28	18	29	35	41	39	35	**298**
Postnatal	29	26	18	10	21	42	17	21	35	16	38	17	**290**
Child Health: <1yr	172	183	194	180	157	260	179	312	361	415	252	216	**2881**
Child Health: 1-4yrs	313	441	299	362	342	697	579	966	708	751	557	605	**6620**

Source: MS1 as of 31.12.2020

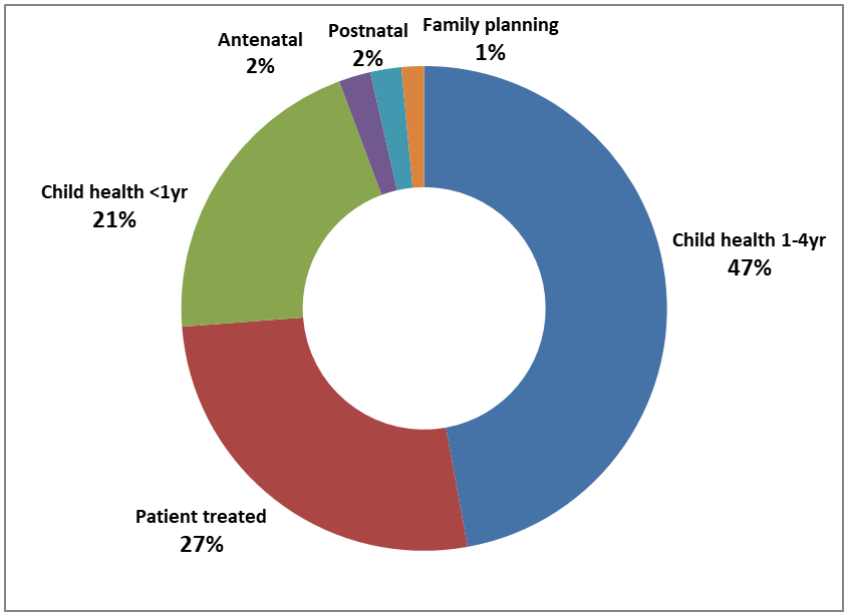


Figure 13: PHN home visits (as a percentage)

Percentage of Low Birth Weight: Percentage of having a low birth weight (<2500g) baby (per 100 live births): **8.1**

Percentage of LBW =	Number of Low Birth Weight babies (<2500 gm) (254) / Total number of live births (3,133)	X 100

Methodological/System Issues:

- Data for 2020 has been sourced from the KHIS & MS1
- Births with unrecorded outcomes were counted as live births.
- Strengthened and timely reporting would contribute to more accurate figures.

Malnourished children: Percentage of children (aged <5 years) classified as malnourished or severely malnourished in the MS1 Health Facility Monthly Reporting Form: **2.6**

Percentage of Malnourished Children =	Total number of malnourished children <5 years (418) / Total population of children (<5 years) (16,191)	X 100

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Data for 2020 has been sourced from the MS1
- Children with unrecorded ages counted as malnourished children
- Strengthened and timely reporting would contribute to more accurate figures.

Table 29: Malnutrition among <5yr children according to districts

District	No.
Central	38
Linnix	6
Northern	146
South Eastern	24
South Western	19
Tarawa & Banaba	185
Total	**418**

Source: MS1 as of 31.12.2020

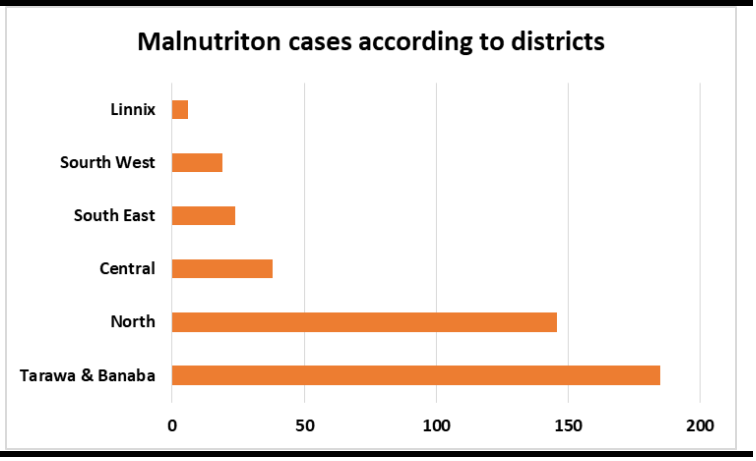


Figure 14: Malnutrition among <5yrs according to districts

Table 30: Malnutrition among <5yr children

Island	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Tarawa North	7	7	6	3	13	20	9	8	8	8	2	1	**92**
Abaiang	6	19	12	9	4	4	2	8	12	5	2	1	**84**
TUC	10	7	2	7		1	3	18	1	1		1	**51**
Marakei	12	8	3	1		1	6	4	4	1	3	2	**45**
BTC	7	2	3	1	2	2	3	12	8	2			**42**
Abemama	1		5	1	2	3	5	1			3		**21**
Beru	1			6	1	7							**15**
Makin	2		1	2		2	3			2	2	1	**15**
Tab North	3	2	2						1		1		**9**
Onotoa		1		1		3	3						**8**
Maiana				1	4		1	1		1			**8**
Arorae	6												**6**
Kiritimati				4	1	1							**6**
Kuria		5											**5**
Aranuka	2	1										1	**4**
Butaritari	1						1						**2**
Nikunau				1								1	**2**
Nonouti		1										1	**2**
Tamana				1									**1**
Grand Total	**58**	**53**	**34**	**38**	**27**	**44**	**36**	**52**	**34**	**20**	**13**	**9**	**418**

Source: MS1 as of 31.12.2020

Contraceptive use: Total number of contraceptive contacts (all forms) seen at health facilities in one year (per 1,000 population): **108.1**

Contraceptive contacts (all forms) seen at health facilities =	Contraceptive contacts (all forms) seen at health facilities (2,488) Women Age 15 – 49 yrs. (31,613)	X 1,000

Methodological/System Issues:

- 2019 projected population is used as base population.
- Data for 2020 has been sourced from the MS1
- All forms of new client and restarts, excluding male condoms (female condom included)
- Strengthened and timely reporting would contribute to more accurate figures.

Table 31: Family Planning services

Method of FP	Category	Month												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Micro-lute	Continuers from last month	21	19	18	26	18	34	32	36	38	35	55	86	418
	New clients	2	3	3	5	15	11	2	6	3	18	32	11	111
	Restart	0	1	0	0	1	0	1	1	3	2	2	0	11
	Discontinuers	1	4	2	5	3	4	4	4	2	5	9	29	72
	Lost contact	7	0	0	0	0	0	0	2	3	0	0	0	12
	Continuers at end of month	17	18	19	26	31	43	33	38	40	56	84	79	484
Micro-gynon	Continuers from last month	56	37	43	49	80	83	76	74	39	86	116	84	823
	New clients	10	11	20	18	14	12	4	8	19	37	10	5	168
	Restart	3	4	0	1	1	10	0	0	2	2	2	0	25
	Discontinuers	4	4	1	8	8	5	6	11	4	4	20	17	92
	Lost contact	12	0	2	0	1	3	2	1	0	0	3	0	24
	Continuers at end of month	51	45	62	59	93	93	73	68	58	127	105	69	903
Depo Provera	Continuers from last month	1200	1107	1099	1111	985	970	885	988	954	881	780	654	11614
	New clients	101	90	105	84	73	73	82	80	64	38	42	69	901
	Restart	52	42	34	17	37	31	30	34	26	15	10	39	367
	Discontinuers	157	115	97	160	117	94	153	75	152	132	142	126	1520
	Lost contact	50	20	8	8	5	14	12	6	15	7	5	2	152
	Continuers at end of month	1138	1122	1131	1008	979	958	855	1008	888	777	649	629	11142
Condoms for male		440	260	271	274	324	220	5512	2678	3112	231	260	440	260
Condoms for female		1	0	14	1	0	16	16	40	10	20	0	1	0
Ovulation		9	7	8	6	10	8	22	15	5	4	10	9	7
IUCD	Inserted this month	1	0	0	3	0	0	4	0	1	3	1	1	0
	Removed this month	3	0	1	4	0	0	0	0	0	0	0	3	0
Jedell	Inserted this month	61	50	38	56	51	81	32	57	58	95	94	61	50
	Removed this month	40	33	46	28	41	51	28	25	36	24	30	40	33
Vasectomy		1	0	0	0	0	0	0	0	0	0	0	1	0
Tubectomy		0	1	1	1	0	0	0	1	1	1	1	0	1

Source: MS1 as of 31.12.2020

9. Immunization Services

Children immunized against measles: Percent of children (aged <1 year) who have received one dose of measles-containing vaccine in one year: **80.7**

Measles Coverage =	Number of children aged <1 years receiving the MCV1 in a year (2,695) / Total number of children aged <1 years (3,339)	X 100

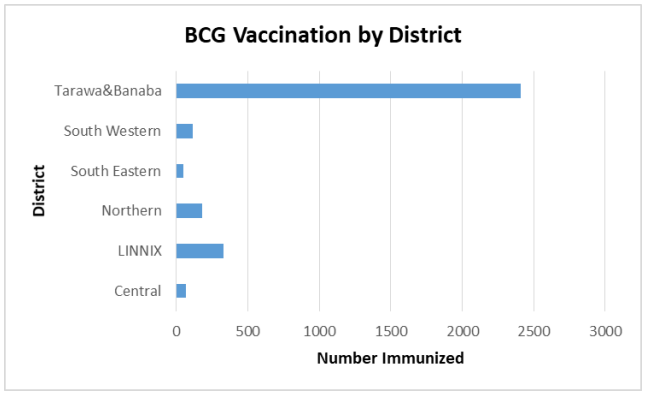
Methodological/System Issues:

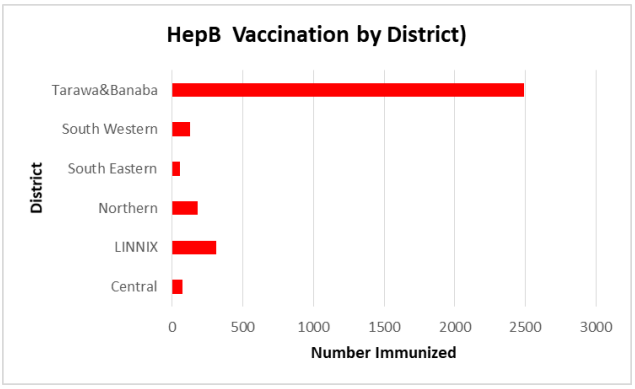
- 2020 projected population is used as base population.
- Data for 2020 has been sourced from the MS1
- Strengthened and timely reporting would contribute to more accurate figures.

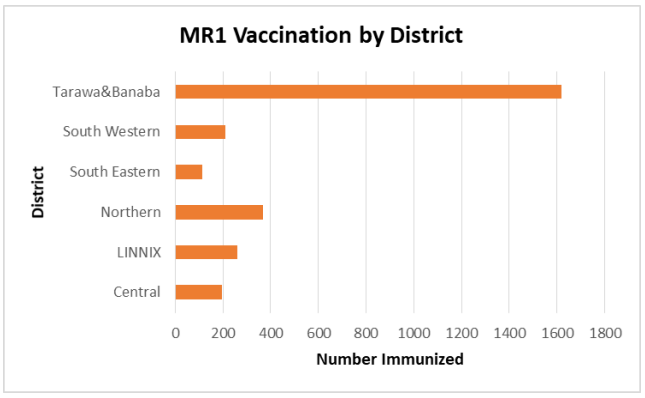
Table 32: Immunization Overview (Children <1yr) according to districts

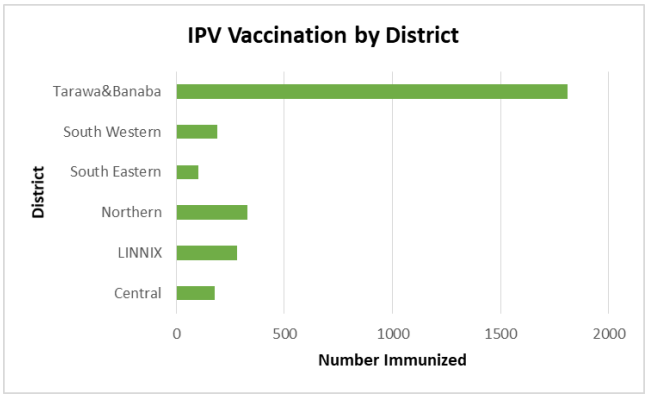
Vaccine type	District						Grand Total
	Central	Linnix	Northern	South Eastern	South Western	Tarawa & Banaba	
BCG	37	305	172	39	134	2417	**1095**
Failed BCG (no scar)		2	4	1	1	1	**9**
HepB (<24 hrs)	36	242	187	28	132	2404	**1020**
HepB (>=24 hrs)	1	36	16	16	1	18	**88**
IPV	173	311	281	73	188	1708	**2734**
MR1	174	268	286	122	194	1651	**2695**
OPV1	120	305	299	75	186	2270	**3255**
OPV2	159	299	323	99	209	2057	**3146**
OPV3	173	272	279	98	192	1964	**2978**
PENTAVALENT1	128	300	300	82	188	2268	**3266**
PENTAVALENT2	165	286	324	105	208	2067	**3155**
PENTAVALENT3	182	264	308	94	214	1965	**3027**
PNEUMOCCOCAL1	122	302	303	80	196	2258	**3261**
PNEUMOCCOCAL2	161	276	325	107	207	2048	**3124**
PNEUMOCCOCAL3	183	262	307	91	203	1962	**3008**
ROTA1	135	291	296	86	189	2191	**3188**
ROTA2	156	260	310	89	194	1922	**2931**
Grand Total	**2105**	**4281**	**4320**	**1285**	**2836**	**31171**	**41980**

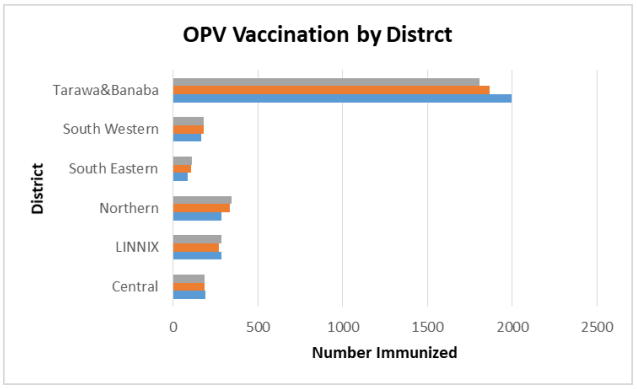
Sources: KHIS and MS1 as of 31.12.2020

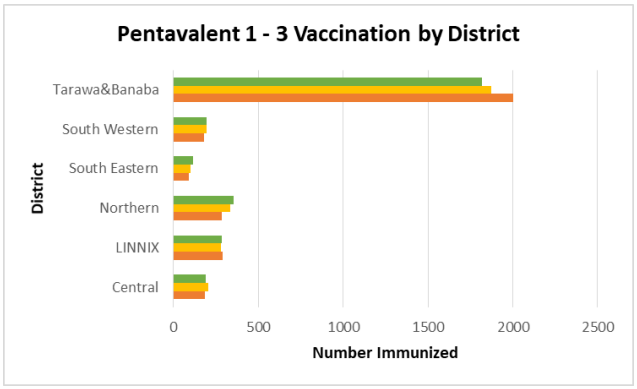


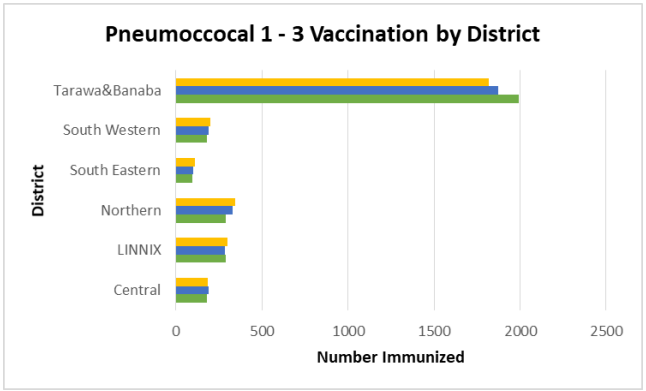












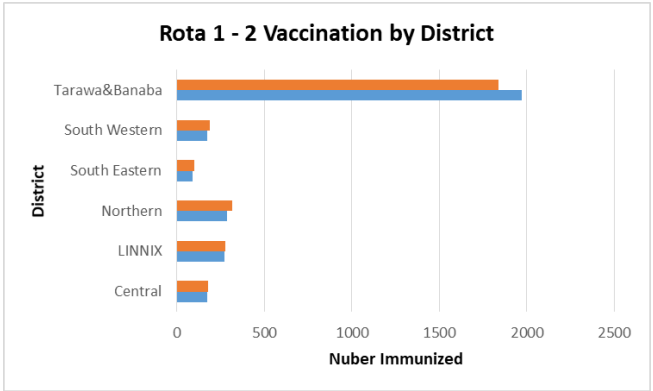


Figure 15: Immunization vaccination (Children <1yr): district breakdowns

Table 33: Immunization Overview (Children <1yr)*

Vaccine type	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
BCG	330	270	267	232	200	280	304	272	228	238	238	245	**3104**
Failed BCG (no scar)	0	2	1	1	0	1	0	1	0	1	2	0	**9**
HepB (<24 hrs)	326	263	263	236	197	283	287	278	225	209	227	235	**3029**
HepB (>=24 hrs)	9	7	1	7	5	7	6	4	5	11	19	7	**88**
IPV	225	215	244	275	176	66	45	61	428	370	306	323	**2734**
MR1	153	238	200	165	216	293	247	207	224	233	223	296	**2695**
OPV1	298	299	285	247	234	245	276	251	307	262	259	292	**3255**
OPV2	234	279	309	282	216	263	255	221	294	253	267	273	**3146**
OPV3	224	205	253	265	261	267	239	228	247	262	264	263	**2978**
PENTAVALENT1	298	309	283	243	241	244	281	255	301	251	270	290	**3266**
PENTAVALENT2	220	273	309	276	218	262	252	234	294	248	278	291	**3155**
PENTAVALENT3	233	211	249	280	267	266	240	222	244	260	276	279	**3027**
PNEUMOCCOCAL1	292	311	280	247	240	242	275	257	296	270	264	287	**3261**
PNEUMOCCOCAL2	220	267	314	275	222	269	246	228	289	249	263	282	**3124**
PNEUMOCCOCAL3	242	216	248	274	259	261	236	224	242	261	267	278	**3008**
ROTA1	311	301	272	248	235	234	280	255	325	200	156	371	**3188**
ROTA2	221	302	303	279	222	254	244	223	289	191	109	294	**2931**

Sources: KHIS and MS1 as of 31.12.2020

Table 34: Immunization Overview (Children 6-14yrs)

Vaccine type	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
DPT4 (All class 1)	4	20	56	18	60	11	145	176	122	357	796	130	**1895**
MR2 (All class 1)	63	29	89	86	75	246	92	271	330	289	763	190	**2523**
TT5 (Form 1 girls)			53	0	0	0	1	11	20	19	0	0	**104**

Source: MS1 as of 31.12.2020

Table 35: Immunization Overview (>15yrs)

Vaccine type	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
TT1 for pregnant women	27	28	28	44	5	18	51	340	32	57	148	72	**850**
TT2 for pregnant women	5	29	46	76	89	78	88	77	80	76	72	80	**796**
TT3 for pregnant women	48	53	69	59	89	64	74	78	78	57	60	66	**795**
TT4 for pregnant women	4	10	60	114	144	133	142	131	163	155	111	137	**1304**
TT5 for pregnant women	0	0	0	0	0	0	0	0	9	178	190	0	**377**

Source: MS1 as of 31.12.2020

Table 36: Immunization Overview (Others)

	Category	Sex	Month												Total
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Vit A (prophylaxis)	6 - <= 12 mths		0	0	47	77	581	12	30	14	214	195	234	180	**1584**
	1 - <= 5 yr		0	0	901	2351	3333	300	195	116	926	1170	1744	1447	**12483**
	Mothers P/partum							6	0	108					**114**
Deworming	1 yr	Male	0	0	174	328	627	32	91	26	200	165	227	180	**2050**
		Female	0	1	137	305	599	45	75	20	219	205	248	166	**2020**
	2 - 5 yr	Male	0	17	546	956	1391	130	191	107	426	614	892	480	**5750**
		Female	0	27	555	903	1277	127	265	76	426	571	897	415	**5539**
	6 - 14 yr	Male	0	31	984	2504	2840	276	518	165	1107	1110	1534	1226	**12295**
		Female	1	34	965	2518	2902	250	447	152	1119	1174	1499	1207	**12268**
	15 - 45 yr	Male	2	0	75	152	134	0	106	0	161	1	320	0	**951**
		Female	0	42	1752	4608	8006	320	417	141	2248	2094	3089	1922	**24639**
Exclusive breastfeeding	0 - <= 6 mths		869	1103	1028	912	955	853	886	1032	997	942	958	966	**11501**

Source: MS1 as of 31.12.2020

Table 37: Immunization Overview for TCH (Children <1yr)

Vaccine type	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Hepatitis B													
Vaccinated <24hrs after birth	198	173	172	159	141	177	162	177	149	168	161	172	**2009**
Vaccinated >24hrs after birth													
Not given	1	3	3	4	5	4	5	6	3	5	5	7	**51**
Total	**199**	**176**	**175**	**163**	**146**	**181**	**167**	**183**	**152**	**173**	**166**	**179**	**2060**
BCG													
Given	198	173	172	159	141	177	162	177	149	168	161	172	**2009**
Not given	1	3	3	4	5	4	5	6	3	5	5	7	**51**
Total	**199**	**176**	**175**	**163**	**146**	**181**	**167**	**183**	**152**	**173**	**166**	**179**	**2060**

Source: KHIS as of 31.12.2020

10. Birth information: TCH

Table 38: Birth outcomes according to mode of delivery at TCH

Mode of Delivery	Outcome		Sub Total
	Live birth	Stillbirth	
Normal	1544	43	**1587**
Caesarean Section	465	8	**473**
Forceps	0	0	**0**
Other	0	0	**0**
Grand Total	**2009**	**51**	**2060**

Source: KHIS as of 31.12.2020

Table 39: Births outcomes according to type of delivery at TCH

Type of delivery	Outcome		Sub Total
	Live birth	Stillbirth	
Vertex	1995	48	2043
Breech	14	1	**15**
Transverse		2	**2**
Grand Total	**2009**	**51**	**2060**

Source: KHIS as of 31.12.2020

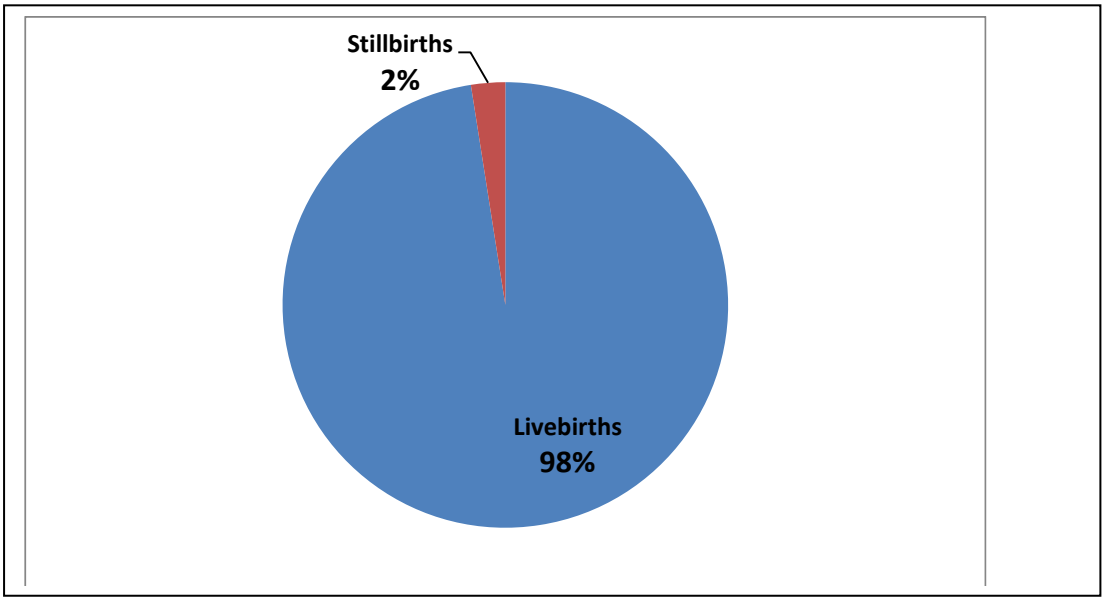


Figure 16: Birth outcome at TCH

11. Birth information: Island Hospitals, Health Centers and Clinics (Excluding TCH births)

Table 40: Birth outcomes reported from island Health Centers and clinics*

Outcome	Number
Live birth	1,124
Stillbirth	13
DIU	6
Outcome unrecorded	
Grand Total	**1,143**

Data extracted from MS1 as at 31.12.2020

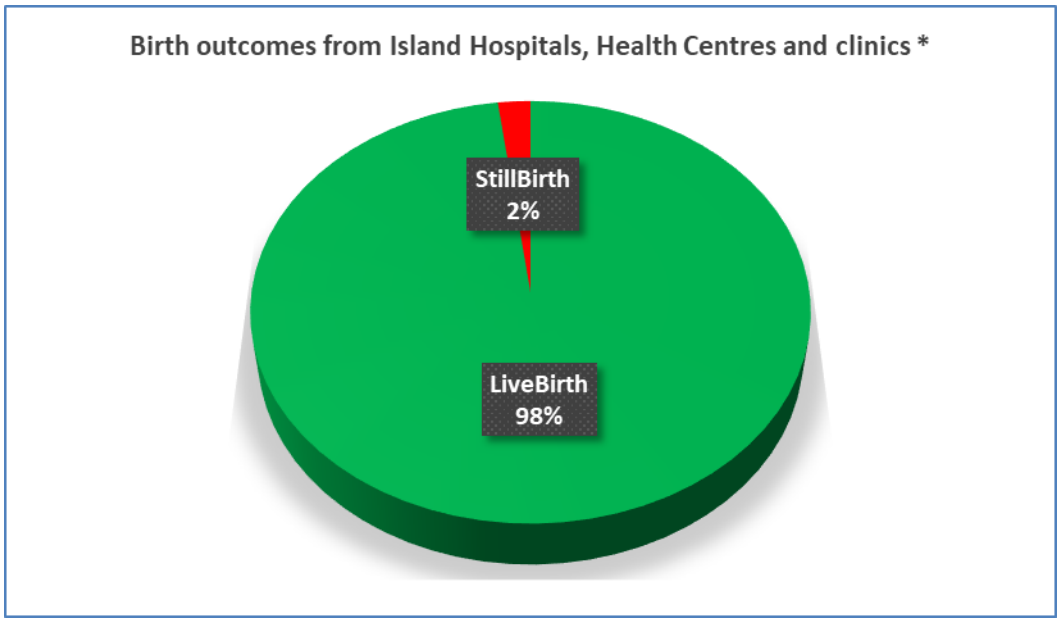


Figure 17: Birth outcomes reported from island Health Centres and clinics *excluding TCH

Table 41: Deliveries at Island Hospital, Health Centers and clinics

	Total No. of Births		
	HC/Clinics	Hospital	Sub Total
Abaiang	73		**73**
Abemama	18		**18**
Aranuka	5		**5**
Arorae	7		**7**
Banaba	3		**3**
Beru	15		**15**
BTC	10	339	**349**
Butaritari	58		**58**
Kanton	2		**2**
Kiritimati	6	191	**197**
Kuria	5		**5**
Maiana	8		**8**
Makin	22		**22**
Marakei	52		**52**
Nikunau	15		**15**
Nonouti	46		**46**
Onotoa	19		**19**
Tab North	3	60	**63**
Tab South	13		**13**
Tabuaeran(Fanning)	41		**41**
Tamana	7		**7**
Tarawa North	74		**74**
Teraina(Washington)	28		**28**
TUC	23		**23**
Grand Total	**553**	**590**	**1143**

Source: MS1 as at 31.12.2020

12. Birth information: District Breakdown

Table 42: Births according to districts*

District	No. of Births
Central	36
Linnix	268
Northern	205
South Eastern	44
South Western	141
Tarawa & Banaba	2509
Grand Total	**3,203**

Source: KHIS & MS1 as at 31.12.2020

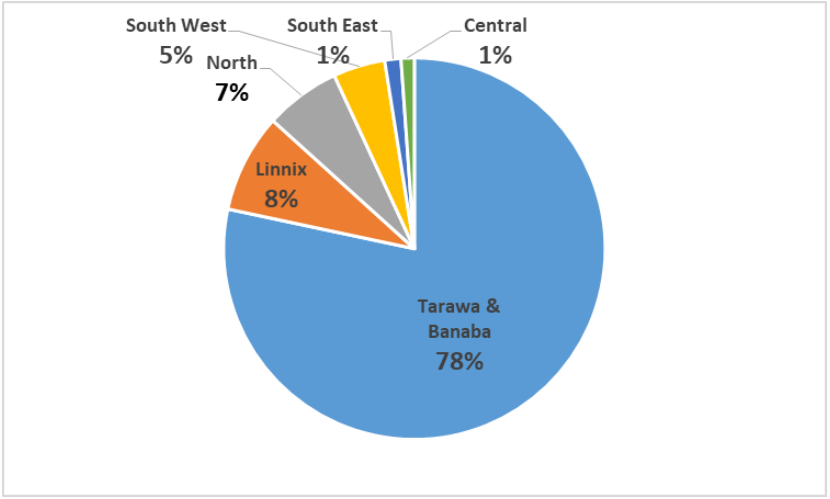


Figure 18: Births according to districts

13. Country birth information

Adolescent birth rate for 10-14 years: Probability of giving birth between the age 10-14 years in a given year (per 1,000 girls age 10-14 years): **0.7**

Adolescent birth rate (10-14 years) =	Total number of births in age group 10-14 years for the year (4) / Total population of girls (10-14 years) (6,051)	X 1,000

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Data for 2020 has been sourced from the KHIS & MS1

Adolescent birth rate for 15-19 years: Probability of giving birth between the age 15-19 years in a given year (per 1,000 girls age 15-19 years): **31.8**

Adolescent birth rate (15-19 years) =	Total number of births in age group 15-19 years for the year (181) / Total population of girls (15-19 years) (5,699)	X 1,000

Methodological/System Issues:

- 2020 Projected population is used as base population.
- Data for 2020 has been sourced from the KHIS & MS1

Table 43: Births reported from Hospitals, Health Centers and Clinics*

Outcome	No.
Live birth	3,133
Stillbirth	70
Grand Total	**3,203**

Sources: KHIS & MS1 as at 31.12.2020

Figure 19: Country birth outcomes

14. Non- Communicable Disease (NCD) burden

Diabetes: Occasion of service of diabetes mellites cases to health facilities, confirmed or suspected: **94.7**

% of Diabetes =	Number of people presenting to health facilities with Diabetes (11,850) / Total population (125,084)	X 1,000

Methodological/System Issues:

- Data for 2020 has been sourced from the MS1 and is likely to be affected by under-counting and/or multiple counting.
- First and revisits for diabetic cases over the total population
- Strengthened and timely reporting of MS1 would contribute to more accurate figures

Hypertension: Occasion of service of hypertension cases to health facilities, confirmed or suspected: **94.5**

% of Hypertension =	Number of people presenting to health facilities with Hypertension (11,818) / Total population (125,084)	X 1,000

Methodological/System Issues:

- Data for 2020 has been sourced from the MS1 and is likely to be affected by under-counting and/or multiple counting.
- First and revisits for hypertension cases over the total population
- Strengthened and timely reporting of MS1 would contribute to more accurate figures

Table 44: NCD burden in Island Health Centers and Village Clinics

NCD	Patient registration & visit	Month												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Hypertension	**Patients registered (Male)**	909	962	972	990	1065	1018	1009	1061	1071	1075	1083	1158	**1158**
	Patients registered (Female)	1034	1209	1153	1217	1291	1267	1241	1315	1284	1350	1303	1409	**1409**
	1st visit	172	53	71	94	42	84	55	62	80	64	56	55	**888**
	Re-visits	699	783	832	841	960	998	885	1043	1001	982	1039	867	**10930**
Diabetes	**Patients registered (Male)**	801	844	842	894	922	904	911	977	944	981	982	1060	**1060**
	Patients registered (Female)	1231	1414	1353	1439	1524	1498	1464	1518	1525	1531	1554	1630	**1630**
	1st visit	130	60	95	66	51	54	26	41	74	57	53	65	**772**
	Re-visits	816	847	943	883	950	1033	913	770	1025	984	1064	850	**11078**
Diabetes + Hypertension	**Patients registered (Male)**	393	428	440	483	487	486	525	539	546	533	543	530	**530**
	Patients registered (Female)	567	629	590	619	658	643	646	684	678	692	680	690	**690**
	1st visit	74	25	24	30	19	32	17	20	32	13	16	17	**319**
	Re-visits	436	459	491	438	524	613	589	458	543	516	591	477	**6135**
Mental illnesses	**Patients registered (Male)**	40	40	45	45	54	49	55	53	60	57	63	62	**62**
	Patients registered (Female)	28	25	31	27	31	34	34	36	32	30	34	34	**34**
	1st visit	9	3	2	5	2	4	4	6	2	1	1	3	**42**
	Re-visits	13	21	31	19	25	27	30	31	35	41	44	47	**364**

Source: MS1 as at 31.12.2020

15. Tuberculosis burden

Tuberculosis case notification rate: The number of bacteriologically confirmed (new and relapse) tuberculosis cases in a given year (per 100,000 population): **305.4**

Tuberculosis case notification rate =	Number of bacteriologically confirmed (new & relapse) TB cases (382) / Total Population (125,084)	X 100,000

Methodological/System Issues:

- 2020 Projected population is used as the base population
- Data for 2020 has been sourced form MS1 (from TB reports only)
- Strengthened and timely reporting of MS1 would contribute to more accurate figures

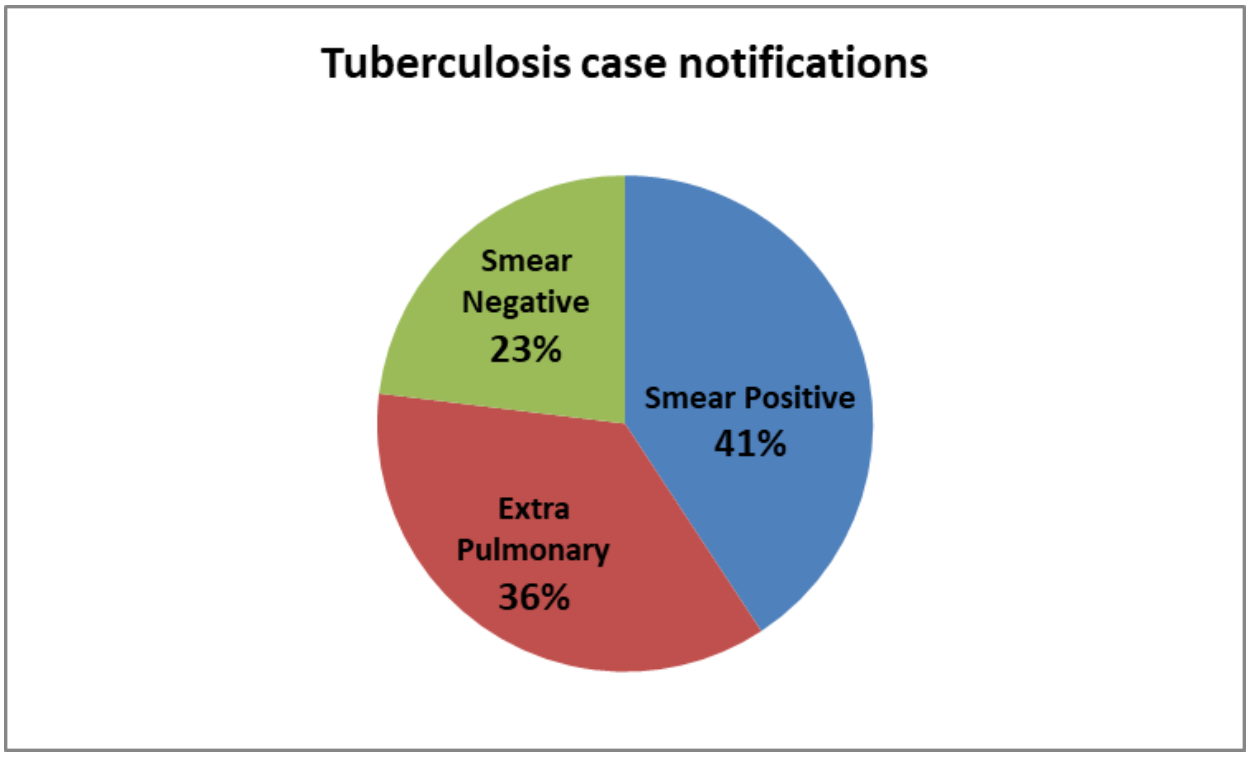


Figure 20: Tuberculosis case notifications (new & relapsed) for 2020

Tuberculosis treatment success rate: Percentage of new, bacteriologically confirmed smear-positive tuberculosis cases that were cured or in which a full course of treatment was completed: **92.4**

Tuberculosis treatment success rate =	Treatment completed + cured TB cases (379) / Number of (new + relapsed) TB cases registered for the year (410)	X 100

Methodological/System Issues:

- There is a one year lag in reporting for TB treatment success rate
- Data on treatment completed/Cured TB Cases (for 2019) were sourced form National Tb control program
- Data for 2019 has been sourced from the MS1 (from TB reports only)
- Strengthened and timely reporting of MS1 would contribute to more accurate figures.

Table 45: Tuberculosis Reporting

Type	Category	Month												Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Smear Positive	New Cases	22	17	12	12	10	19	12	5	11	9	8	15	152
	Retreatment		4	1				1						6
	Defaulted	2												2
	Fail												1	1
Smear Negative	New Cases	5	3	5	1	2	6	1	14	15	12	11	11	86
	Retreatment								1	1				2
Extra Pulmonary	New Cases	4	9	21	12	8	17	9	11	14	14	7	9	135
	Retreatment												1	**1**

Source: MS1 as at 31.12.2020

16. Leprosy burden

Table 46: Leprosy Reporting

Type		Category	Month												Total
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
MB	Adult	Continuers from last month	60	65	61	60	59	63	67	70	73	73	77	85	**813**
		New clients	3	8	3	1	6	4	3	3	1	4	8	3	**47**
		Restart	6	1											**7**
		Discontinuers			4	2	1				1				**8**
		Lost contact	1	12											**13**
		Continuers at end of month	65	62	60	59	63	67	70	73	73	77	85	88	**842**
	Child	Continuers from last month	13	15	14	15	16	17	17	17	17	17	19	19	**196**
		New clients	2		2	1	1	1		1		2		4	**14**
		Restart		1											**1**
		Discontinuers			1			1		1					**3**
		Lost contact		1											**1**
		Continuers at end of month	15	15	15	16	17	17	17	17	17	19	19	23	**207**
PB	Adult	Continuers from last month	27	26	26	28	32	38	39	43	45	46	52	60	**462**
		New clients	3	3	4	4	7	1	4	4	1	6	8	8	**53**
		Restart	1	1											**2**
		Discontinuers			2		1			2	1				**6**
		Lost contact	3	2											**5**
		Continuers at end of month	26	26	28	32	38	39	43	45	45	52	60	68	**502**
	Child	Continuers from last month	12	8	8	10	10	13	13	15	15	15	20	23	**162**
		New clients	2	1	2		3		2			5	3	2	**20**
		Restart													
		Discontinuers													
		Lost contact	3	1											**4**
		Continuers at end of month	8	8	10	10	13	13	15	15	15	20	23	25	**175**

Source: MS1 as at 31.12.2020

17. Trends in births and deaths for Kiribati (2015-2020)

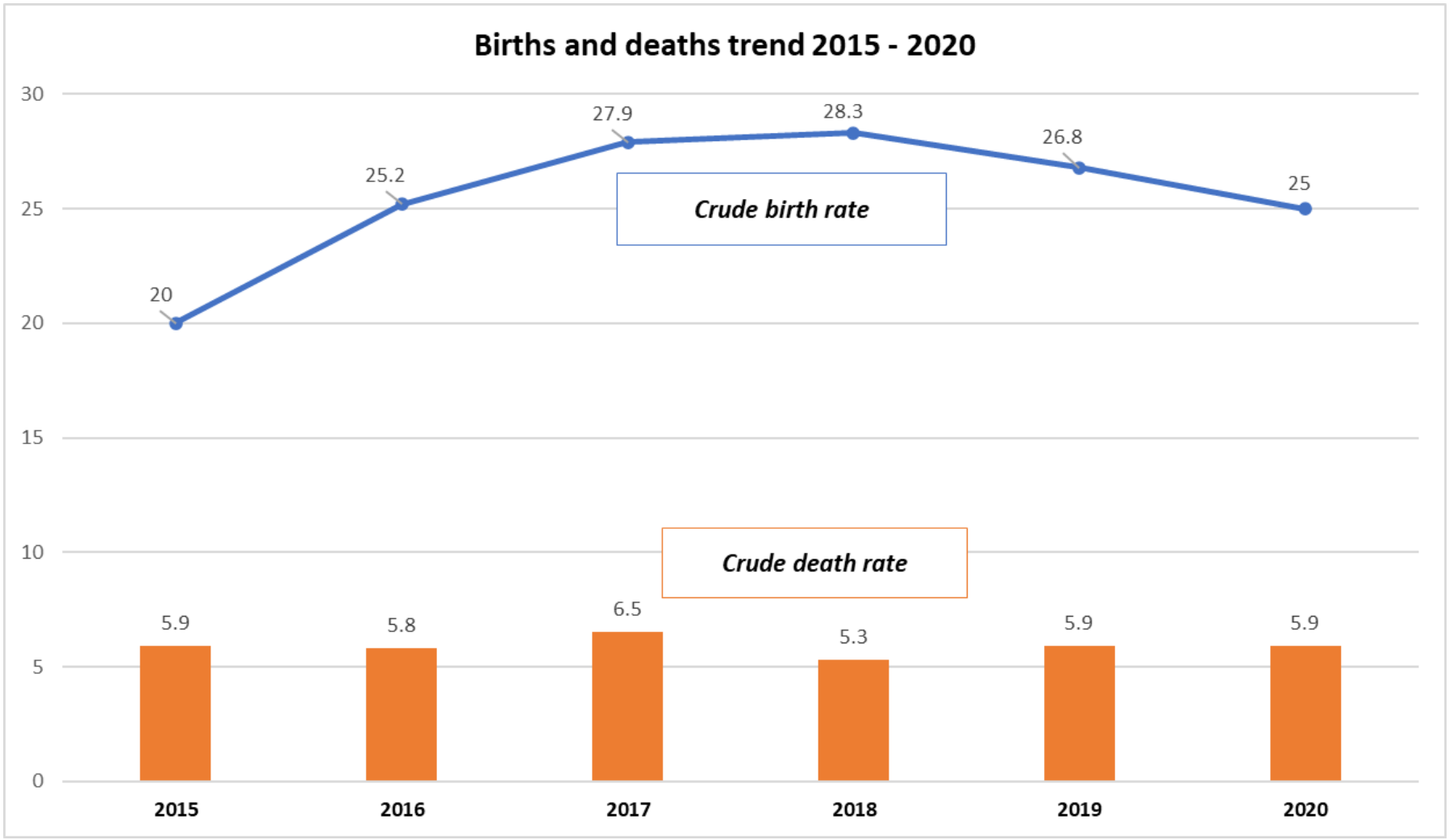


Figure 20: Trends in births and deaths for Kiribati during 2015 to 2020

18.Previous five-year major health indicator tracker for Kiribati (2015-2020)

Indicator Tracker	2016	2017	2018	2019	2020	Δ
Total Population	110,136	110,136	120,139	122,604	125,084	⇑
Crude Birth Rate	25.2	27.9	28.3	26.8	25.0	⇓
Crude Death Rate	5.8	6.5	5.3	5.9	5.9	⇔
Life Expectancy at Birth	68.9	66.6	69	66.5	71.7	⇑
Land Area (klm2)	726	726	726	726	726	⇔
Neonatal Mortality Rate	14	11.1	12.9	10.4	16.0	⇑
Infant Mortality Rate	32.6	26.4	28.3	29.3	28.1	⇓
Under-five Mortality Rate	52.4	44	36.2	47.9	42.5	⇓
Maternal Mortality Rate	179	32.6	117.7	91.5	95.8	⇑
Adult mortality rate from NCDs	43.4	55.9	54.8	54.0	52.3	⇓
Mortality rate from road traffic injuries	1.8	10.9	0.6	4.9	2.4	⇓
Adolescent birth rate for 10-14 years	0	1.8	0.4	0.2	0.7	⇑
Adolescent birth rate for 15-19 years	37	45.2	37.8	44.0	31.8	⇓
Contraceptive use	336	264.6	247.5	108.1	108.1	⇔
Access to antenatal care	3.8	4	4	4.6	5.3	⇑
Percentage of pregnant mothers received at least one home visit by PHN	15.2	10.4	9.3	9.4	9.3	⇓
Percentage of Low Birth Weight	5.6	7.2	7.2	7.4	8.1	⇑
Malnourished children <5 years	6.2	5	3.1	2.8	2.6	⇓
Tuberculosis case notification rate	470	353.2	224.7	339.3	305.4	⇓
Tuberculosis treatment success rate	90	88.9	91.4	81.0	92.4	⇑
Number of Leprosy cases (new and relapses)	241	200	165	144	144	⇔
Acute respiratory infection (ARI) in children treated at TCH	14.4	15.9	12	13.5	21.7	⇑
Children immunized against measles	82.9	92.2	81.4	84.5	80.7	⇓
Diabetes - Occasions of Service	150	162	120.3	112.0	94.7	⇓
Hypertension - Occasions of Service	145	147	113.5	99.5	94.5	⇓
Outpatient consultations per capita	4.9	4.8	4.4	4.2	4.8	⇑
Outpatient consultations per capita for Tungaru Central Hospital (TCH)	0.1	0.3	0.3	0.5	0.4	⇓
TCH (weekly patient discharges)	104.8	104.8	113.8	115	104.1	⇓
Tungaru Central Hospital (bed occupancy)	83.4	85.3	98.9	99.7	84.2	⇓
Tungaru Central Hospital (average length-of-stay)	7.2	6.5	7	6.9	6.5	⇓
Number of Hospital Beds per 1,000 population	1.9	1.9		2.0	2.1	⇑
Availability of Medical Officers	4.7	6	4.9	5.1	5.0	⇑
Population per Medical Officer	2,248	1,669	2,036.30	1,977.5	2,017.5	⇑
Availability of Dental Surgeons	0.5	0.5	0.5	0.6	0.6	⇔
Population per Dental Surgeon	18,356	18,356	20,023.20	17,514.9	17,869.1	⇑
Availability of Medical Assistants	3.2	3.7	3.5	3.9	3.8	⇓
Population per Medical Assistant	3,147	2,686	2,860.50	2,554.3	2,605.9	⇑
Availability of Nurses	31.8	34.8	31	29.4	28.9	⇓
Population per Nurse	315	287.6	323	339.4	346.5	⇑
Availability of Midwives	7	6.8	7.6	4.4	4.3	⇓
Population per Midwife	1,430	1,469	1,320.20	2,270.4	2,316.4	⇑

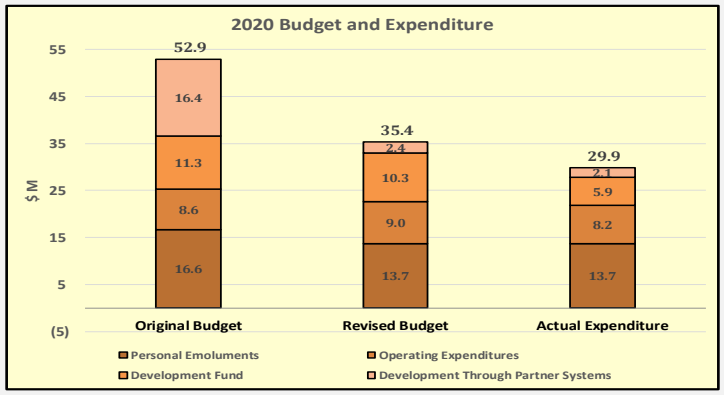
Number of Pharmacists available	5	5	5	7	7	⇔
Number of Physiotherapists available	3	3	3	5	5	⇔
Number of Hospitals	4	4	4	4	4	⇔
Number of Health Centers	22	22	22	22	22	⇔
Number of Village Clinics	82	84	85	88	90	⇑
Number of Hospital Beds	205	205	205	255	259	⇑

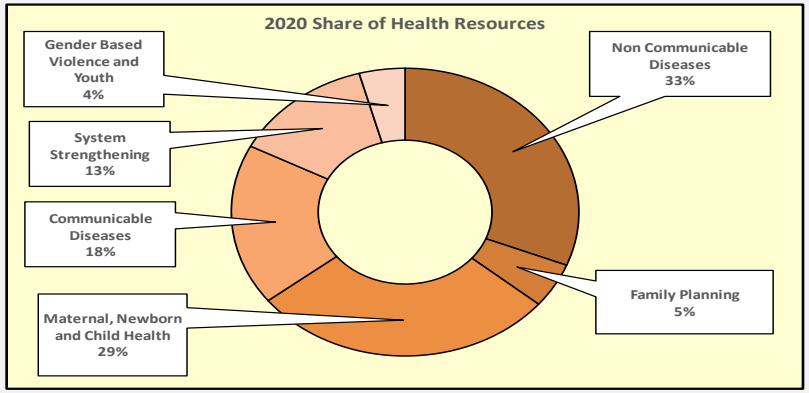
19.Service Delivery Statement for the year 2020: Overview of Kiribati Health Resources

Overview - Kiribati Health Resources 2020

Expenditure per capita: $A 239 (Population - 125,084)

Financial:





Physical:

Skilled Health Workers:				**Allied Health Workers:**				**Facilities:**			
Number	62	48	361	Number	7	7	5	Number	4	22	87
	Medical Officers	Medical Assistants	Nurses		Dental Surgeons	Pharmacists	Physiotherapists		Hospitals	Health Centres	Clinics
Hospital Beds:											
Number	259										
	Beds										

Data Sources: Financial: - MHMS 2020 Recurrent and Project Report (Preliminary) Health Information: - Kiribati Health Information Unit

Figure 21: SDS Overview – Kiribati Health Resources 2020

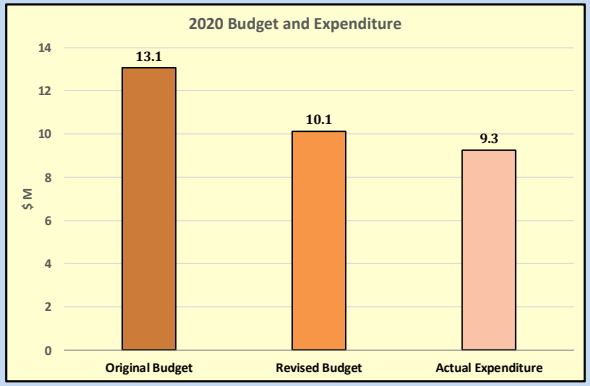
Strategic Objective 1: Non-Communicable Diseases

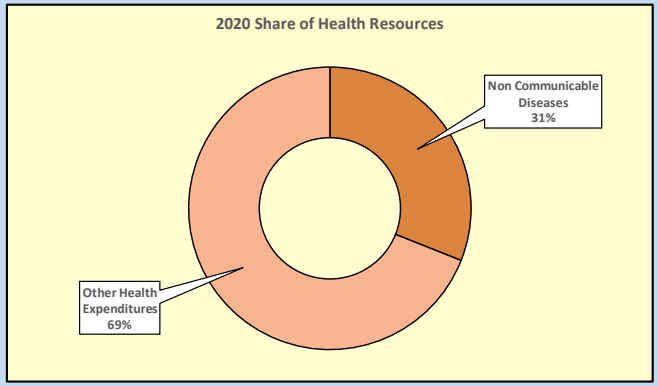
Non Communicable Diseases

Expenditure per capita: $A 74 Progress:

2020

Finances:





Results:

NCD Mortality Rate:				**Diabetes Related Amputations (Excluding Digits):**				**Diabetes - Occasions of Service:**			
Deaths Per 10,000 Population	54 (2019)	52 (2020)	↓ Trend	Number of Ampu-tations	87 (2019)	87 (2020)	↔ Trend	Number Per 1,000 Population	112 (2019)	95 (2020)	↓ Trend
Hypertension - Occasions of Service:				**Road Traffic Deaths:**							
Number Per 1,000 Population	100 (2019)	94 (2020)	↓ Trend	Deaths Per 100,000 Population	4.9 (2019)	2.4 (2020)	↓ Trend				

Data Sources: Financial: - MHMS 2020 Recurrent and Project Report (Preliminary) Health Information: - Kiribati Health Information Unit

Figure 22: SO 1 - Non Communicable Diseases

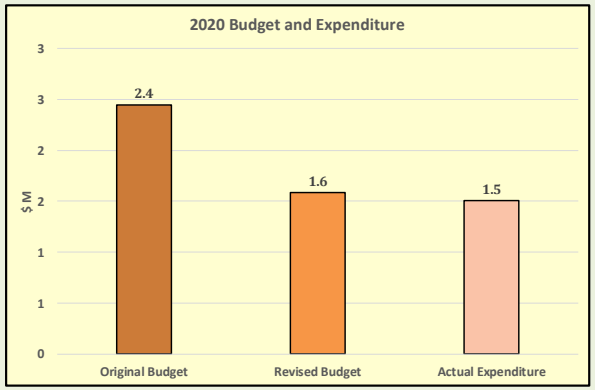
Strategic Objective 2: Family Planning

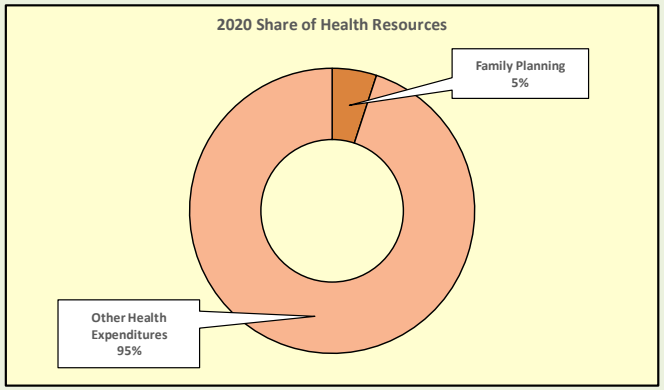
Family Planning

Expenditure per capita: $A 12 Progress: ✅

2020

Finances:





Results:

Adolescent Birth Rate 10 to 14 Years:				
Births Per 1,000 Girls That Age	0	1	⇔	
	2019	2020	Trend	
Adolescent Birth Rate 15 to 19 Years:				
Births Per 1,000 Girls That Age	35	32	↓	
	2019	2020	Trend	
Contraceptive Contacts (Excluding Condoms):				
Contacts Per 1,000 Population	24	19	↓	
	2019	2020	Trend	
Contraceptive Contacts (Including Condoms):				
Contacts Per 1,000 Population	65	239	↑	
	2019	2020	Trend	

Data Sources: Financial: - MHMS 2020 Recurrent and Project Report (Preliminary) Health Information: - Kiribati Health Information Unit

Figure 23: SO 2 - Family Planning

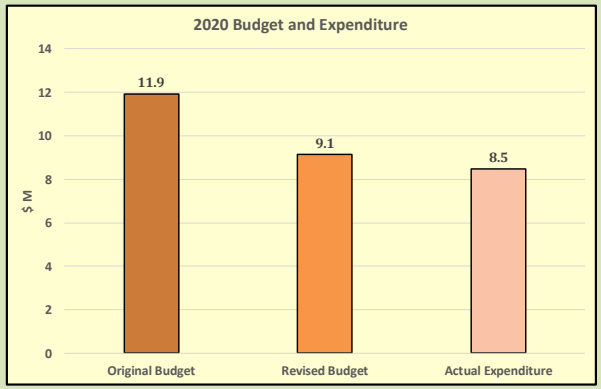
Strategic Objective 3: Maternal, Newborn and Child Health

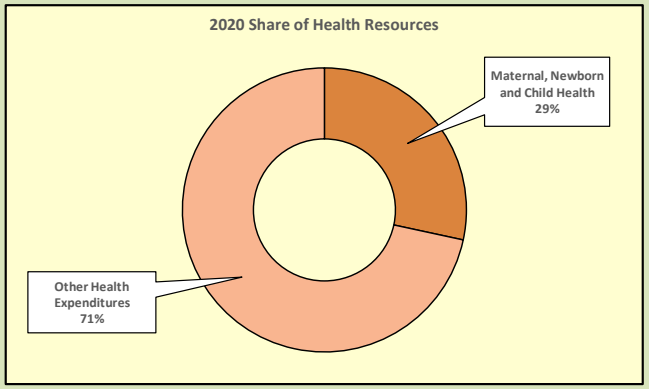
Maternal, Newborn and Child Health

Expenditure per capita: $A 68 Progress: ✅

2020

Finances:





Results:

Maternal Deaths:				**Neonatal Mortality:**				**Infant Mortality:**			
Number of Deaths	3	3	⇔	Deaths Per 1,000 Live Births	10.7	16.3	↑	Deaths Per 1,000 Live Births	29	28	⇔
	2019	2020	Trend		2019	2020	Trend		2019	2020	Trend
Under Five Mortality:				**Births Attended By Skilled Health Worker:**				**Childhood Measles Immunisation:**			
Deaths Per 1,000 Live Births	48	43	↓	Percentage Attended	96.9	97.1	⇔	At Least One Vaccination By 12 Months	85	81	↓
	2019	2020	Trend		2019	2020	Trend		2019	2020	Trend
Malnutrition:											
Cases Under Five Years	453	353	↓								
	2019	2020	Trend								

Data Sources: Financial: - MHMS 2020 Recurrent and Project Report (Preliminary) Health Information: - Kiribati Health Information Unit

Figure 24: SO 3 - Maternal, Newborn and Child Health

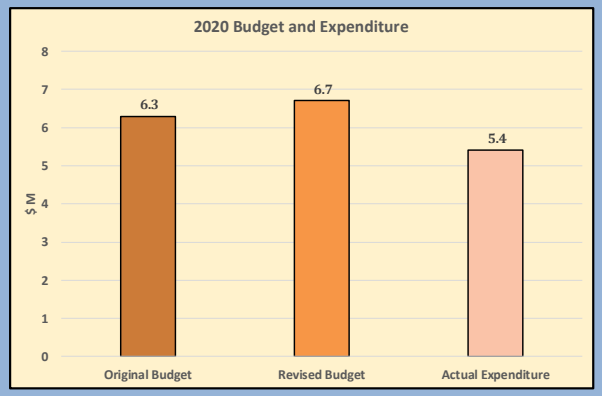
Strategic Objective 4: Communicable Diseases

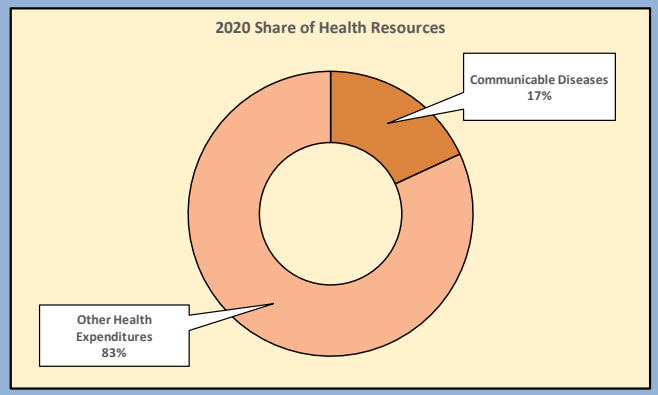
Communicable Diseases

Expenditure per capita: $A 43 Progress:

2020

Finances:





Results:

TB Case Notification Rate:	2019	2020	Trend
Notifications Per 100,000 Population	334	308	↓

International Health Regulations Core Capacities:	2019	2020	Trend
Yes/No	No	No	↔

No report

TB Treatment Success Rate:	2019	2020	Trend
Percentage Success	92	92	↔

Data Sources: Financial: - MHMS 2020 Recurrent and Project Report (Preliminary) Health Information: - Kiribati Health Information Unit

Figure 25: SO4 - Communicable Diseases

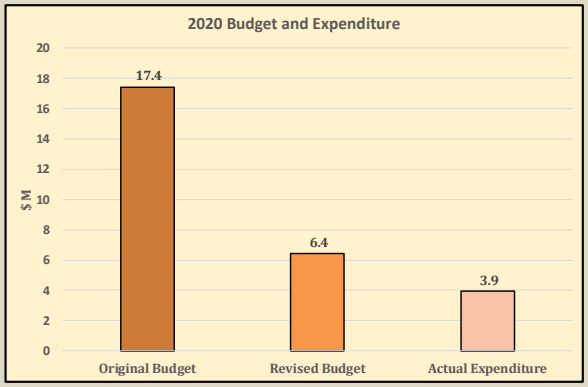
Strategic Objective 5: System Strengthening

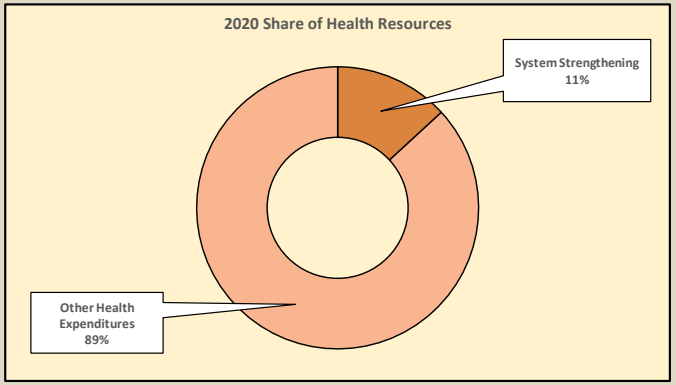
System Strengthening

Expenditure per capita: $A 31 Progress:

2020

Finances:





Results:

Quarterly Health and Finance Reports:				**Health Workers:**				**Availability of Essential Medicines at All Facilities:**			
Number of Reports	0	0	⇔	Workers Per 10,000 Population	38.4	32	⇩	Percentage Available	85	80.8	⇩
	2019	2020	Trend		2019	2020	Trend		2019	2020	Trend
						To be confirmed			@May 19	Work in progress	
Outpatient Consultations:				**Share of GoK Recurrent Budget:**				**DP Share of Total Health Expenditure:**			
Consultat-ions Per Capita	4.2	3.7	⇩	Percentage Share	14.5	12.1	⇩	Percentage Share	20	15.3	⇩
	2019	2020	Trend		2019	2020	Trend		2019	2020	Trend
										Awaiting DP reports	
Total Spending on Health Per Capita:				**Bed Occupancy Rate:**				**Average Length of Stay:**			
$AUD	312	239	⇩	Percentage Occupancy	99.7	84	⇩	Days	6.9	6.5	⇔
	2019	2020	Trend		2019	2020	Trend		2019	2020	2018
		Awaiting DP reports									

Data Sources: Financial: - MHMS 2020 Recurrent and Project Report (Preliminary) Health Information: - Kiribati Health Information Unit

Figure 26: SO 5 - System Strengthening

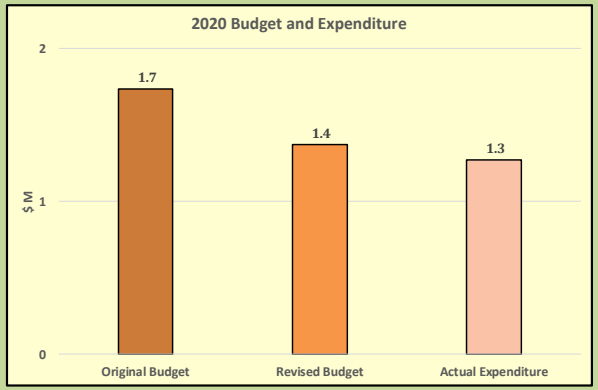
Strategic Objective 6: Gender-based Violence and Youth Services

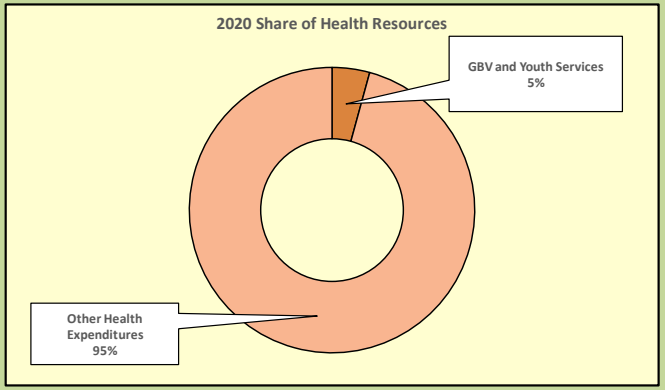
Gender-based Violence and Youth Services

Expenditure per capita: $A 10 Progress:

2020

Finances:





Results:

GBV Cases:

	2019	2020	Trend
Number of Cases Reported	386	495	↑

Data Sources: **Financial: - MHMS 2020 Recurrent and Project Report (Preliminary)** **Health Information: - Kiribati Health Information Unit**

Figure 27: SO 6 - Gender-based Violence and Youth Services

Monthly reports submitted in 2000

Island	Health Center	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Makin	MAKIN												
	ANRAWA												
	KIEBU												
Butaritari	BUTARITARI												
	KUMA												
	NAKIRORO												
	TEKANANUEA												
	TANIMAIAKI												
	UKIANGANG												
	BIKATI												
	KEUEA												
Marakei	RAWANNAWI												
	TEKARAKAN												
	BAINUEA												
	TERAWARAWA												
	RAWEAI												
Abaiang	TABURAO												
	NUOTAEA												
	TANIAU												
	RIBONO												
	TEBUNGINAKO												
	KOINAWA												

	TANIMAIAKI												
	UBWARANO												
	TUARABU												
	NIKUAO	NEW CLINIC 2020											
Tarawa North	ABAOKORO												
	TEARINIBAI												
	BUARIKI												
	TARATAI												
	TABITEUEA												
	NABEINA												
	TABONIBARA												
	NOTOUE												
	KAINABA												
TUC	TCH-OPD												
	BONRIKI EAST												
	BUOTA(TUC)												
	BONRIKI												
	TEMWAIKU												
	BIK.E												
	BIK.W												
	EITA												
	AMBO												
	BANRAEABA												
	TEAORAEREKE												
	NANIKAI												

	BAIRIKI												
BTC	BETIO HOSP												
	TEMANOKU(BTC)												
	TAKORONGA												
	TEMAKIN												
Banaba	BANABA												
Maiana	TABONTEKEKE												
	TEKARANGA												
	BUBUTEI												
	TEBIKERAI												
	TANIMAEAO												
Kuria	KURIA												
	ONEKE												
Aranuka	ARANUKA												
	TAKAEANG												
	BAURUA												
Abemama	KARIATEBIKE												
	ABATIKU												
	TABIANG												
	TEKATIRIRAKE												
	BARETOA												
	KABANGAKI												
	TEBWANGA												
	MWANOKU												
Nonouti	TEBOBONGA												

	TEMOTU												
	TEUABU												
	ABAMAKORO												
	MATABOOU												
	ROTIMWA												
	TABOIAKI												
	TEMANOKU(Nonouti)												
Tab North	SKH												
	UTIROA												
	TANAEANG												
	BUOTA(Tab.N)												
	TENATORUA												
	AIWA												
	TEKABUIBUI												
	KABUNA												
	TAUMA												
	TEKAMAN												
Tab South	BUARIKI(Tab.S)												
	TEWAI												
	TAKU												
Onotoa	BURAITAN												
	AIAKI												
	TABUARORAE												
	TEKATANA												
	OTOAE												

Beru	TEMARA												
	NAMON												
	AONNATI												
Nikunau	MWANRUNGA												
	MURITOA												
	NIKUMATANG												
Tamana	MOTOIA												
Arorae	TARIBO												
Kiritimati	LONDON HOSP												
	BANANA												
	POLAND												
	TABWAKEA												
	LONDON DISP												
	BANANA2									NEW CLINIC 2020			
Tabuaeran	PAELAU												
	NAPALI												
	ARAMARI												
Teraina	ARABATA												
Kanton	CANTON												
TCH	TCH-DIABETIC												
	KFHA												
	TCH-GYNAE												
	TCH-TB												
	TCH-ANC												
	TCH-Leprosy												

	TCH-IMCI												
	HEALTHY FAMILY												
	YOUTH FRIENDLY HEALTH SERVICE												
	RH												
	AHD												
	Anaieta Pharmacy												
	Prison												
Total Received		**123**	**123**	**124**	**123**	**124**	**124**	**124**	**124**	**124**	**124**	**123**	**121**
Total Non-received		**6**	**6**	**5**	**6**	**5**	**5**	**5**	**5**	**5**	**5**	**6**	**8**

Notes