



PROVINCIAL GENERAL HOSPITAL - BADULLA, SRI LANKA



2013 ANNUAL REPORT



1891
Inception



1955



Operation Theatre
Radiology Unit
Administration Building

2002



Medical, Neurology, GU
GU Surgery, Cardiology, CCU
Building Complex

2007



Clinical Oncology &
Surgical Oncology
Building Complex

2010



Psychiatrics/Dental & OMF
Wards & Psychiatry,
Medical, Dental Clinics

2009



OPD/ETU/ICU
Clinics & Theatre
Building Complex

2008



New Drug Stores
Building Complex

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Message from the Director



I am pleased to present our Annual Report for year 2013 and this year we publish a report that provides you with an overview of our services, their performances and achievements.

I am filled with a sense of pride for what we have accomplished during the last year, but also a sense of purpose for what still needs to be done. Our priority has been to implement strategies to achieve our vision of being a leading institution in the provision of innovative and comprehensive healthcare and we have exerted maximal effort to provide standardized quality healthcare to meet the needs of patients across the healthcare spectrum.

It is our strong belief that healthier communication with local stakeholders contributes to the development of hospital. Appreciating that concept, we have been able to expand our partnership with local institutions, communities and other interested groups fruitfully during the last year.

I would like to take advantage of this opportunity to thank all those who helped to make 2013 a successful year for PGH Badulla.

I remain ever appreciative of the guidance, encouragement and support received from Hon. Maithripala Sirisena, Minister of Health, the Secretary of Ministry of Health, the Director General of Health Services, Deputy Director General and other officials of the ministry of health

I also admire all the hospital staff including consultants for their unflagging commitment & external stakeholders for their enthusiasm in joining hands with us to make our vision more realistic and achievable

Dr K.M.D Dharmapriya.
Director,
Provincial General Hospital,
Badulla.

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OVERVIEW



Provincial General Hospital—Badulla has been serving the greater needs of Uva province for nearly more than 120 years ,improving the quality of life in the communities it serves . As a fully pledged tertiary care hospital, it is dedicated to provide 24 hour emergency care and specialized surgical, medical , diagnostic and outpatient services to the residents.



Uva province is divided into 2 districts:
Badulla District - 2,861 km² (4.4 %)
Moneragala District - 5,639 km² (8.6 %)

Population

Badulla District - 822,000
Moneragala District - 456,000

VISION

To be the undisputed front-runner in the provision of innovative and comprehensive healthcare in Sri Lanka by 2020

MISSION STATEMENT

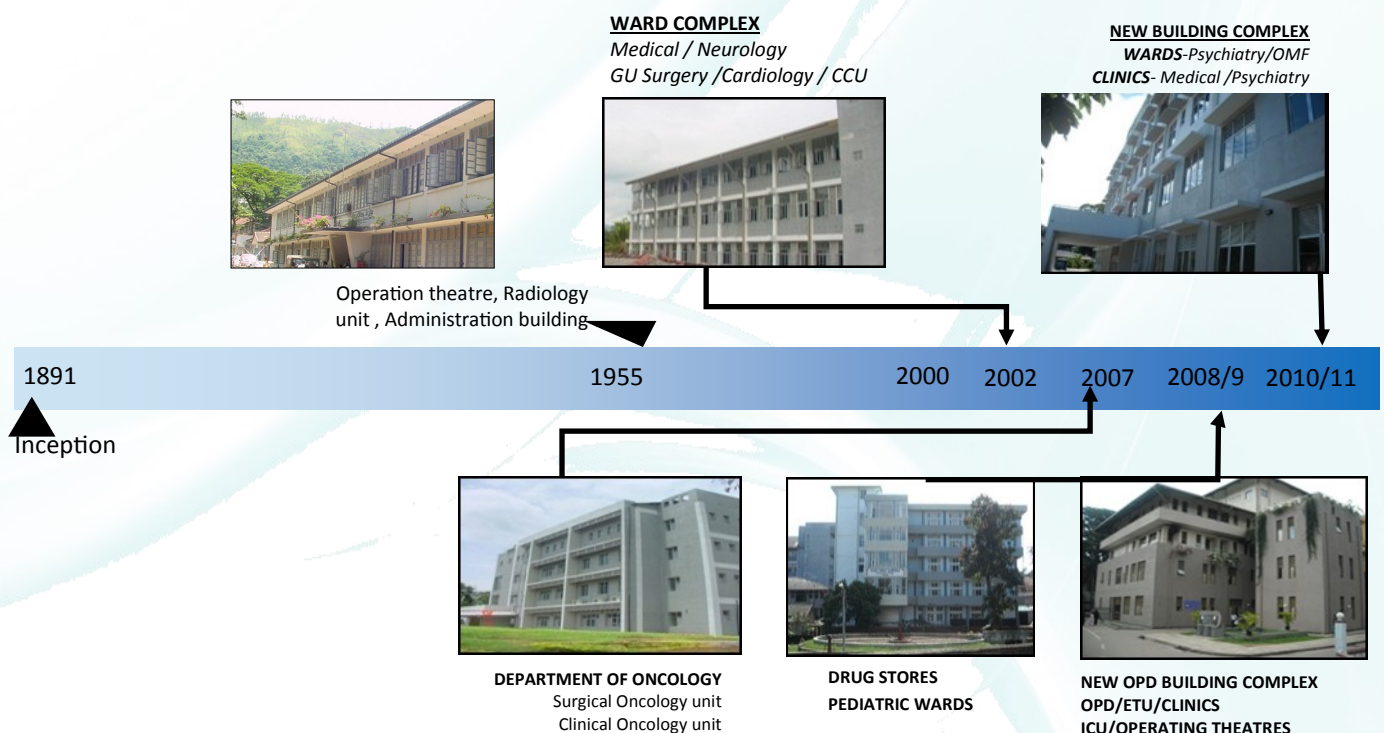
As the premier healthcare provider in Uva Wellassa, We are committed through teamwork to provide wide range of person-centered, incomparable, timely and sustainable healthcare service in a cost effective and responsible manner which contribute to the physical, psycho-logical, social and spiritual wellbeing and aspiration of the community including stakeholders with adherence to good governance practices and maximum utilization of available re-sources while maintaining echo friendly safe environment.

VALUES

Integrity , Compassion , Accountability , Respect , Excellence

HISTORY

The inception of this hospital runs back to colonial era (year 1891) and British rulers established it with facilities to treat outpatients and 40 inpatients. Original buildings are more than 120 years now but still remain sheltering to the eye and Gynecology units. Present Operation theatre, Radiology department and Out patient department were constructed in year 1955. Other buildings have been added periodically.





we are able to offer specific services tailored to the changing needs of the residents of the province with more than 36 skilled consultants. The community benefits from a wide range of easy-to-access healthcare in a single setup.

MEDICAL/SURGICAL DEPARTMENTS

Medical –General	2 units
Pediatric	2 units
Gynecology & Obstetrics	2 units
Surgical –General	2 units
Neurology /stroke care	1 unit
Neuro-surgery	1 unit
Dermatology	1 unit
Mental Health	1 unit
Oncology	2 unit
Onco-surgery	1 unit
Cardiology	1 unit
Respiratory Medicine	1 unit
Ophthalmology	1 unit
ENT	1 unit
Orthopedic	2 unit
Genito-Urinary	1 unit
Rheumatology	1 unit
Neonatology	1 unit
Thalassemia	1 unit
Anesthesia (Operating theatres)	4 OTs
Blood bank	1 unit
Judicial Medical	1 unit
Facio-Maxillary (OMF)	1 unit

DIAGNOSTIC DEPARTMENTS

Radiology	1 unit
Chemical Pathology	1 unit
Hematology	1 unit
Microbiology	1 unit
Histopathology	1 unit

OUT PATIENT CARE DEPARTMENTS

Out Patient Department	1 unit
VP-OPD Clinic	1 unit
OPD – Dental	1 unit
Orthodontic Clinic services	1 unit

EMERGENCY CARE DEPARTMENTS

Intensive Care Unit Medical	5 beds
Intensive Care Unit Surgical	4 beds
High Dependency Unit	2 beds
Intensive Care Unit Cardiac	5 beds
Emergency Treatment Unit	2 beds

OTHER CLINICAL SERVICES

Rabies PE Prophylaxis unit (RTU)
2D ECHO
Cardiac Pacing facilities
Nerve Conduction Studies & EMG
ECG, Stress ECG
Holter monitoring
EEG Services
Physiotherapy Service
Speech therapy Service
Occupational therapy Service
Audiology service
Radiotherapy Unit
Pharmacy
Orthodontic workshop
Orthopedic workshop
Lactation management unit
Diabetic centre

SUPPORT SERVICES

Office
Maintenance unit
Bio-Medical unit
Central Linen Supplies Department
Hospital Dietary service
Sanitary Services
Transport Service
Telecommunication
Medical statistics unit
Quality management unit
Infection control unit
Health education unit
Cost accounting unit
Security Service

OUTREACH SERVICES

Satellite Psychiatry clinics
Satellite Laboratory service
NCD and Diabetic screening clinics
Medical clinic at elders' home monthly
Satellite Eye clinics
Satellite ENT clinics
Thalassemia screening
Satellite Oncology clinics

STAFF INFORMATION

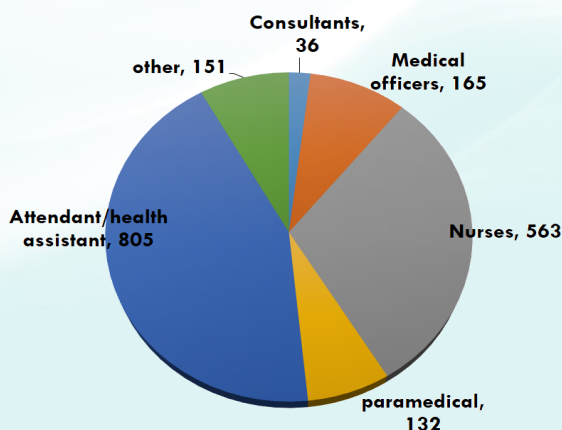


We are proud of our dedicated staff and their commitment to fulfill the needs of our local community. Our staff categories and their numbers (as at June 2013) are summarized in the following table.

Category of Staff	Approved cadre	In position
Medical Administrator (Senior Gr)	1	1
Medical Administrator (Dep. Gr)	1	0
Medical Consultant	33	34
Consultant Dental Surgeon	3	2
Medical Officer	159	165
Dental Surgeon	14	13
Accountant	1	1
Physicist	2	1
Registered Medical Officers	0	1
Administrative Officer	1	1
Matron	5	3
Special Grade Midwife	1	0
Special Grade MLT	1	0
Special Grade Pharmacist	1	1
Special Grade Radiographer	1	0
Nurse	560	563
Dental Technician	1	1
MLT	26	29
Occupational Therapist	2	2
Ophthalmic Technologist	6	5
Orthoptist	1	0
Pharmacist	28	31
Physiotherapist	12	9
Radiographer	13	8
Therapy Radiographer		4
Midwife	40	33
Speech Therapist	1	1
ECG Recordist	7	6
EEG Recordist	2	2
Public Health Lab. Technician	1	1
ICT Assistant	4	2
Psychologist	1	0
Nutritionist	1	0

Category of Staff	Approved cadre	In position
Psychiatric Social Worker	2	1
Development Assistant	6	5
Medical Record Assistant	1	1
Public Coordinating Assistant	0	0
Audiology Technician	1	1
Technical Officer (Civil)	1	0
Technical Officer (Electrical)	1	0
Public Management Assistant	31	34
Diet Stewards	3	2
House Warden	3	3
Ward Clerk	10	12
Electro Medical Technician	2	0
Health Driver	21	22
Attendant	135	135
Carpenter	1	1
Cooks	10	12
Hospital Overseer	10	8
Lab Orderly	9	9
Plant Operator	1	0
Pump Mach. Operator/Plumber	1	1
Seamstress	3	1
Telephone Operator	4	3
Lift Operator	7	7
Health Assistants (Junior)	235	379
Health Assistants (Ordinary)	403	291
Surgical Appliance Maker	0	3
Shoe Makers	0	0
K.K.S.	0	1
Total	1831	1852

Staff distribution 2013



Staff Development (2004 to 2013)





RADIOLOGY DEPARTMENT

It provides advanced radiological imaging services including general diagnostic, ultrasonic, fluoroscopic and interventional radiography under supervision of two consultant radiologists. The unit is equipped with Spiral CT scanner, ultrasound scanners, fluoroscopy etc., to take care of patients in the hospital and patients from the peripheral hospitals.

(page 20 for more information)

LABORATORY SERVICES

Our laboratory has four divisions and all four units work under the guidance of relevant consultants.

- ◇ Chemical pathology division
- ◇ Histopathology division
- ◇ Hematology division
- ◇ Microbiology division

It also helps in strengthening the laboratory facilities of peripheral hospitals through a successful satellite laboratory system.

(page 20 for more information)

MEDICO-LEGAL SERVICES

The unit renders a full range of medico legal service to the hospital and peripheries. It is headed by consultant JMO and is assisted by trained medical staff

(page 24 for more information)

BLOOD BANK SERVICE

Our Blood bank functions as the provincial blood bank and provides routine / emergency grouping and cross matching services day & night. Bleeding of healthy donors, preparation and storage of various components are among the other duties.

(page 21 for more information)

SUPPORTIVE CARDIOVASCULAR SERVICES

The service assists clinicians in diagnosis, monitoring and treatment of patients with 2D ECHO , Cardiac Pacing , ECG, Stress ECG ,Holter monitoring facilities.

Inpatient and outpatient services are offered under Consultant cardiologist's supervision.

(page 20 for more information)

PHYSIOTHERAPY UNIT

Physiotherapy unit treats indoor and outdoor patients by evaluating and designing therapeutic exercise and the application of electro-physical program under the supervision of Consultant Rheumatologist

(page 20 for more information)

RADIOTHERAPY UNIT

Radiotherapy unit offers services as a part of the multi-disciplinary approach for comprehensive management of cancer with an objective of cure or to give relief of some distressing symptoms.

It operates under the guidance of two consultant clinical oncologists. One medical physicist has also been assigned for the unit.

(page 20 for more information)

SUPPORTIVE NEUROLOGICAL SERVICES

- ◇ NCS/EMG Service
- ◇ EEG Service.

These services complement the therapeutic care of neurology/neurosurgical units.

Services function under direction of consultant neurologist.

(page 20 for more information)

OTHER SERVICES

Apart from above services , following services are available at PGH Badulla as clinical support services.

- Occupational therapy
- Speech therapy

(page 20 for more information)



QUALITY MANAGEMENT UNIT

Quality management in the health care field ensures that patients receive an excellent provision of care. By employing quality management applications to the health care, the hospital has been able to identify ways to improve internal processes that will ream more "quality" outcomes for the patients.



The unit, comprising of one medical officer (part time), one nursing officer and one Health assistant, functions under the supervision of the Director. During last few years, our hospital was able to win several awards including 'National productivity award 2010/2011 inter departmental category (Grade C)'

MEDICAL STATISTICS & INFORMATION TECHNOLOGY RESOURCE CENTRE. (TELEMEDICINE UNIT)

This unit is an aggregation of five services and that can be summarized as follows.

- ◇ Surveillance of hospital statistical data
- ◇ Human resource management activities
- ◇ Hospital cost accounting
- ◇ Information technology centre
- ◇ Hospital website, network & computer maintenance
- ◇ Designing - databases / publications / boards etc.

Unit is staffed with one medical officer, one IT assistant, two development officers and two health assistants.

INFECTION CONTROL UNIT

Infections are a major cause of morbidity and a significant cost to the health sector. Infection control unit in conjunction with the implementation of staff education programs is expected to improve outcomes for patients and reduce costs.

Unit is involved in,

- ◇ Implementation of infection control policies
- ◇ Disease notification/surveillance
- ◇ Health education programs for health staff
- ◇ Mediation of Dengue prevention activities
- ◇ Staff vaccination & Needle prick injury reporting

The unit is headed by consultant Microbiologist & is manned with two nurses and one health assistant.

HEALTH EDUCATION UNIT

Health education is considered to be an essential component in the process of preparing staff to perform their normal working roles in an more effective manner.

Health education unit identifies and develops appropriate information materials for educational purposes and conduct interactive formal and informal education sessions for both hospital staff and the patients.

Staff : one nursing officer, one health assistant.

HOSPITAL WASTE MANAGEMENT

Hospital waste must be treated correctly by following technical guidelines and using recognized technologies in order to minimize spread of infections.

By adhering to WHO guidelines, we have been able to overcome possible hazardous outcomes. The current approach employed for waste management is outlined as follows.

Waste categorization and handling at PGH Badulla

- ◆ Plastic materials (Non infective) - Orange
Collected to a box at unit level and sent to the storing place and then sent for recycling
- ◆ Infective materials - Yellow
Collected to yellow bins at unit level and sent to hospital incinerator daily for incineration.
- ◆ Sharp materials - yellow with 2 red stripes
Collected to a given box at each unit and sent to the incinerator for burning once it is two-thirds full.
- ◆ Other Non Infective waste -
Black - degradable things (leaves..
Green - food items
Collected to black bins at unit level & transported to the dumping land by municipality council once daily.
- ◆ All blood stained liquid waste / Infective water
Connected to the sewerage line and is treated in the sewerage system.
- ◆ Placenta, dead bodies, body parts
Collected and sent for burial

SANITARY SERVICE

The foundation of any healthcare system is believed to be largely dependent on the quality of sanitary care. Safe, clean & healthful environment will invariably be a blessing for the patients and staff.

Private company has been contracted for housekeeping and more than 150 workers are employed for the task.



GENERAL OFFICE

General office helps hospital administration with financial, material, service and human resources management. It is divided into three sections i.e. Establishment, administration and financial sections.

Establishment and administration divisions are under the Administrative officer's supervision and financial division is under the purview of hospital accountant. In year 2013, 34 Public management assistants had been assigned.

BIOMEDICAL UNIT

Biomedical unit contributes to the institution by

- * repairing and maintaining medical equipment
- * assisting in condemning medical equipment.

Trained technical persons from the Colombo biomedical engineering service division (one Forman & two technicians) are employed for the unit. Supervision is done by the Biomedical engineer attached to the Sirimavo Bandaranaike children hospital.

TRANSPORT SERVICE

Our hospital has an efficient transport service and which consists of,

- ◆ Ambulances : 13
02 ICU Ambulances with emergency facilities
To transport patients (urgent) to specialized hospitals
- ◆ Vans : 02
To transport patients with clinic referrals to NHSL or TH Kandy
- ◆ Lorries : 03
To transport drugs, medical gases and other supplies from MSD / BES.
- ◆ Car : 01
For official work
(to provide transport facility for consultants to attend outreach clinics etc)
- ◆ Cab
For Director's official work
- ◆ Three wheeler
Transport within hospital/office work

HOSPITAL DIET SERVICE

Thirteen cooks are involved in the task under supervision of two Diet stewardesses. Private contractor provides necessary raw materials for cooking.

TELECOMMUNICATION SERVICE

Our telephone exchange has four direct lines and extensions for all units of the hospital.

With the growth of the hospital, the need for a modern PABX system is considered and it will be installed in year 2014.

Staff: 03 telephone operators

PHARMACY SERVICE

It consists of store & dispensing drug counters

- ◇ Stores - Medical, surgical and indoor drug stores
- ◇ Dispensaries OPD Pharmacy ,
Medical clinic pharmacy,
Surgical clinic pharmacy ,
Pharmacy-Eye,ENT, Rheumatology, OMF
Dental/dermatology pharmacy
Oncology pharmacy
Mental health pharmacy

CENTRAL LINEN SUPPLIES DIVISION

This division assures uninterrupted supply of folded gauze and cotton to the entire hospital. It has been able not only to meet the increased requirement for those items created with service expansion, but also to relieve unnecessary workload on ward/unit staff.

Staff includes two nurses, seamstress and 13 health assistants.

MAINTENANCE UNIT

Unit involves in

- * minor repair works of buildings
- * maintenance of water supply system
- * Painting
- * welding work
- * repair of furniture.

It is supervised by an in-charge Public Management Assistant and a senior overseer. Staff includes 1 carpenter and 15 health assistants.



A) INFRA-STRUCTURE DEVELOPMENT - Following activities were completed during the year.

Constructions above 2 million

- Carpeting of the hospital main access road
- Renovation-intern doctors quarters (8 M)
- Rewiring and Roof repair of X ray department. (5 M)
- Extension of piped medical gas system (3 M)
- Supply and fixing of cool rooms at drug stores (4 M)
- Renovation-administration Building-ground floor (5M)
- Repair of electrical switch-boards (3 M)
- Renovation - Kitchen (3 M)
- Construction of New boundary wall for the new land at Pinnarawa (2M)
- Construction of shelter for visitors (2 M)
- Extension of boundary wall around the Consultant quarters at Puwakgodamulla (2M)

B) EQUIPMENT - Following equipment were purchased in year 2013

- ECHO Machine
- Improvements to GU Surgery services (11 million)
- Improvements to the laboratory (25 million)
- Orthopedic pneumatic drill (4.6 M)
- Endoscopy Unit (9.2 million)
- Multipara Monitors - 19 nos
- Defibrillators - 10 nos
- Infusion pumps - 48 nos
- Syringe pumps - 20 nos
- Fully automated Biochemistry Analyzer, Centrifuge ,safety cabinet , Water distiller ,Microtome
- Pulse oximeters - 10 nos
- advanced bipolar device
- ICU beds - 10 nos
- Transport trolley-emergency - 2 nos
- CTG Machine - 2 nos
- Phototherapy unit- 2 nos
- CPAP System - 4 nos
- Fetal heart detectors (Doppler) - 2 nos
- High pressure sterilizer

C) NEW SERVICES/UNITS

- Commencement of 2nd Orthopedic & 2nd Oncology unit
- Opening of operating theatre C (4 operating theatre suits)
- Monthly elders home medical clinic
- Starting Hospital Cost accounting

D OTHER SPECIAL ACTIVITIES

- Religious & cultural activities /Dengue control activities
- Capacity building : In-service programs for all staff categories
- Elders friendly concept implementation
- Way finding, signage boards and layout plan installation
- Disaster drill



A) CAPITAL EXPENDITURE

Activities	Allocation	Expenditure	% *
Building rehabilitation & improvement	37,512,887	37,379,330	100%
Plant machinery equipment Rehab. & improvement	16,194,257	15,266,864	94%
Vehicles Rehabilitation improvement	1,000,000	538,120	54%
Furniture office Equipment Acquisition	3,657,040	3,171,524	87%
Plant & Machinery – Acquisition (<u>Laboratory</u>)	24,857,463	7,809,972	31%
Plant & Machinery – Acquisition (<u>BME</u>)	24,477,659	23,708,459	97%
Plant & Machinery – Acquisition (<u>Sewerage</u>)	2,368,800	2,368,800	100%
Plant machinery equip-Rehab & improvement (<u>BME</u>)	7,200,000	5,741,058	80%
Plant machinery equip-Rehab & improvement (<u>MSD</u>)	850,000	-	0%

* %- expenditure as a percentage of allocations

B) RECURRENT EXPENDITURE

	Allocation	Expenditure	% *
Electricity	80	34.04	62%
Water		15.95	
Telephone & postal	13	1.99	15%
Laundry Services		6.11	
Janitorial Services	65	34.59	86%
Security Services		15.41	
Salary	456	396.8	87%
Extra duty/Overtime	210	287.74	137%
Other allowances	315	311.72	99%
Foods & Uniforms	38	39.06	103%
Medical Gases		15.53	
Medical supplies	63	35.69	81%
Fuel	17	14.53	85%

C) LOCAL PURCHASE (MEDICAL SUPPLIES)

		Average per month
Local purchase		4.3 million
	Drugs	0.1 Million
	Surgical	0.3 Million
	Oxygen	1.3 Million
	Reagents	2.1 Million
	Lab items	0.2 Million

D) LOCAL PURCHASE OF DRUGS

Unit	cost
Surgical ICU	89,714
Pediatric 23	71,836
Respiratory	64,309
Operation Theatre A	62,211
Neurosurgery	59,219
Medical ICU	51,933
Operation Theatre B	37,722
Pediatric 22	35,769
Neurology	31,577

Unit	cost
Gyn / Obs Ward 4	18,938
Operation Theatre Eye	14,100
Surgical A	11,334
Medical B	11,042
neonatology	10,232
Oncology	9,846
Dermatology	7,912
Medical A	6,402
Cardiology	5,580

Unit	cost
Gyn / Obs Ward 3	4,200
Surgical B	2,937
Eye	2,650
Endoscopy	2,500
ENT	2,000
Dental Unit	1,996
Hematology	1,553
Outpatient Department	800
Total (Rs)	618,312

LEADING CAUSES OF DEATH



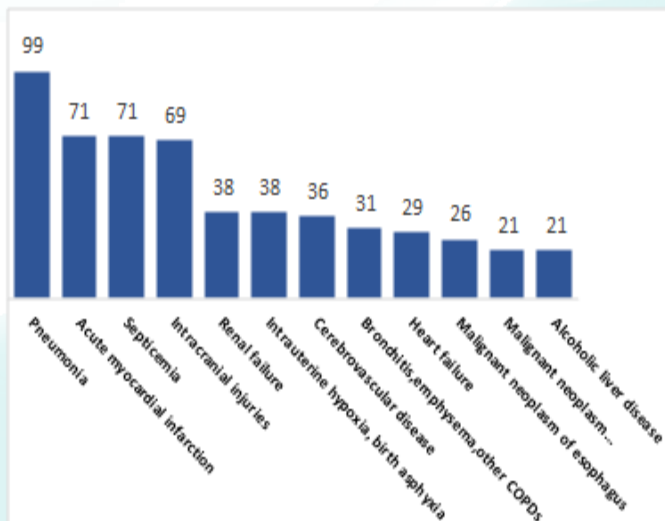
A) LEADING CAUSES OF DEATH

Cause	No	%
Pneumonia	99	10%
Acute myocardial infarction	71	7%
Septicemia	71	7%
Intracranial injuries	69	7%
Renal failure	38	4%
Intrauterine hypoxia, birth asphyxia	38	4%
Cerebrovascular disease	36	4%
Bronchitis, emphysema, other COPDs	31	3%
Heart failure	29	3%
Malignant neoplasm of esophagus	26	3%
Malignant neoplasm trachea, bronchus, lung	21	2%
Alcoholic liver disease	21	2%

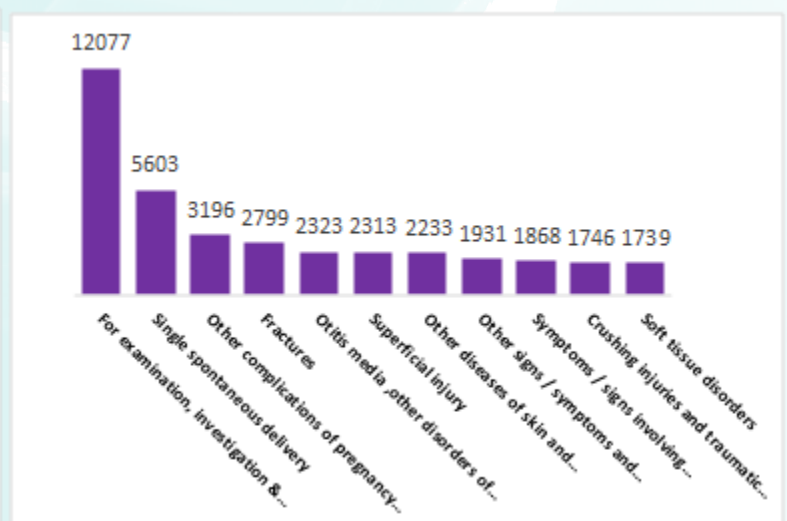
B) LEADING CAUSES OF ADMISSION

Cause	No	%
For examination, investigation & specific procedures	12077	13%
Single spontaneous delivery	5603	6%
Other complications of pregnancy and delivery	3196	3%
Fractures	2799	3%
Otitis media, other disorders of middle ear and mastoid	2323	2%
Superficial injury	2313	2%
Other diseases of skin and subcutaneous tissue	2233	2%
Other signs / symptoms and abnormal clinical findings	1931	2%
Symptoms / signs involving digestive system & abdomen	1868	2%
Crushing injuries and traumatic amputations	1746	2%
Soft tissue disorders	1739	2%
Other viral diseases (includes viral fever)	1694	2%
Other heart diseases	1663	2%

LEADING CAUSES OF DEATH



LEADING CAUSES OF ADMISSION





Statistical trends of some selected parameters over the last few years (from year 2007 to year 2013)are shown below .

	Year 2007	Year 2009	Year 2011	Year 2013
Patient Movement Data				
Beds	1300	1360	1375	1375
Admissions	99578	90372	90677	93398
Inpatient days	424001	402808	388981	404612
Bed Occupancy Rate	97	90	78	80
Average Duration of Stay	4.3	4.5	4.6	4.2
Transfers in	9105	10897	15105	15224
Transfers out	770	676	1014	583
Hospital Deaths	1037	1052	941	980
OPD patients	224512	236635	286070	290983
OPD attendance per month	18709	19720	23839	24248
Dental OPD patients	18992	19500	21818	30452
Clinic patients	328919	329617	349802	365302

Maternal/Perinatal Data

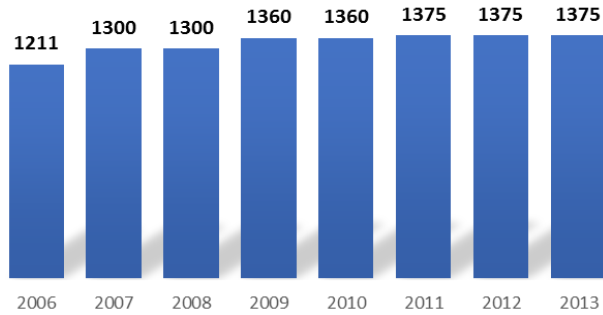
Total Number of Deliveries	7719	8195	7927	8608
Vaginal Deliveries	5126	5596	5134	5729
Deliveries by LSCS	2319	2328	2515	2650
Deliveries by Forceps	52	72	70	57
Deliveries by Vacuum	222	199	208	172
LSCS Rate (%)	30	28	32	31
Deliveries /month	643	683	661	717
Deliveries by LSCS/ month	193	194	210	221
Births	7863	8319	8025	8726
Live births	7804	8237	7951	8650
Still births	59	82	74	77
Live births < 2500 g	1984	2025	1947	2114
On admission-Still births	43	78	65	61
Neonatal deaths	83	75	61	62
Maternal deaths	5	4	1	3
Still birth rate	7.5	9.9	9.2	8.9
Neonatal mortality Rate	10.7	9	8.3	7.1
Low Birth Weight %	25	25	24	24

Surgical Data

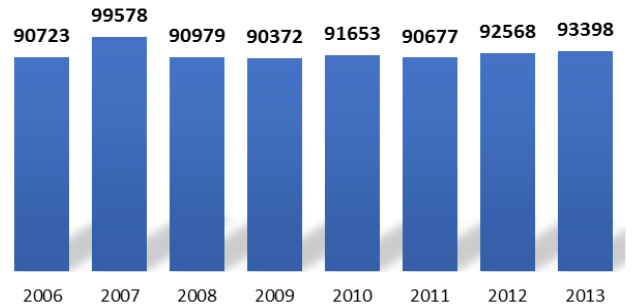
Surgeries	21850	23744	22410	24418
major Surgeries	10925	11629	12073	11941
surgeries per month	1821	1979	1868	2035
Major surgeries per month	910	969	1006	995
Endoscopic procedures	2172	2040	2746	3468



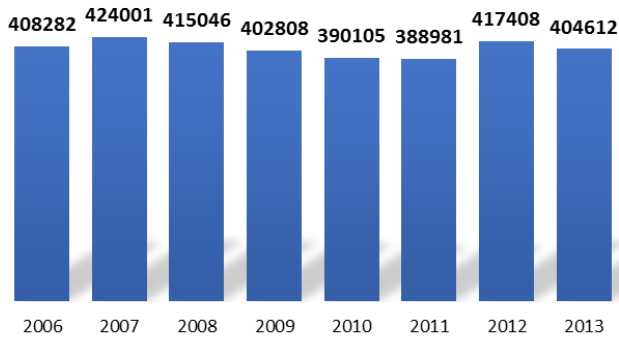
Bed Strength



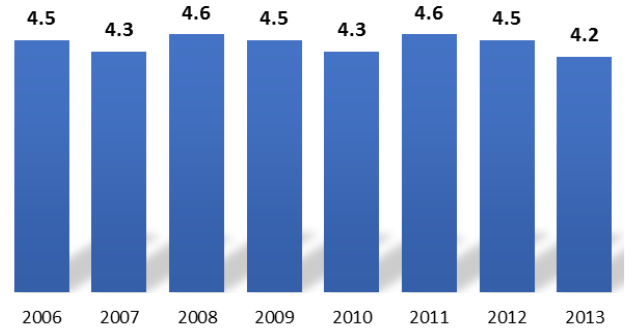
Admissions



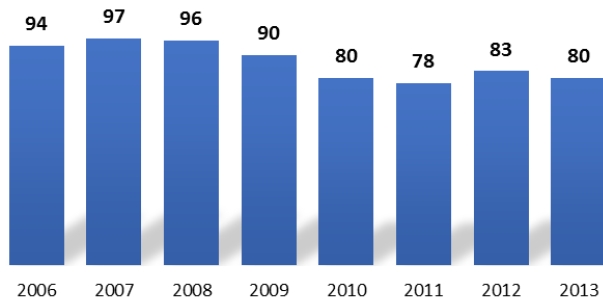
Inpatient days



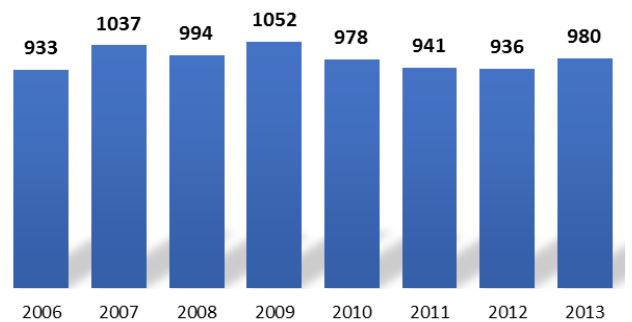
Average Duration of Stay (Days)



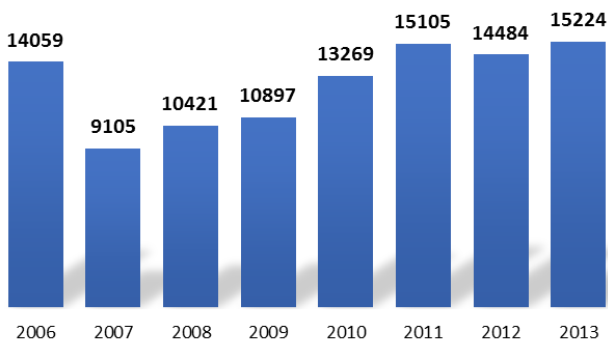
Bed Occupancy Rate



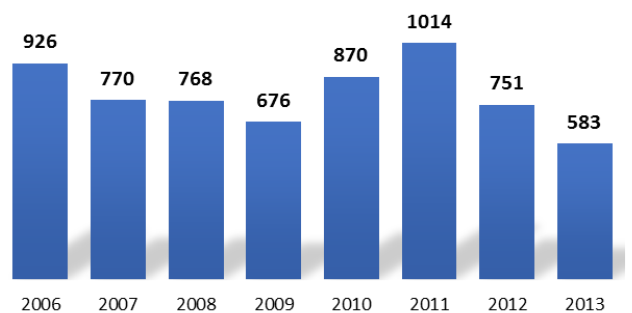
Number of Hospital Deaths



Transfers in

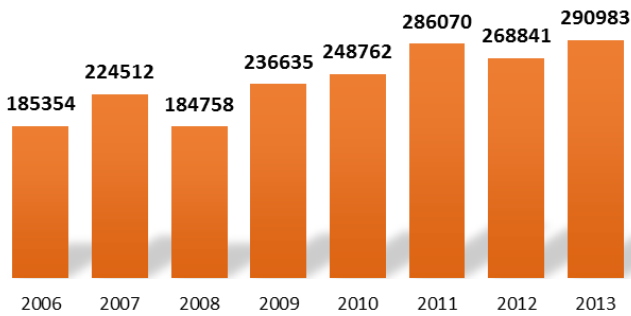


Transfers out

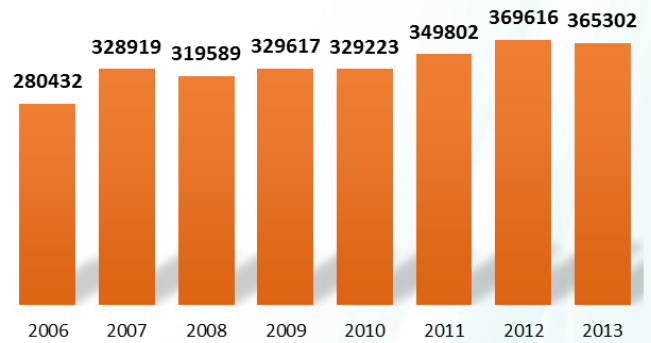




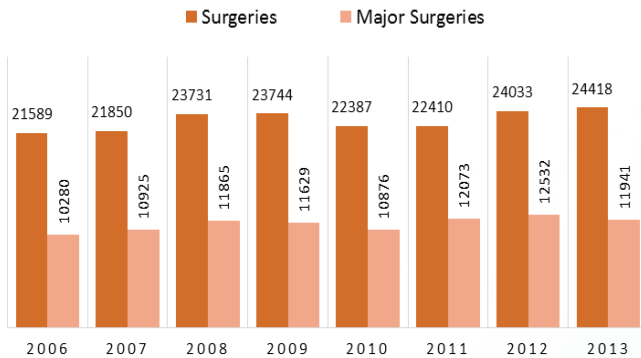
OPD patients



Clinic patients



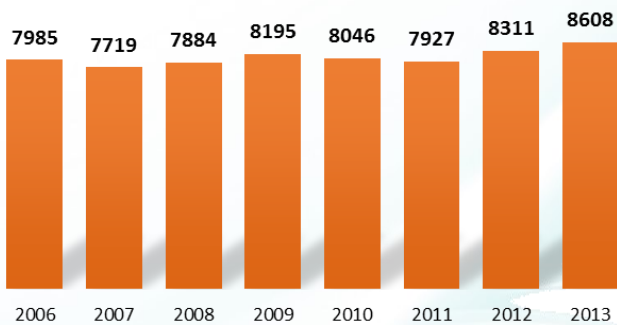
SURGERIES



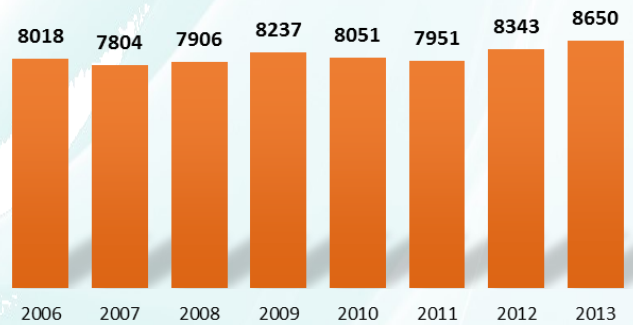
Endoscopic procedures



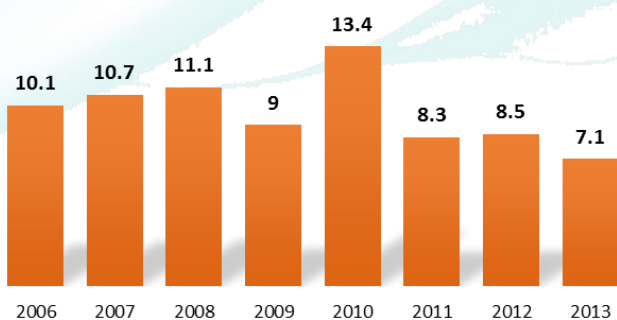
Total Number of Deliveries



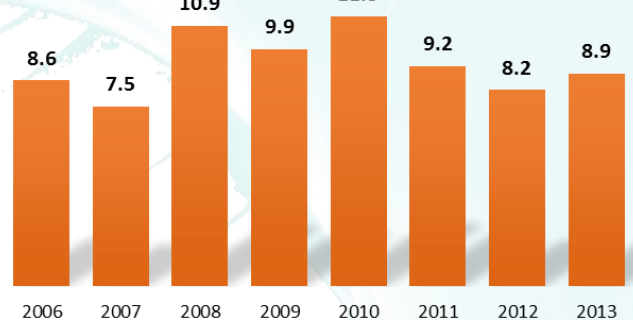
Live Births



Neonatal Mortality Rate



Still Birth Rate



WARD STATISTICS

Provincial General Hospital - Badulla
Annual Report 2013



Number of wards	40	Admissions per day (average)	256
Other units (consultant)	19	Patient Turnover Average	68
Bed strength	1375	Bed occupancy ratio	80%
Total number of Admissions	93,398	Average length of stay	4.3 days
Inpatients Days	404,612	Total number of deaths	980

Ward / Unit	Inpatients						
	Ward	Beds	Days	Admissions	Deaths	BOR	ADOS
Medical	1	55	20018	6353	113	100	3.2
Medical	2	59	19383	5699	102	90	3.4
Medical	15	48	17547	6086	94	100	2.9
Medical	16	43	14655	5942	57	93	2.5
Obstetrics	3	92	28814	5021	0	86	5.7
Obstetrics	4	93	31954	6279	0	94	5.1
Gynecology A/B	7	40	16832	5083	0	115	3.3
Surgical Casualty - (Male)	8	51	21101	13028	20	113	1.6
Post Operative (Male)	9	51	13793	3066	10	74	4.5
Post Operative (Female)	10	52	16437	5646	17	87	2.9
Post Operative (Male)	11	49	15303	2384	23	86	6.4
Post Op./Casualty (Fem)	12	50	19496	5332	19	107	3.7
Pediatric	22	61	12949	4089	2	58	3.2
Pediatric	23	60	10357	3749	5	47	2.8
Thalassemia	24	21	2199	742	0	29	3.0
Priest	14	12	1347	280	0	31	4.8
Cardiology / CCU	18	29	4729	1502	47	45	3.1
Neurology / Rheumatology	17	36	6175	1045	4	47	5.9
Respiratory Medicine-(Fem)	28	13	2319	350	3	49	6.6
Respiratory Medicine-(Male)	29	25	4990	734	12	55	6.8
Dermatology	30	25	3125	622	0	34	5.0
Mental Health	38/39	36	12095	1386	2	92	8.7
Oncology (Male/Female)	32/33	40	16162	2443	62	111	6.6
Oncology (Male/Female)	34/35	35	16384	2017	68	128	8.1
Eye	5/6	39	7395	3451	0	52	2.1
ENT	26/27	48	7880	4477	0	45	1.8
Neuro-surgery	25	30	7261	1460	47	66	5.0
Orthopedic-(Male)	20	32	9763	370	2	84	26.4
Orthopedic-(Female)	21	26	8024	463	2	85	17.3
GU Surgery	19	29	6379	1839	2	60	3.5
Onco Surgery (M/F)	36/37	29	7098	1504	18	67	4.7
OMF Surgery	40/41	22	6224	1077	2	78	5.8
Neonatology Unit		30	13154	1712	95	120	7.7
Surgical ICU /HDU		7	2038	611	84	80	3.3
Medical ICU		4	1232	246	68	84	5.0

BOR: Bed occupancy ratio

ADOS : Average duration of stay

CLINIC /OPD STATISTICS

Provincial General Hospital - Badulla
Annual Report 2013



Number of clinic visits	365,302
Clinic patients per day (302 days)	1209
Avg. number of patients per clinic	100

OPD visits	290,983
OPD patients per day	901
attendance per day per Medical officer	90

CLINIC	No of Clinics	1st Visits	Subsequent Visits	Total Visits	Average per clinic
Medical	201	1917	71612	73529	366
Medical A	104	1393	39289	40682	391
Medical B	97	524	32323	32847	339
Diabetic	52	186	16249	16435	316
Diabetic A	25	23	8256	8279	331
Diabetic B	24	163	7993	8156	340
Diabetic Center	26	239	1960	2199	85
Surgical	198	8388	17192	25580	129
Surgical A	102	5072	10242	15314	150
Surgical B	96	3316	6950	10266	107
Pediatric	148	1009	9634	10643	72
Pediatric -22	51	514	5824	6338	124
Pediatric -23	97	495	3810	4305	44
Growth & Development	96	0	4643	4643	48
Antenatal	111	6274	9050	15324	138
Antenatal 3	51	3158	5336	8494	167
Antenatal 4	60	3116	3714	6830	114
Gynecology	100	3315	3634	6949	69
Gynecology 7-A	50	1714	1733	3447	69
Gynecology 7-B	50	1601	1901	3502	70
Eye	302	15132	28036	43168	143
ENT Surgery	143	6191	9217	15408	108
Orthopedic A	51	3184	6302	9486	186
Orthopedic B	40	1206	1730	2936	73
Neuro-Surgery	48	1082	3296	4378	91
Onco-surgery	103	677	4031	4708	46
GU Surgery	50	1180	3954	5134	103
OMF Surgery.	214	2437	5173	7610	36
Rheumatology	289	1164	15253	16417	57
Neurology	132	2014	11253	13267	101
Psychiatry	190	1041	14180	15221	80
Dermatology	197	4761	16204	20965	106
Oncology	102	1526	14392	15918	156
Cardiology	104	0	9329	9329	90
Cardiology Ref..	49	1061	0	1061	22
Heart failure	50	0	904	904	18
Rehab. cardiac	37	118	215	333	9
Post MI	52	0	840	840	16
VP (OPD)	287	926	14571	15497	54
Orthodontic	290	435	6985	7420	26

OPD	1st Visits	Subsequent Visits	Total Visits	Average per day
	278,961	12,022	290,983	901

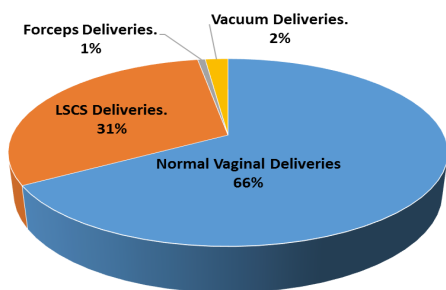


A) DELIVERIES & BIRTHS

Deliveries	Total	per month
Total Num. of Deliveries	8608	717
Normal Vaginal Deliveries	5729	477
LSCS Deliveries.	2650	221
Forceps Deliveries.	57	5
Vacuum Deliveries.	172	14
LSCS rate (%)	31%	31%
Single Deliveries	8495	708
Twin Deliveries	108	9
Triplets Deliveries	5	0

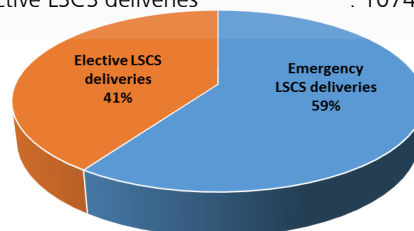
Births	Total	per month
Total Num. of Births	8726	727
Live Births	8650	721
<2500g	2114	176
>2500g	6536	545
Low Birth Weight rate %	24	24
Total Num. of Still Births	77	6
IUD on admission	61	5
IUD while in ward	16	1
Still Birth rate (%)	8.9	8.9

Mode of Delivery



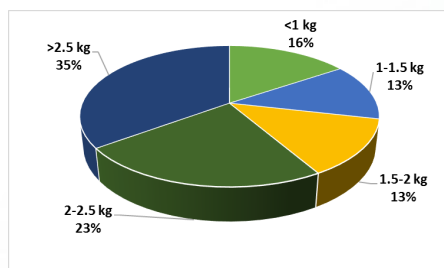
LSCS deliveries Analysis

Total number of LSCS deliveries : 2650
 Emergency LSCS deliveries : 1576 (59%)
 Elective LSCS deliveries : 1074 (41%)

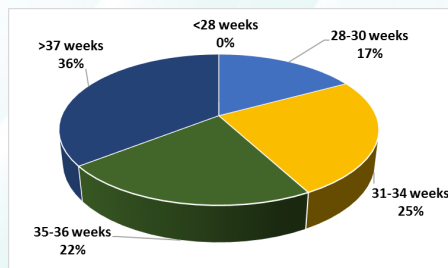


B) STILL BIRTH ANALYSIS

A) By Birth weight



B) By POA



C) Analysis of still births - FHS Present on admission

- ◆ Total number : 16
- ◆ Causes

Congenital abnormalities	: 03	Placental Abruption	: 02
PIH and IUGR	: 04	PIH	: 03
Tight cord round	: 01	GDM	: 01

C) MATERNAL DEATHS

Number of Cases - 3
 Case 1: Myocarditis
 Case 2: Postpartum Hemorrhage
 Case 3: Pending

D) OTHER DATA

Number of LRTs done : 693
 Number of Abortions : 53



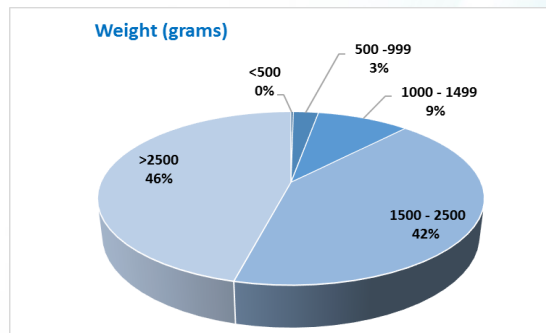
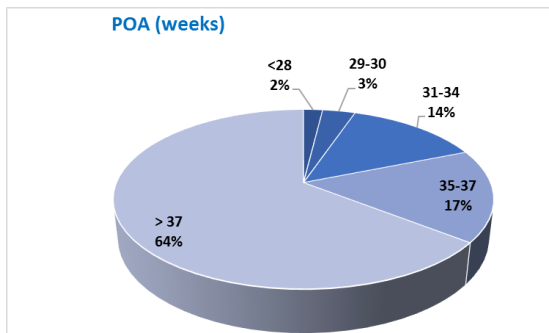
Total number of admissions	1,238
Number of ventilated babies	127
Number of surfactant given babies	37

Neonatal mortality rate (PGHB)	7.1 per 1000 live births
Neonatal mortality rate (overall)	9.9 per 1000 live births
Early neonatal mortality rate	5.2 per 1000 live births

A) ADMISSIONS BY POA / WEIGHT

POA (weeks)	Number
<28	24
29-30	41
31-34	169
35-37	206
> 37	798

Weight (grams)	Number
<500	3
500 -999	31
1000 - 1499	114
1500 - 2500	520
>2500	570



B) ADMISSIONS BY DIAGNOSIS

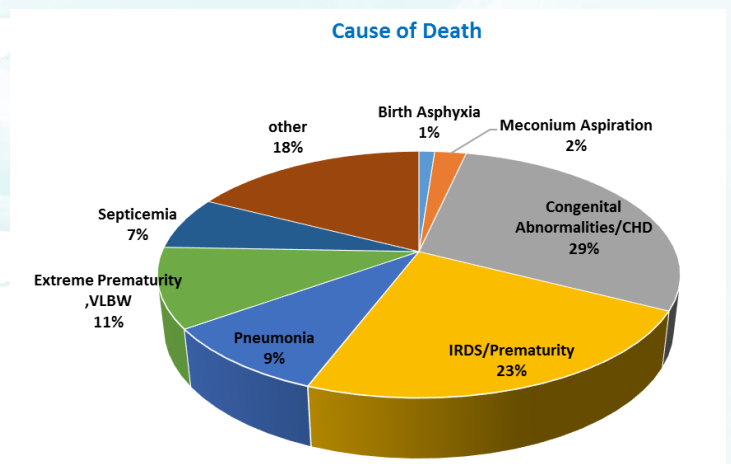
Diagnosis /condition	No	%
Prematurity and Low Birth Weight	234	18.9%
Jaundice	217	17.5%
For Observation	191	15.4%
Prophylactic IV Antibiotic	139	11.2%
Other	90	7.3%
Feeding Support	55	4.4%
Congenital Pneumonia	46	3.7%
Septicemia	37	3.0%
Congenital Abnormalities	36	2.9%
For Investigation	35	2.8%
Suspected Sepsis	34	2.7%

Diagnosis /condition	No	%
Term IUGR	32	2.6%
Observation for Grunting	32	2.6%
Neonatal Convulsion	21	1.7%
Meconium Aspiration	12	1.0%
CHD	9	0.7%
IRDS	6	0.5%
For Surgical Care	6	0.5%
For ventilator care	3	0.2%
Vomiting	2	0.2%
Birth Asphyxia	1	0.1%

C) NEONATAL DEATHS

Neonatal Deaths	No
Total(PGHB+Transfers)	86
Neonatal Deaths (PGHB)	62
Early Neonatal Deaths	45
Late Neonatal Deaths	17

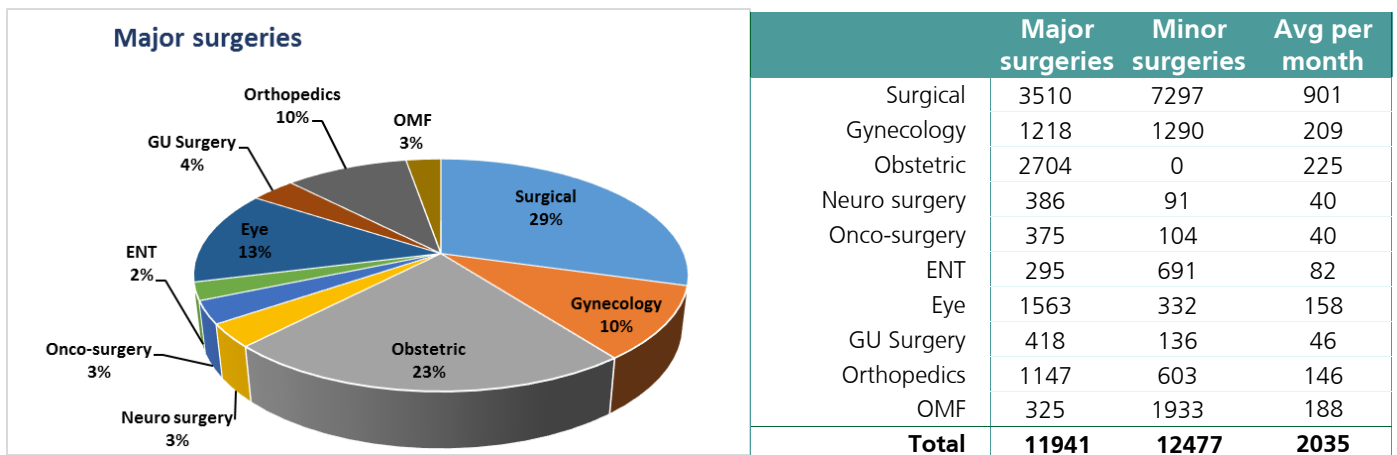
Causes of Deaths	No
Birth Asphyxia	1
Meconium Aspiration	2
Congenital Abnormalities/CHD	25
IRDS/Prematurity	20
Pneumonia	8
Extreme Prematurity ,VLBW	9
Septicemia	6
other	15



SURGICAL STATISTICS



A) SURGERIES	Major			Intermediate			Minor			Total
	Routine	Casualty	Total	Routine	Casualty	Total	Routine	Casualty	Total	
Surgical A	448	464	912	25	856	881	58	3565	3623	5416
Surgical B	443	504	947	47	723	770	59	3615	3674	5391
Gynecology 03	269	44	313	64	105	169	137	514	651	1133
Obstetric 03	91	1023	1114	0	0	0	0	0	0	1114
Gynecology 04	325	68	393	115	228	343	112	527	639	1375
Obstetric 04	111	1476	1587	0	3	0	0	0	0	1590
Neuro surgery	221	70	291	84	11	95	68	23	91	477
Onco-surgery	190	21	211	150	14	164	95	9	104	479
ENT	113	15	128	110	57	167	393	298	691	986
Eye	1288	8	1296	261	6	267	308	24	332	1895
GU Surgery	154	6	160	245	13	258	123	13	136	554
Orthopedics	548	12	560	428	159	587	445	158	603	1750
OMF	154	2	156	165	4	169	600	1333	1933	2258
Total	4355	3713	8068	1694	2179	3873	2398	10079	12477	24418



B) ENDOSCOPIES	Surgical A	Surgical B	Onco-Surgery	GU Surgery	ENT	Respir. Medicine	Gyn.Obs wd-3	Gyn.Obs wd-4	Total
Upper GI Endoscopy	629	653	210	0	0	0	0	0	1492
Lower GI Endoscopy	152	136	89	0	0	0	0	0	377
Esophagoscopy	1	0	0	0	49	0	0	0	50
FOL	0	7	0	0	570	0	0	0	577
Laparoscopy	5	2	24	3	0	0	43	74	151
Hysteroscopy	0	0	0	0	0	0	0	0	0
Cystoscopy	0	0	0	250	0	0	0	0	250
Bronchoscopy	0	0	0	0	0	365	0	0	365
Thoracoscopy	0	0	0	0	0	84	0	0	84
Micro Laryngoscopy	0	0	0	0	2	0	0	0	2
Direct Laryngoscopy	0	0	0	0	120	0	0	0	120
Nasal Endoscopy	0	0	0	0	23	0	0	0	23
Total	798	759	328	253	764	449	43	74	3468



A) RADIOLOGICAL INVESTIGATIONS

	Total	Avg. per month
US Scan	17,121	1,427
US guided biopsy	164	14
CT Scan	15,457	1,288
CT guided biopsy	49	4
Normal X - ray	88,315	7,360
Barium Swallow	137	11
Barium Meal	38	3
Barium Enema	132	11
IVP	362	30
Angiogram/Fin gram	52	4
HSG	66	6
MCUG	62	5
Myelogram	5	0
Sinogram / PTC	19	2
RPG	15	1
PCW	32	3
Total	122,026	10,169

C) CARDIOVASCULAR INVESTIGATIONS

		Total	Avg. per month
ECHO	outdoor patients	7,093	591
	indoor patients	4,384	365
	TOE	56	5
	patients (total)	11,497	958
Normal ECG	indoor patients	42,296	3,525
	outdoor patients	14,593	1,216
	patients (total)	56,889	4,741
Exercise ECG	indoor patients	369	31
	outdoor patients	254	21
	patients (total)	623	52
Halter	no of Patients	254	21

D) NEUROLOGICAL INVESTIGATIONS

		Total	Avg. per month
EMG/NCS	no of Patients	1,023	85
EEG	outdoor patients	1,249	104
	indoor patients	1,143	95
	patients (total)	2,392	199

B) LABORATORY INVESTIGATIONS

	Total	Avg. per month
Hematology	168860	14072
General Hematology	167612	13968
Special Hematology	1248	104
Microbiology	40092	3341
Bacteriology	22905	1909
Serology	17187	1432
Histology	19776	1648
Histology Specimen	9444	787
FNAC	2077	173
PAP	7257	605
Fluids	779	65
Special Stains	94	8
Post Mortem	125	10
Chemical Pathology	378854	31571
Biochemistry	339901	28325
UFR,etc	30580	2548
Aspirated fluid, B HCG,	1001	83
TSH	4644	387
T4	1038	87
Ferritin	962	80
CA 125	120	10
Dengue - Antibody	608	51
OPD Laboratory	113931	9494
On-call Investigations	143276	11940
TOTAL	864789	72066
Specimens to MRI	428	36
Specimens to Kandy	90	8

E) RHEUMATOLOGICAL

		Total	Avg. per month
Occupational Therapy	New Patients	623	52
	indoor patients	3,571	298
	outdoor patients	758	63
	patients (total)	4,329	361
Physiotherapy	new Pts. Regis.	6,164	514
	indoor patients	17,142	1,429
	outdoor patients	13,113	1,093
	Treatment Units	91,282	7,607

F) ONCOLOGICAL

		Total	Avg. per month
Chemotherapy	Number of patients	3,342	279
	Number of doses	13,085	1,090
Radiotherapy	Number of Patients	828	69
	Number of Fields	8,421	702

E) SPEECH THERAPY

	Total	Avg. per month
Number of patients	118	118 per month



A) DENTAL STATISTICS

Treatment		No	
Emergency	Extractions	Deciduous	722
		Caries	6444
	Permanent	Periodontal	1114
		other	54
	D.A.A	Treated	2298
	Fractures	Treated	5
	Post-op	Hemorrhage	7
Infections		93	
Oral Medicine	Premalignant	Leukoplakia	16
		other	1
	Oral carcinoma		4
	Candida albicans		0
Routine	Restoration	Temporary	3800
		Permanent	4313
	Permanent	Amalgam	4313
		Composite	2433
	Advanced conservation		594
	Periodontal treatment	Scaling	1707
	Surgery		34

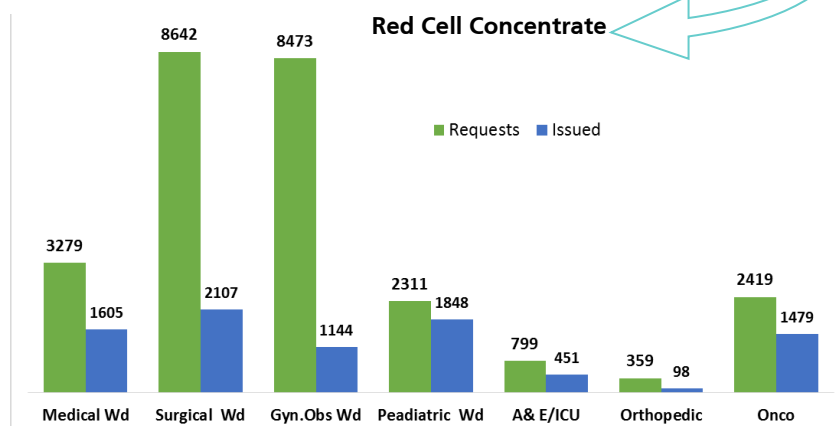
Treatment		No	
Surgery	Incision & drainage	30	
	Impacted	276	
	Apicectomy	0	
	Fractures	1	
	Biopsies	9	
	other	5	
	indoor	8	
	All referrals	1410	
	Miscellaneous	4317	
	Prevention	Individual	740
		Community	17

Total visits	28,740
First visit	24434
Patients per day per dental surgeon	16
Extractions	8334
Restorations	11140
Ratio (extractions/restorations)	75%

B) BLOOD BANK PERFORMANCE

Issued amounts	Red Cell	FFP	Platelet	Cryo	CSP	Buffy
Medical Wards	1605	576	222	171	63	0
Surgical Wards	2107	1583	265	96	116	0
Gyn. & Obs. Wards	1144	272	218	55	2	0
Pediatric Wards	1848	446	244	202	92	0
ICU/ ETU	451	1007	678	112	18	0
Orthopedic Units	98	27	15	8	0	0
Onco Units	1479	618	1284	7	0	54
Total	8753	4539	2926	651	291	54

Ratio (Issue/Requests)*100	
Red Cell Concentrate	61%
FFP	100%
Platelet	100%
Cryo	100%





A) DISEASE NOTIFICATION

Disease	Cases	Deaths
Dengue fever	469	0
Dysentery	58	0
Leptospirosis	16	1
Whooping cough	0	0
Tuberculosis	80	6
Typhus fever	38	0
Hepatitis	30	0
Meningitis	78	7
Encephalitis	16	4
Typhoid Fever	11	0
Simple Continuous Fever	6	0
AFP	9	0
Rabies	0	0
Malaria	0	0
Food Poisoning	14	0
Chicken pox	78	0
Mumps	4	0
Total	908	18

B) RABIES POST EXPOSURE PROPHYLAXIS

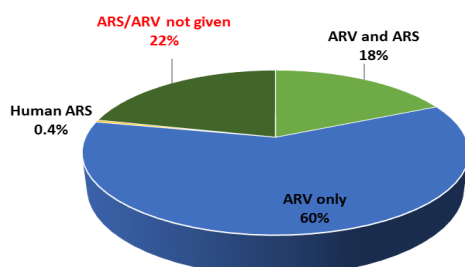
	Year total	Avg. per month
Attendance to RTU	7,740	645
ARV and ARS	1,413	118
ARV		
2 site	3,456	288
4 site	1,183	99
Total	4,639	387
Total	6,052	504

Referral for Human Rabies Antibody

	31	3
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% ARV given (of total attendance)	78% (6052)	78% (504)
% ARS given (of ARV cohort)	23% (1413)	23% (118)
% Human ARS given (of ARS cohort)	2% (31)	2% (3)

% Total attendance



C) COST ACCOUNTING

Specialty	Cost Rs (/patient/day)
Inpatient data	
Medical	2,120
Obstetrics	2,389
Gynecology	2,397
Surgery	2,548
Pediatric	2,494
Neonatology	2,861
Priest	4,071
Neurology	4,526
Cardiology	5,527
Chest	3,774
Dermatology	3,964
Oncology	2,144
Mental Health	1,865
GU Surgery	2,976
Orthopedic	1,993
Neurosurgery	4,542
ENT	4,022
Oncosurgery	3,427
OMF	5,536
Medical ICU	41,894
Surgical ICU	23,093
Out-patient data	
Cost per OPD patient	392
Cost per clinic patient	729

TRANSFERS & CLINIC REFERRALS



Transfers Out

: 0.6 % of total admissions
: 29% transfers were weekend transfers

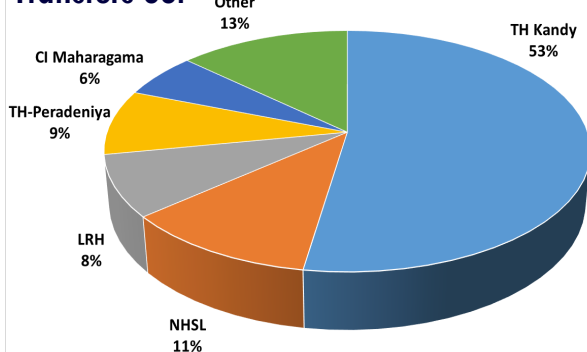
A) Transfers out

	TH Kandy	NHSL	LRH	TH-Perad	CI Mahara	Other	Total
Medical (1,2)	40	6	0	2	0	8	56
Obstetrics (3)	1	0	0	1	1	1	4
Obstetrics (4)	2	0	0	0	0	2	4
Eye ward 5,6	32	1	1	0	0	5	39
Gynecology -7	0	1	0	0	2	3	6
Surgical Casualty 8	51	11	0	2	0	3	67
Surgical Post-Op 9	1	3	0	1	0	0	5
Surgical Post-Op 10	14	5	0	4	0	0	23
Surgical Post-Op 11	3	2	0	2	0	0	7
Surgical Post-Op 12	5	1	0	3	0	0	9
Medical wd 15,16	65	6	0	0	1	8	80
Neurology 17	11	5	1	0	0	2	19
GU Surgery 19	10	1	0	0	0	1	12
Orthopedic (20,21)	0	1	0	1	0	5	7
Pediatric 22	9	0	30	11	1	0	51
Pediatric 23	1	0	5	7	6	1	20
Thalassemia 24	2	0	0	0	0	0	2
Neurosurgery 25	18	16	0	0	0	3	37
ENT wd 26,27	13	2	0	1	0	2	18
Resp. med wd 28,29	1	0	0	0	0	3	4
Dermatology 30	0	0	0	0	0	0	0
Oncology 32-35	9	1	0	1	22	9	42
Oncosurgery 36-37	0	0	0	0	0	3	3
Mental Health 38,39	3	2	0	0	0	7	12
OMF (40/41)	0	0	0	2	0	0	2
Neonatology	7	0	10	12	2	4	35
Cardiology	4	1	0	0	0	0	5
Surg. & Medical ICU	4	1	1	1	0	7	14
Total	306	66	48	51	35	77	583

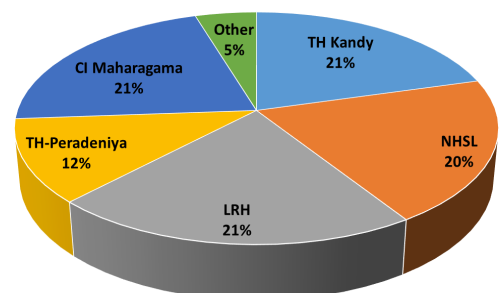
B) Clinic Referrals

	TH Kandy	NHSL	LRH	TH-Perad	CI Mahara	Other	Total
Medical (1,2)	7	0	0	0	0	0	7
Obstetrics (3)	0	0	0	0	0	0	0
Obstetrics (4)	1	0	0	1	0	0	2
Eye ward 5,6	6	0	0	0	0	2	8
Gynecology -7	0	0	0	0	0	0	0
Surgical Casualty 8	9	1	0	4	0	0	14
Surgical Post-Op 9	1	4	0	0	0	0	5
Surgical Post-Op 10	5	0	0	1	0	0	6
Surgical Post-Op 11	5	2	0	9	0	0	16
Surgical Post-Op 12	1	2	0	2	0	0	5
Medical wd 15,16	2	0	0	0	0	0	2
Neurology 17	49	0	0	9	0	0	58
GU Surgery 19	3	1	0	0	0	0	4
Orthopedic (20,21)	2	20	1	3	0	23	49
Pediatric 22	0	2	116	8	0	0	126
Pediatric 23	0	0	11	4	2	0	17
Thalassemia 24	11	0	0	0	0	0	11
Neurosurgery 25	5	15	0	17	2	0	39
ENT wd 26,27	21	1	0	16	0	0	38
Resp. med wd 28,29	3	0	0	0	1	6	10
Dermatology 30	0	0	0	0	0	0	0
Oncology 32-35	1	80	0	0	109	0	190
Oncosurgery 36-37	0	4	0	0	24	0	28
Mental Health 38,39	0	0	0	0	1	0	1
OMF (40/41)	0	0	0	0	0	0	0
Neonatology	2	0	12	2	1	0	17
Cardiology	1	0	0	0	0	0	1
Surg. & Medical ICU	0	0	0	0	0	0	0
Total	135	132	140	76	140	31	654

Transfers out



Clinic Referrals



TRANSFERS IN ; MRI REFERRALS MEDICO-LEGAL DATA



A) Transfers in (from Peripheral Hospitals)

	Transfers-in	Percentage
Walimada	1843	11.9%
Diyathalawa	1015	6.5%
Monaragala	1257	8.1%
Mahiyanganaya	464	3.0%
Ampara	18	0.1%
District/Rural /Other Hospitals		
Passara	1838	11.8%
Meegahakiula	854	5.5%
Lunugala	745	4.8%
Atampitiya	570	3.7%
Galauda	886	5.7%
Demodara	561	3.6%
Matigahathanne	549	3.5%
Kandeketiya	453	2.9%
Uwaparanagama	609	3.9%
Springvalley	480	3.1%
Kandededara	475	3.1%
Roberiya	158	1.0%
Bibile	282	1.8%
Wawegama	230	1.5%
Hopton	370	2.4%
Kahataruppa	131	0.8%
Nadungamuwa	119	0.8%
Bandarawela	208	1.3%
Kandegolla	274	1.8%
Wallawaya	106	0.7%
Koslanda	66	0.4%
Bogahakumbura	51	0.3%
others	912	5.9%
Total	15524	100.0%

B) MRI Referrals

	NHSL	TH Pera	TH Kandy	Total
ward 17	2	63	2	67
ward 25	65	66	5	136
ward 01	0	1	0	1
ward 34	1	1	0	2
ward 21	1	6	0	7
ward 35	3	0	0	3
ward 20	2	5	0	7
ward 15	0	1	0	1
ward 26	1	4	0	5
ward 33	1	0	0	1
ward 29	2	0	0	2
ward 27	0	1	0	1
Total	78	148	7	233

C) Medico-legal Statistics

Post Mortems by Manner of Death

Manner of Death	No. of Post Mortems
Natural	185
Sudden deaths	67
Suicide	43
Accidents	75
Murder	17
Maternal	6
Poisoning	25
Homicide	7
Under Investigation	71
Other	26
Total	515

MLEF Category

MLEF Category	No of MLEFs
Assault	1120
Accidents (Road Traffic)	641
Stab Injuries	24
Child Abuse	54
Rape	95
Alcohol Abuse	156
Abortion	2
Burns	8
Psychotic	10
Murder	1
Accuse of Rape	17
Trap Gun Injuries	22
Dog Bite	1
Drug Allergy	8
Other	97
Total	2256



Annual Report

year 2013

Provincial General Hospital Badulla

WARD COMPLEX
Medical / Neurology
GU Surgery / Cardiology / CCU

NEW BUILDING COMPLEX
WARDS - Psychiatry / OMF
CLINICS - Medical / Psychiatry



Operation theatre, Radiology unit,
Administration building



1891

Inception

1955

2000

2002

2007

2008/9

2010/11



DEPARTMENT OF ONCOLOGY
Surgical Oncology unit
Clinical Oncology unit



**DRUG STORES
PEDIATRIC WARDS**



NEW OPD BUILDING COMPLEX
OPD/ETU/CLINICS
ICU/OPERATING THEATRES