

Annual report 2017

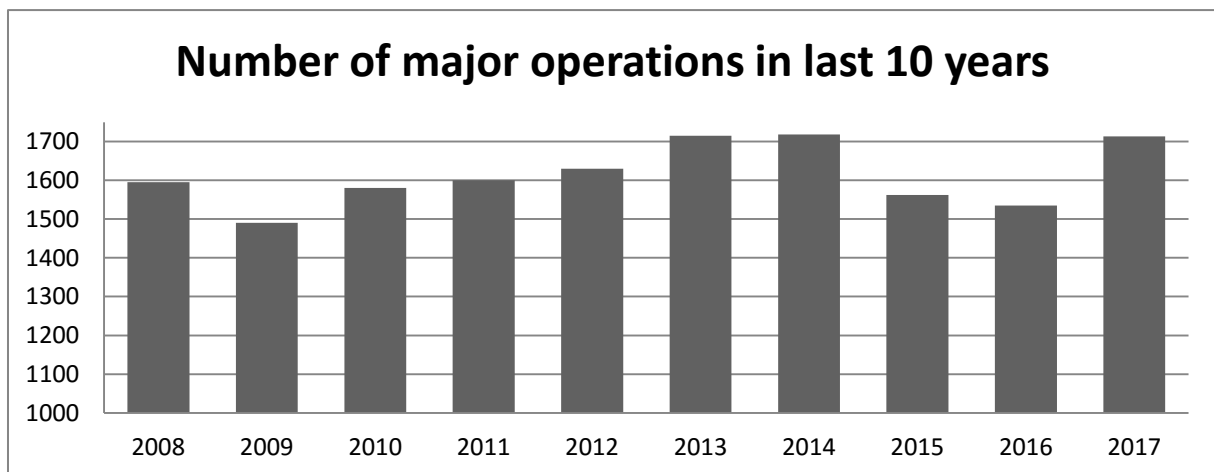
SURGICAL DEPARTMENT

(Including all surgical procedures)

Nyangao Hospital's Surgical Department is over the years steadily directed by Specialist Surgeon Dr. Ryszard Jankiewicz assisted by Dr. Andreas Gai, Dr. Inge de Grauw, Dr. Vincent Kwai and other rotating doctors, performing operations at major, and minor theatres.

In 2017 the total number of operated patients was **1638**, - **234** patients more than year before and the total number of major operations reached **1713**, - **178** more than in previous year. The difference between number of operated patients and number of major operations results from some multiple procedures.

Table 1.



Thanks to continuation support by Polish Aid was possible to offer two months practice in Surgery Department for doctors from neighboring hospitals from Lindi and Mtwara Regions and to organize for them two days Workshop on "Surgery In Low Resource Settings With Special Emphasis On Trauma" which took place on 26 - 27 October. There participate doctors from Hospitals Mtwara, Lindi, Ndanda, Nyangao, Ruangwa, Kilwa Kipatimu, Kilwa Kinyonga, Tandahimba, Mangaka, Nachingwea, Newala, Mnero, Liwale and from Health Centres Kitomanga and Rondo.

Nyangao Hospital is only one in Lindi Region offering most of specialist operations from general surgery, orthopedics, urology and practically is acting as referral hospital for mentioned specializations.

Table 2. Number of admissions to Surgical Ward

Ward	No. of beds	No of admissions
Male (1B)	30	1229
Female (2B)	16	453
Children (3B)	8	307
Private surg.	2-3	101
TOTAL	56-57	2090

There was increase the total number of admissions by 30,9% comparing to 2016.

Table 3. The ratio of different types of operations.

Type of operations	Number	Rate in %
Gyn. /Obst.	878	51,3
General Surgery	492	28,7
Orthopedics	243	14,2
Urology	100	5,8

Emergency procedures accounted for approx. 1/3 of total procedures.

Table 4. Top five most common operations in 2017.

Type of operation	No of cases
Cesarean section	489
Abdominal hysterectomy	179
Herniorrhaphy (various type)	146
Adnexectomy/salpingectomy/cystectomy	94
Excision various superficial tumours, biopsy	50

Table 5. Number of cesarean sections in last 8 years

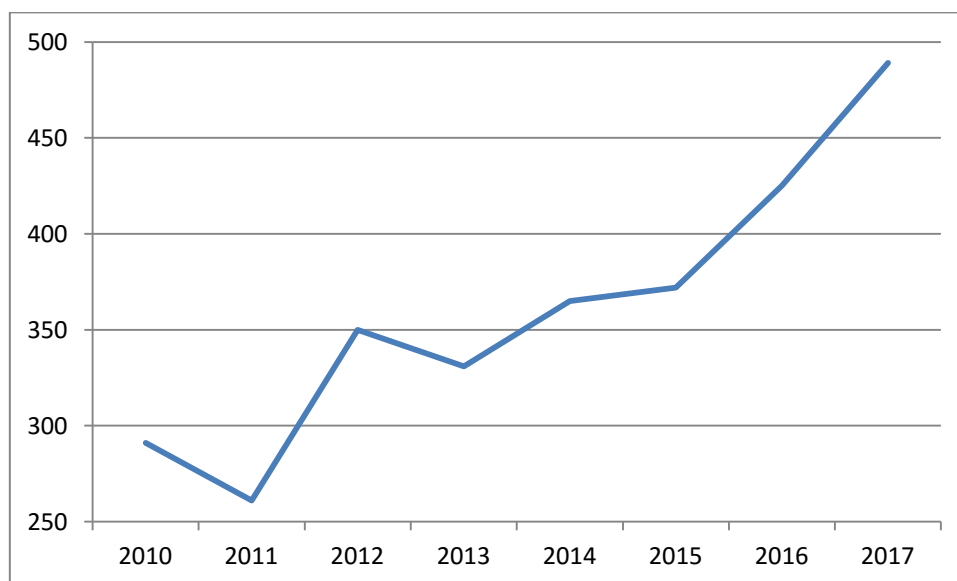


Table 6. Number of VVF operations in recent 13 years:

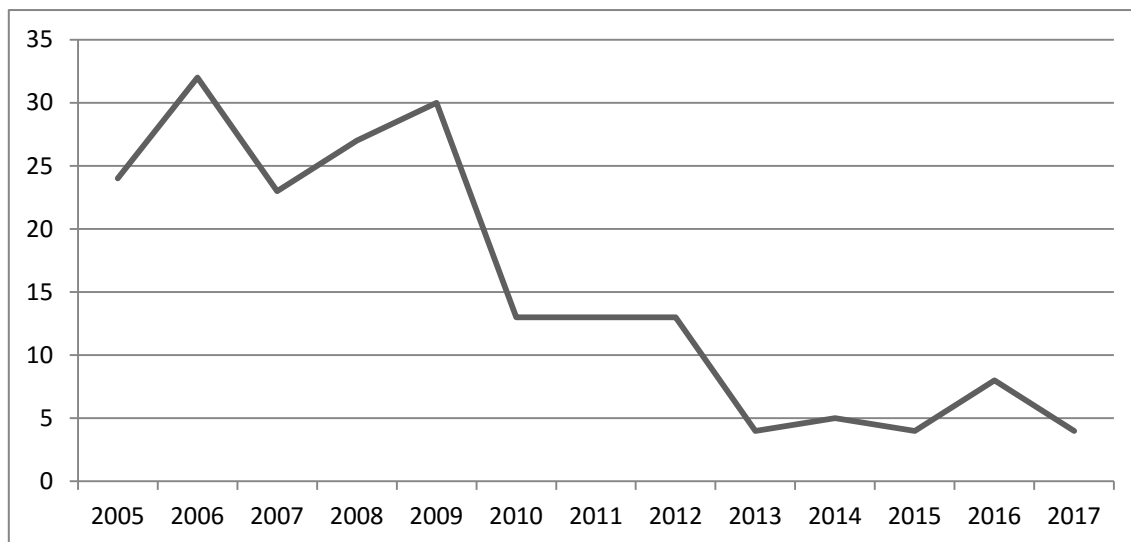


Table 7. Five most common diagnoses of in-patients

Ward 1B	Ward 2B	Ward 3B
Hernia	Hernia	Fracture (predom. femur)
Hydrocele	Tumour of skin and subcut.	Hernia
Bone fracture	Wound, contusion	Burns
Contusion, wound	Abdominal tumour	Osteomyelitis
Tumours of skin and subcut.	Fracture	Contusion, wound

Table 8. Major operations performed in Nyangao Hospital

Head and Neck:	
Thyroidectomy	15
Nasal polypectomy	3
Tongue suturing	2
Tracheostomy	1
Craniotomy	1
Total Head and Neck	22
Chest:	
Mastectomy (palliative and radical)	17
Lumpectomy	5
Thoracotomy	1
Total Chest	23

Abdomen:	
Inguinal hernia	87
Exploratory laparotomy (biopsy, drainage)	28
Appendectomy	22
Inguinal hernia obstructed	21
Laparotomy for peritonitis	18
Epigastric hernia op.	17
Resuturing of burst abdomen	15
Anal fissure op.	12
Partial resection of small intestine with anastomosis	12
Splenectomy	11
Incisional hernia op.	11
Adhesiolysis of bowels	10
Anal fistula op.	10
Haemorrhoidectomy	9
Small intestine repair	8
Ulcerorrhaphy	6
Umbilical hernia op.	6
Jejuno or ileo-transversostomy	6
Hemicolectomy	5
Colostomy	4
Imperforated anus opening, plasty	4
Hartmann's procedure	3
Colostomy closure (opening)	3
Cholecystectomy	3
Ileocecal resection	3
Femoral hernia op.	3
Ileostomy	3
Big intestine repair	3
Gastrostomy	2
Cholecystojejunostomy	2
Gastroenteroanastomosis	2
Sigmoidectomy	1
Reduction intususception	1
Liver injury repair	1
Partial colon resection with anastomosis	1
Hellers myotomy for achalasia	1
Suturing bleeding duodenal ulcer	1
Stomach injury repair	1
Thiersh's procedure	1
Intraperitoneal foreign body removal	1
Total Abdomen	358
Skin and Subcutaneous Tissue	
Excision of various tumours, biopsy	50
Wound toilet and suture, incision and drainage	28
Skin graft	10

Suturing tendon	1
Total Skin and Subcutaneous Tissue	89
Bones and Joints	
ORIF (Küntscher nail-45, plates & screws-9, Kirschner wire 11, others 3)	68
External fixation	61
Metal implants removal	32
Operations for osteomyelitis	29
Above knee amputation	23
Above elbow amputation	11
Below knee amputation	9
Fingers (toes) amputation	8
Foot amputation	1
Below elbow amputation	1
Total Bones and Joints	243
Urological:	
Hydrocelectomy	40
Orchidectomy	18
Partial scrotal resection and plasty	14
Cystotomy	7
Prostatectomy	5
Suprapubic cystostomy	5
Bouginage	3
Nephrectomy	3
Ureterocystoneostomy	1
Phymosis operation	1
TFT operations for urine incontinence	1
Orchidopexy	1
Urine bladder repair	1
Total Urological	100
Gynecological operations:	
TAH with adnexa	87
TAH	59
Adnexectomy (incl. ectopic pregnancy)	56
BTL	44
Subtotal hysterectomy (incl.due to rupture of uterus)	33
Cystoophorectomy	21
Salpingectomy (incl. ectopic pregnancy)	17
TVH	17
Kolporrhaphy anterior	16
Adhesiolysis of adnexa, stomatoplasty	8
Myomectomy	4
VVF repair	4
Operation for Bartholin's cyst	4
Kolporrhaphy posterior	4
Vaginal plasty	1

Cervix cerclage	1
Total Gynecological	376
Obstetrical operations:	
Cesarean section	489
Uterus repair	13
Total Obstetrical	502
Total major operations	1713

Table: 9

Minor procedures:	
Wound suture and surgical toilet	1721
Reduction of bone fracture and immobilization	1565
Incision and drainage (I&D)	94
Reduction of dislocated joint	25
Needle biopsy	16
Foreign body removal (nose, ear, oesophagus)	13
Joints aspiration	8
Excisional biopsy	6
Chest aspiration and drainage	6
Under water seal chest drainage	4
Circumcision	2
Total	3460

Table 10: Anesthesia

Type of anaesthesia	Major Theatre	Minor Theatre	OPD Theatre	Delivery Room	Total
Spinal	1085	26	-	-	1111
Ketamine	171	337	9	209	726
Gen. with intubation	356	-	-	-	356
Gen. with LMA	63	-	-	-	63
Local	37	113	13	13	183
Total	1712	476	22	22	2439

At anesthesia Nyangao Hospital suffers also from staff shortage. We convinced very experienced anesthetic nurse Ms. Gaudencia Ungele to extend her employment beyond retirement. With Mr. Francis Chilumba and Mr. Hashim Mbawala there is one anesthesia nurses. A new nurse (graduate from St. Thekla's Nursing School) went for training to KCMC. We are very grateful for the help provided by Dr. Daniela Kietzmann, German anesthetist working in Sweden, who is coming every year for training of our anesthetic staff and supplying with important anesthetic equipment. In September she organized interesting and useful presentation "Neonatal Resuscitation" for hospital personnel.

Table 11: Pathology examinations

Site	No	Pathology	No
Skin and subcutaneous tissue	26	Carcinoma	8
		Non specific inflammatory process	5
		Malignant lymphoma	4
		Malignant melanoma	3
		No pathological changes	2
		Lymphoma	1
		Fibromyxoma	1
		Pleomorphic adenoma	1
		Kaposi sarcoma	1
Uterus w/cervix, Vagina, vulva	29	Carcinoma	20
		Cervicitis	3
		Leyomyoma	2
		TB	2
		Myometrium	2
Prostata	7	Carcinoma	4
		Benign hyperplasia	2
		Schistosomiasis	1
Brest	17	Carcinoma	10
		Fibroadenoma	5
		Chronic inflammation	2
Nostrile, parotid gland, mouth, lips, jaws	4	Sialadenitis	1
		Carcinoma	1
		Adenoma	1
		Sarcoma	1
Anus, rectum	7	Carcinoma	6
		Proctitis	1
Ovary	5	Carcinoma	2
		Mesenchymoma	1
		TB	1
		Fibroma	1
Skeleton tissue	3	Osteosarcoma	1
		Malignant mesenchymoma	1
		Osteomyelitis	1
Peritoneum omentum	9	Germcells tumour	4
		TB	3
		Carcinoma	2
Large intestine	2	Chronic inflammation	2

Spleen	1	Mesenchymal tumour	1
Thyroid gland	3	Carcinoma	2
		Nodular goitre	1
Results not received	4		4
Total sent			117

There was established cooperation with Oncology Centre in Bydgoszcz, Poland which is currently doing histopathology examinations for us. Cost of examination is covering by generous private donor from the same country.

ACHIEVEMENTS

- Establishment and very effective use since beginning of the year Computerized Radiography system financed by Polish Aid. During the year 2017 over 6500 x-ray pictures mostly bones were performed. All pictures are stored in data base and immediately available. X-ray pictures are presented every day during morning meetings, available on additional screens during major and minor operations and from mobile tablets during doctor's round.
- After several consultations and discussions proposal for modernization of operation tract were elaborated.
- There was third year continuation of two month surgical on service training and two days seminar in October for doctors from neighboring hospitals financed by Polish Aid.

CONSTRAINS & FAILURES

- Lack of qualified permanent doctors performing surgery. Temporary employment of doctors who have no surgical experience or additionally have other duties is not changing much situation in the department which is receiving many difficult referral cases.
- There is practically no effective policy from higher level of health authorities for referral system carrying important information about patients .
- Despite of several efforts from Nyangao Hospital organizing training and workshops there is still very low level of knowledge and ability of treatment for growing number of traumatic cases especially bone fractures in neighboring hospitals.