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**ANNUAL REPORT
RADIOLOGY DEPARTMENT SARAWAK GENERAL HOSPITAL 2025**

HEAD OF DEPARTMENT : DR. ESTRELLITA ELENA BINTI MOHAMAD TAZUDDIN

INTRODUCTION

Radiology Department continues to play a pivotal role in patient's management in the ever-increasing demand for diagnostic imaging and interventional radiology procedures. As the only tertiary referral KKM hospital for radiology service in Sarawak, our department provided diagnostic and interventional radiology services with active participation in multidisciplinary board discussions with various disciplines and specialties. As of 2025, we have three in-house subspecialties, neuro-intervention and peripheral interventional radiology, Oncoradiology and Breast Radiologists.

OBJECTIVE

To provide quality diagnostic imaging and interventional services timely, accurate and safe. The requests for imaging shall be Justified and the services provided in accordance with the ALARA (As Low As Reasonably Achievable) principle.

SERVICES PROVIDED

Radiology department provides In-patient and Out-patient services for various modalities:

- **General Radiography:** X-rays in Main Department and Emergency Department.
- **Computed Tomography (CT scan):** 2 units CT scanners (64-row & 80-row detectors CT) in main radiology department which include Post Mortem CT and 1-unit intra-operative CT in brain suite (64- row detector).
- **Magnetic Resonance Imaging (MRI):** 1 unit 1.5 Tesla (70cm bore) closed system MRI
- **Mammography:** the Full-field Digital Mammography (FFDM) **is undergoing replacement to Digital Breast Tomography with Contrast enhanced Mammogram inclusive of Biopsy.**
- **Bone mineral densitometer:** 1 unit.
- **Fluoroscopy:** Main Radiology Department & Daycare Center (for ERCP and fluoroscopic-guided bronchoscopy services).
- **Interventional Radiology (IR) service:** Resident neuro- and peripheral interventional radiologists with visiting IR service to Hospital Sibu and Hospital Bintulu.
- **Mobile (Portable) Radiography:** Emergency Department, in-patient wards/ICU, isolation and Forensics.
- **Mobile Image Intensifier (I/I):** Main operating theatres, daycare operating theatres, trauma operating theatre.
- **Dental X-rays:** dental clinic Orthopantomography (OPG), cone-beam computed tomography (CBCT)
- **External reporting** of x-rays: from district hospitals, polyclinics, health clinics, TBCCP clinics (Tuberculosis Control Program), TB bus x-ray programme for Southern Cluster zone.
- **Ultrasound:** Main Radiology Department, **satellite locations** at KK Batu Kawa, KK Petra Jaya, KK Siburan, and regular visiting ultrasound service to Hospital Serian, Bau and Lundu.

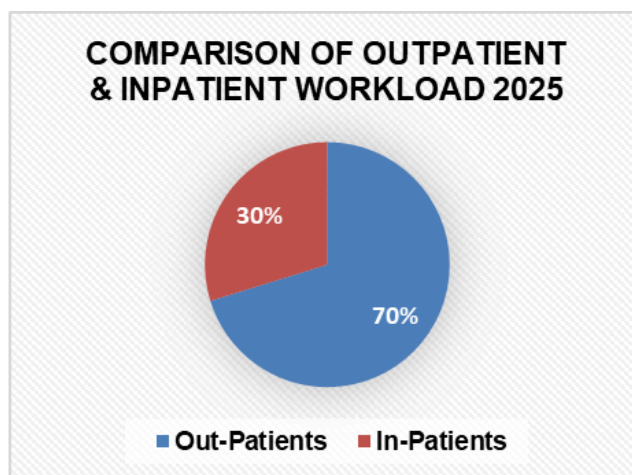
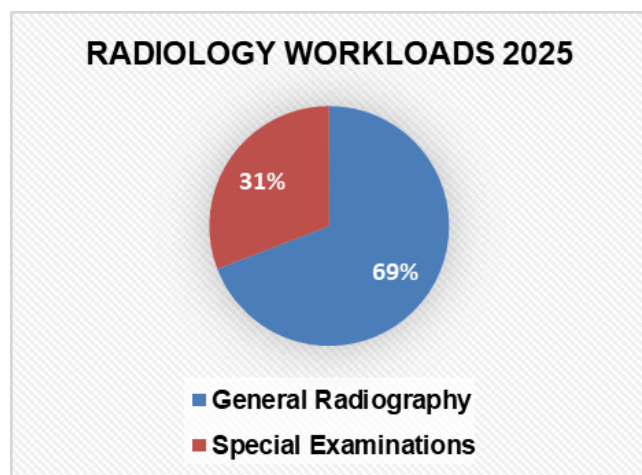
- **Appointment counter:** We handle radiology appointments for walk-in in- and out-patients and also referrals from other hospitals and klinik kesihatan via e-mails. We handled around $\pm$ 35,000 appointments for 2025.
- **Client's Service Counter:** Serves as patients' registration, information and customer support service
- **Image Digitisation, Upload and Printing Services:** Medical imaging management to enhance clinical collaboration for comprehensive care for patients.

STAFFING

No.	Category	Total (by Dec 2025)
1	Radiologist	13
2	Interventional Radiologist	4
3	Medical Officer	11
5	Radiographer	77
6	Nursing Sister and Staff Nurse	12
7	Physicist	1
8	Administrative Clerk (PT)	1
9	Hospital Attendant (PPK)	4

WORKLOADS

COMPARISON OF WORKLOAD BASED ON MODALITY / FACILITY (5 YEARS)					
MODALITY / FACILITY	TAHUN				
	2021	2022	2023	2024	2025
General Radiography	114109	127562	144795	153968	154584
Ultrasound + Breast	18142	18776	19023	18245	17658
CT SCAN + Brainsuite	22872	27428	31028	32187	33940
MRI	3517	3557	3999	3965	4230
Mammography (MMG)	1682	1831	2208	2253	1730
Operation Theatre + ESWL	1409	1354	1782	1405	1757
Fluoroscopy	1287	1390	1489	1647	1546
Dental	1929	2566	2818	2538	3402
Angiography / IR	1403	2885	4002	4809	5089
DEXA	474	873	1153	1534	1596
TOTAL	166824	188222	212297	222551	225532

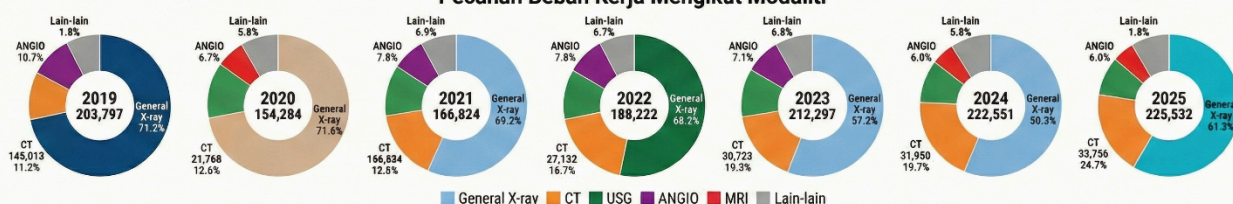


Analisis Beban Kerja Jabatan Radiologi Hospital Umum Sarawak (2019-2025)

Evolusi Beban Kerja Tahunan (2019-2025)



Pecahan Beban Kerja Mengikut Modaliti



General X-ray Kekal Dominan: Prosedur General X-ray secara konsisten menyumbang majoriti besar beban kerja setiap tahun.



Peningkatan Permintaan Imbasan CT: Bilangan imbasan CT menunjukkan trend peningkatan yang stabil sepanjang tempoh tujuh tahun.

ACTIVITIES

- Training, courses, Continuous medical education (CME) and multi-disciplinary meetings were conducted through hybrid of physical and virtual attendance.

1. TRAINING / COURSES / CME 2025

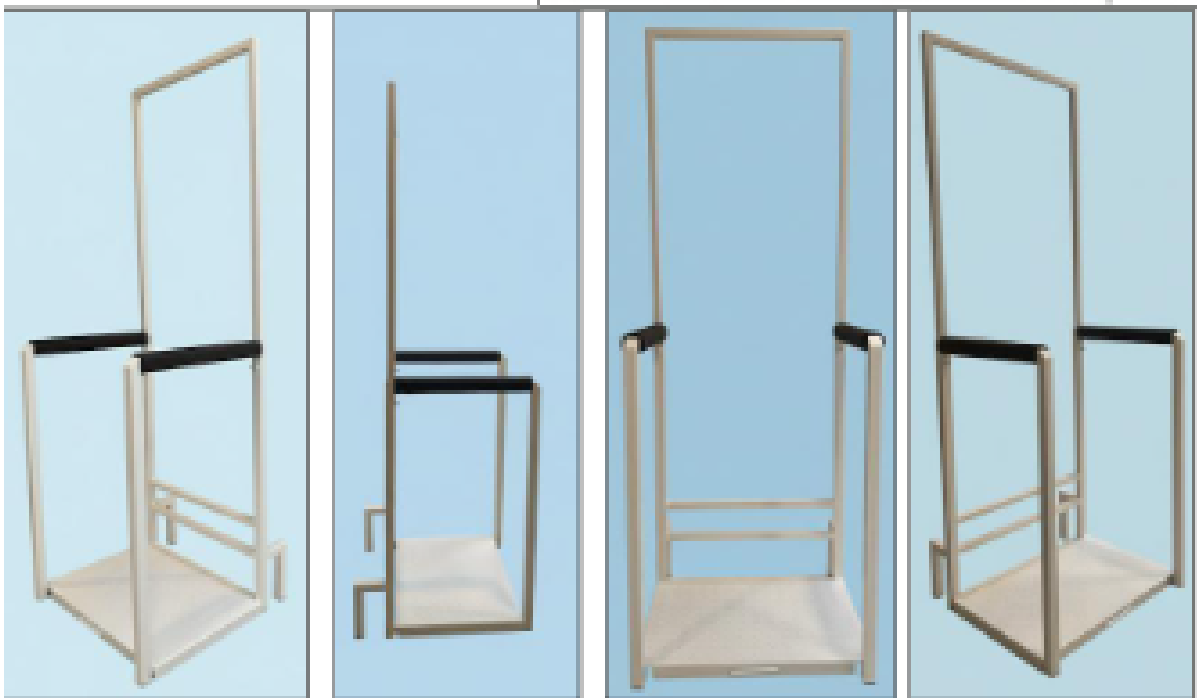
NO	DATE	VIRTUAL/ PHY	TOPICS	ORGANIZERS	TARGET
1	08/01/2025	VIRTUAL	*ECG Gated CT 101: Capturing The Heart Like A Pro	Radiology,,SGH	Radiographers, Nurses
2	5-6/2/2025	Auditorium CRC	Kursus Basic Life Support Bil 1&2/2025	ETD SGH	All
3	05/03/2025	VIRTUAL	*Coronary CTA	Radiology PJS	Radiographers
4	08/03/2025	Dewan Pesona	*Dual Energy Spectral CT Workshop by GE Healthcare	Radiology HUS	All
5	23/04/2025	Auditorium CRC	Kursus Pencegahan Dan Intervensi Menangani Cabaran Dunia Teknologi Dan Ancaman Jenayah Siber	Unit Teknologi Maklumat HUS	All
6	23/04/2025	VIRTUAL	Practical Approaches To Radiation Dose Optimization In CT Scan	Siemens Healthineers	All
7	24/05/2025	Auditorium Hospital Tengku Ampuan Afzan	Pemantapan Perkhidmatan Radiologi Melalui Tadbir Urus Klinikal Dan Akreditasi	Hospital Tengku Ampuan Afzan	Radiologists, Radiographers
8	10/05/2025	Dewan Pesona	Quality Management-Radiographer's Perspective	Radiology SGH	Radiologists
9	15/05/2025	Seminar Room	Carotid Doppler	Radiology SGH	MOs
10	18/05/2025	Seminar Room	Thoracic Imaging Educational Session	Radiology SGH	Radiologists, MOs
11	13/06/2025	Institut Kanser Negara	Empowering Cancer Imaging Services: Standard Oncology Reporting Course	Institut Kanser Negara	Radiologists, MOs
12	01/07/2025	Auditorium CRC	Kursus Ergonomic In Healthcare	Physiotherapy Unit	All
13	2-3/7/2025	Auditorium CRC	Kursus Basic Life Support Bil 3 &4/2025	ETD SGH	All
14	19/07/2025	Auditorium KBS	*Kursus Radiation Safety In Radiology Modalities 2025	Radiology SGH	All
15	09/08/2025	Auditorium CRC	Sarawak Basic Interventional Radiologi Workshop	Radiology HUS	All
16	13/08/2025	Auditorium CRC	SGH Medication Safety Course	Pharmacy Depti	All
17	16/08/2025	Hospital Tunku Azizah	Kursus ' <i>Paediatric Imaging Advocacy Towards Radiology Service Excellence</i> '	Hospital Tunku Azizah	All
18	02/09/2025	Hospital Queen Elizabeth II	Kursus 'Borneo Mammography Refresher Course 2.0 (Exclusively For Borneo's Mammographers)	Hospital Queen Elizabeth II	Mammographers
19	08/09/2025	Auditorium CRC	Kursus Pencegahan Jenayah	Unit Keselamatan HUS	All
20	19/09/2025	Auditorium CRC	Kursus Dan Sambutan Hari World Patient Safety Day	Unit Keselamatan HUS	All
21	29/09/2025	The Waterfront Hotel	Kursus "Training The Trainer 7.0 2025 For Radiology Parallel Pathway Educational Supervisors"	Radiology, SGH	Radiologists, MOs
22	13/10/2025	Seminar Room KKPJ	Kursus Pengurusan Kecemasan Radiologikal Dan Nuklear Negeri Sarawak	Seksyen KawalSelia Radiasi Perubatan JKN	All
23	20/10/2025	Seminar Room	First CME- Lines In Xray	Radiology, SGH	Radiologists, MOs
24	22/10/2025	Seminar Room	CNS Infections and Approach on Hydrocephalus	Radiology, SGH	Radiologists, MOs
25	05/11/2025	Seminar Room	Inflammatory Arthritides	Radiology, SGH	Radiologists, MOs

2. Innovation Project (KIK): Patient Support Device (X-STAND) for Radiographic Examinations in Standing Position

KIK TEAM RADIOLOGY SGH - RADHUS



X-STAND PROTOTYPE



3. Participation during SGH Open Day 2025 (18.10.2025)



4. International Day of Radiology (IDOR) 2025 Celebration - 07 November 2025, DCC





5. IDOR DINNER 8.11.2025 AT THEATHER HOTEL, KUCHING



6. Sport and Recreation:

- A. Radiology Department of SGH organized and participated in the 3rd Edition of the State Radiology Services Chief's Cup Futsal Tournament at UNIMAS Futsal Arena on 26 July 2025. Achievement – SGH B Champion



- B. Radiology Department of SGH fielded a team to participate in the 13th Edition of the National Radiology Championship, Datin Dr. Zaharah Binti Musa Cup, held at SLK Sport Center, Gombak on 06 September 2025. Achievement – Quarter Final



KPI CLINICAL RADIOLOGY 2025

KPI CLINICAL RADIOLOGY 2025					
NO	INDICATOR	DIMENSION	STD	ACHIEVEMENT	COMMENTS
1	Percentage of patients with waiting time of ≤ 60 minutes for commencement of Ultrasound examination	Timeliness	$\geq 90\%$	91.00%	Compliance
2	Percentage of reject-retake images	Effectiveness	$\leq 5\%$	2.05%	Compliance
3	Percentage of reported Plain Radiographic Examination (Xray) with turnaround time of 3 working days for Trauma Patients referred by Emergency & Trauma Department (ED/A&E)	Efficiency	$\geq 70\%$	100%	Partial Compliance

FUTURE PLAN

- To establish acute stroke thrombectomy service in HUS
- To increase the number of radiologists with sub-specialties training.
- Able to increase human resource ranging from clerical staff, allied health staff (PPK, staff nurse, radiographers), medical officers, and radiologists to provide better services to patients and improve welfare to staff.
- For future integration with Hospital Information System (HIS).
- To improve our facilities and services with latest technology and machines.