Revitalizing and strengthen the capacity of cancer management in Cambodia: Past-Present and future involvement of multi-stakeholders.

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INTRODUCTION

Cambodia:
Population: 16 millions
Territory: 181,035 km²

Oncology Department reopened in 2003 in the demand under the support of MoH and French NGOs (PMSF and CSF) => a Cobalt machine was installed, human resources.

After 10 years of operation with Cobalt 60, a proposal for New LINEAR ACCELERATOR (LINAC) in 2013 supported by MoH and the World Bank and ready to be used in 2016.

Recently in January 2018: New National Cancer Center was inaugurated.

PMSF: Physicien Médical Sans Frontière, CSF: Cancérologue Sans Frontière
1. Due to remarkable increase in number of new cancer cases vs treatment facilities (around 15,000 new cases per year. Only around 15%-20% who could access to the treatment in the country.

2. Challenges in term of facilities, human resources.

3. Budget allocation and technical cooperation.
A Brief History of Radiotherapy in Cambodia

1 Cobalt KSFH
1960

Interruption 1975-1979

1 Co-60 & LDR KSFH
2003-2014

2 Linacs 1 HDR
2015-Now

MoH, PMSF & CSF
imPAC mission report, National Frameworks
Multi-stakeholders: MoH, IAEA, International Partners

Pol Pot
Number of New cases of cancer patients has been increasing significantly since the re-opening of the Oncology department since 2003 till now (around 700 cases to more than 1800 cases per year) at Khmer-Soviet Friendship Hospital.

Number of radiotherapy treatment has also been increasing with imbalance between demand vs supply every year => 2nd Health Sector Support Project => LINAC
First 3D RADIATION THERAPY INSTALLED AT THE END OF 2015 AT KHMER-SOViet FRIENDSHIP HOSPITAL

Inauguration and grand opening of 1st Linac in Cambodia by H.E Minister of Health

World Bank Delegates
NATIONAL CANCER CENTER AT CALMETTE HOSPITAL INAUGURATED IN JANUARY 2018

Inauguration of new National Cancer Center by Samdach P.M
ACTIVITIES OF PHYSICIEN MÉDICAL SANS FRONTIÈRE (PMSF) AND THE IAEA AT KHMER-SOVIET FRIENDSHIP HOSPITAL (KSFH)

Hélène Aget, Current President of PMSF on the mission for training young Cambodian Physicists after the installation of new Linear Accelerator in 2016

On the job-training of PMSF mission for new Linac in 2017

National Liaison Officer (Cambodia), Program Management Officer (IAEA) and KSFH director meeting

Brandon Healy, IAEA technical Officer, visiting Radiotherapy team during PMSF technical aids in 2018
PMSF meeting in 2018 for preparing projects in Developing countries (esp: Cambodia, Laos...)

KSFH and PMSF team at Linac KSFH, Cambodia in 2016

Mentorship and Protocol Setting up at Oncology Department of KSFH for Standard Practical Guidelines for Specific cancer sites by Radiation Oncologist of PMSF and IPC
SUPPORTIVE MISSION KAM6001/6002 WITH THE TECHNICAL TEAM FROM APROSIG AT CALMETTE HOSPITAL

APROSIG activities with On-the-job training and Technical support for Calmette team
MoU between KSFH and Institut Paoli-Calmettes (France) for Human Resources Development and technical support. Prof. NGY Meng (KSFH Director) and Prof. Patrice VIENS (Director General of IPC).

Prof. Simon Schraub and Prof. Patrick Dufour, one the Pioneers of Oncology Specialty Training (Fellowship Program from Strasbourg, France) in Cambodia

Residency program in Oncology with cooperation between Cambodian and French Universities
Current situation of Human resources

- Around 30 Oncologists has been trained and working in the main 2 centers for the whole countries (mostly done fellowship in Strasbourg and Marseille, Montpellier through Inter-Universities cooperation).

- Amount them are 11 Radiation Oncologists:
  - 9 Residents done fellowship in France (ICANs “previously Centre Paul-Strauss”-Strasbourg, IPC-Marseille, Montpellier)
  - 2 graduated Residents done fellowship in the Philippines (by the IAEA-TC projects).

- 4 Medical Physicists (with master degrees): 2 trained from France, 2 from Malaysia. And 1 more will start the Master degree in Malaysia by the project KAM6003.
PERSPECTIVES

- **At KSFH:**
  - 1 more LINAC project planned from hospital.
  - 1 HDR Brachytherapy also in the planning of hospital project.

- **The Cancer Center-Calmette Hospital:**
  - At 2 more LINACs will be operational (in 5 year planning)
  - Diagnostic imaging: PET-Scan, MRI...

- **Human Resource development:**
  - Oncologists “Med Onc, Rad Onc, Hemato (MoU with ICANS-University of Strasbourg, and IPC-University of Marseille, Institute de Cancer-Montpellier, IAEA funding Project KAM001-KAM6002-KAM6003)
  - Medical Physicists, Dosimetrists, Radiation Technologists with future possibilities of local curriculum (French Medical Physicists without Border, IAEA–TC projects, APROSIG “RANZCR”).

- Extension of regional cancer centers: at least 3 more regional centers in the future.
THANK YOU (OR KUN)

Angkor Wat in Siem Reap

Royal Palace

Floating houses on Tonle Sap River

National Museum

Natural Volcano lake

French Protectorate-Style Market Since 1910, Phnom Penh

KAMPOT