Clinical Research Centre (CRC), Duchess of Kent Sandakan Hospital (HDOK) is the fourth and new CRC in Sabah and CRC HDOK was established on 21st July 2014. The Head of CRC HDOK is Dr. Lai Chung Ket and the manager is Dr. Eswaran Kantasamy.

The renovation and asset acquirement for CRC HDOK was completed in 26th December 2014. CRC HDOK has an office which is situated in the first floor of Klinik Pakar HDOK and a room dedicated for research activities in Medical Outpatient Department (MOPD) which is situated in the second floor of the same building. Below are the pictures of the newly completed CRC HDOK.
2. **MREC New Review Process**

Start

Principle Investigator (PI) determines the following:

- Industry sponsored research
  - Yes
  - No
  - Apply for MOH-NIH grant?
    - Yes
    - No
    - Is PI a NIH staff?
      - Yes
      - No
      - No
      - Start

PI submits study documents and signed IA-HOD-IA form to CRC Hospital which has Hospital Research Review Committee (HRRC). If no CRC in hospital submits to state CRC

HRRC secretariat forwards study documents and signed IA-HOD-IA to NIH IRRC and copy to PI

HRRC informs PI to register protocol and signed IA-HOD-IA in NMRR

HRRC do the following:
- Provides PI with HRRC recommendation on protocol
- Informs PI to register protocol and upload signed IA-HOD-IA and HRRC recommendation in NMRR
- Advise PI to obtain study site’s approval before conduct of study

HRRC informs PI to register protocol and signed IA-HOD-IA in NMRR

MREC conducts full board review

Correct

MREC chair review HRRC’s a recommendation and makes decision

MREC Secretariat prepares and sends decision letter to PI and copy to

End

Incorrect

PI email study documents and IA-HOD-IA form to NIH IRRC

PI submits study documents and signed IA-HOD-IA form to CRC Hospital which has Hospital Research Review Committee (HRRC). If no CRC in hospital submits to state CRC

HRRC secretariat forwards study documents and signed IA-HOD-IA form to CRC Hospital.

HRRC staff as HRRC secretariat determines the following:

- Clinical research?
  - Yes
  - No
  - Minimal risk?
    - Yes
    - No
    - No
    - Clinical research?
      - Yes
      - No
      - Minimal risk?
        - Yes
        - No
        - No
        - Clinical research?
          - Yes
          - No
          - Minimal risk?
            - Yes
            - No
            - No
            - Clinical research?
              - Yes
              - No
              - Minimal risk?
                - Yes
                - No
                - No

HRRC members conduct a scientific and ethical review using the HRRC reviewer form.

HRRC satisfied with study documents?

- Yes
  - HRRC discuss recommendation with PI
  - No
  - HRRC do the following:
    - Provides PI with HRRC recommendation on protocol
    - Informs PI to register protocol and upload signed IA-HOD-IA and HRRC recommendation in NMRR
    - Advise PI to obtain study site’s approval before conduct of study

MREC secretariat email recommendation of the protocol with its NMRR ID to MREC

MREC secretariat re-assess of HRRC’S risk determinations

MREC chair review HRRC’S recommendation and makes decision

MREC Secretariat prepares and sends decision letter to PI and copy to

End
<table>
<thead>
<tr>
<th>NO</th>
<th>NMRR ID</th>
<th>DEPARTMENT / UNIT</th>
<th>STUDY SITE</th>
<th>STUDY TITLE</th>
<th>RESEARCH SUBTYPE</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>NMRR-13-1245-18676</td>
<td>Cardiology</td>
<td>HQE 2</td>
<td>A multicenter, randomized, double-blind, placebo controlled phase III study to evaluate the efficacy, safety and tolerability of serelaxin when added to standard therapy in acute heart failure patients</td>
<td>Interventional Study : Clinical Trial</td>
</tr>
<tr>
<td>2</td>
<td>NMRR-14-244-20044</td>
<td>Oncology</td>
<td>HWKKS</td>
<td>A randomized, multicenter, open-label phase iii study to evaluate the efficacy and safety of trastuzumab emtansine versus the combination of trastuzumab plus docetaxel as first-line treatment of patients with her2-positive progressive or recurrent locally advanced or metastatic breast cancer</td>
<td>Interventional Study : Clinical Trial</td>
</tr>
<tr>
<td>3</td>
<td>NMRR-14-492-20263</td>
<td>Cardiology</td>
<td>HQE 2</td>
<td>Randomized Evaluation of short-term DUal anti platelet therapy in patients with acute coronary syndrome treated with the COMBO dual-therapy stent</td>
<td>Interventional Study : Clinical Trial</td>
</tr>
<tr>
<td>4</td>
<td>NMRR-14-643-21505</td>
<td>Gastroenterology</td>
<td>HQE</td>
<td>Multinational Abluminal Sirolimus Coated BiO-Engineered Stent -The MASCOT Post Marketing Registry</td>
<td>Observational Study : Patient registry/Clinical database</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>ID</td>
<td>HQE</td>
<td>Prospective Incidence Study of Viscerotropic-Like and Neurotropic-Like Disease in Dengue-Endemic Regions. Multinational, observational, prospective, hospital-based incidence study of 1-year duration per site</td>
<td>Observational Study : Patient registry/Clinical database</td>
</tr>
<tr>
<td>6</td>
<td>NMRR-14-699-21604</td>
<td>Cardiology</td>
<td>HQE 2</td>
<td>An International Multicenter Prospective Observational Study to Evaluate the Epidemiology, Humanistic and Economic Outcomes of Treatment for Chronic Hepatitis C Virus (HCV)</td>
<td>Observational Study : Clinical Epidemiology</td>
</tr>
<tr>
<td>7</td>
<td>NMRR-14-682-21617</td>
<td>Pediatrics</td>
<td>SWACH</td>
<td>A 26-week open label, randomised, 2-armed, parallel group, multi-centre trial investigating efficacy and safety of insulin detemir versus insulin Neutral Protamine Hagedorn in combination with metformin and diet/exercise on glycaemic control in children and adolescents with type 2 diabetes insufficiently controlled on metformin ± other oral antidiabetic drug(s) ± basal insulin</td>
<td>Interventional Study : Clinical Trial</td>
</tr>
<tr>
<td>8</td>
<td>NMRR-14-782-21691</td>
<td>Haematology</td>
<td>HQE</td>
<td>Global Anticoagulant Registry in the FIELD observing treatment and outcomes in patients with treated acute Venous Thromboembolic Events in the real world</td>
<td>Observational Study : Patient registry/Clinical database</td>
</tr>
</tbody>
</table>
# Table 2: Investigator Initiated Research (IIR) Approved by MREC

<table>
<thead>
<tr>
<th>NO</th>
<th>NMRR ID</th>
<th>STUDY TITLE</th>
<th>STUDY SITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NMRR-14-602-21518</td>
<td>Characteristics and clinical features of acute decompensated heart failure patients in sabah heart centre</td>
<td>QEH 2</td>
</tr>
<tr>
<td>2</td>
<td>NMRR-14-603-21519</td>
<td>Relationship between b-type natriuretic peptide (bnp) value with clinical symptoms of stable heart failure patient in sabah heart centre</td>
<td>QEH 2</td>
</tr>
<tr>
<td>3</td>
<td>NMRR-14-268-19371</td>
<td>&quot;Evaluation of cervical ripening between transcervical foley catheter versus hygroscopic cervical dilator (laminaria) for induction of labour in previous caesarean delivery: a prospective randomized study&quot;</td>
<td>SWACH</td>
</tr>
<tr>
<td>4</td>
<td>NMRR-14-744-21699</td>
<td>Willingness-to-pay (WTP) study on warfarinised patients for point-of-care INR test</td>
<td>QEH 2</td>
</tr>
<tr>
<td>5</td>
<td>NMRR-14-713-21117</td>
<td>Assessment of infection and exposure to malaria species in two case study communities in Kudat, Sabah,Malaysia</td>
<td>Pejabat Kesihatan Daerah Kudat</td>
</tr>
<tr>
<td>6</td>
<td>NMRR-14-610-21560</td>
<td>Evaluation of i-kelahiran, a health informatics system in sabah state health department</td>
<td>JKNS</td>
</tr>
<tr>
<td>7</td>
<td>NMRR-14-1067-20253</td>
<td>Health Literacy, Compliance To Treatment Regiments And The Effectiveness Of New Education Intervention For Diabetic Patient At Hospital Setting</td>
<td>QEH</td>
</tr>
<tr>
<td>8</td>
<td>NMRR-14-1117-19586</td>
<td>Awareness, Use, Harm Perception and Behaviours on Electronic Cigarettes among Clinic Attendees in Malaysia</td>
<td>QEH/ KK Penampang</td>
</tr>
<tr>
<td>9</td>
<td>NMRR-14-894-21458</td>
<td>Risk Factors of Postnatal Depression among Ethnic Women in Sabah.</td>
<td>SWACH</td>
</tr>
<tr>
<td>10</td>
<td>NMRR-14-899-21514</td>
<td>Paternal factors in spontaneous first trimester abortion</td>
<td>SWACH</td>
</tr>
<tr>
<td>11</td>
<td>NMRR-14-1005-21506</td>
<td>A Survey on the Clinical Spectrum of Paediatric Patients with Life-Limiting Disorders who received Palliative Care in Malaysia and their Providers</td>
<td>SWACH</td>
</tr>
<tr>
<td>13</td>
<td>NMRR-14-876-22114</td>
<td>Pharmacists's barriers and attitudes towards research in kota kinabalu: a qualitative study</td>
<td>QEH/QEH2</td>
</tr>
<tr>
<td>No.</td>
<td>Code</td>
<td>Title</td>
<td>Author(s)</td>
</tr>
<tr>
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<tr>
<td>15</td>
<td>NMRR-14-1093-21811</td>
<td>Malaysia SLE Quality of Life Study</td>
<td>QEH</td>
</tr>
<tr>
<td>16</td>
<td>NMRR-14-1098-19168</td>
<td>Is There Any Differences Between Patients with Ventriculosubgaleal Shunt and Extraventricular Drainage in Acute Hydrocephalus, Not Requiring Permanent Shunt</td>
<td>QEH2/ SWACH</td>
</tr>
<tr>
<td>17</td>
<td>NMRR-14-391-20420</td>
<td>The association between patients' beliefs about medicines and adherence to cardiovascular medicines among patients in Tawau Hospital: a cross-sectional questionnaire study</td>
<td>Hospital Tawau</td>
</tr>
<tr>
<td>18</td>
<td>NMRR-14-991-22250</td>
<td>Knowledge And Attitude On Postpartum Depression Among Postnatal Mothers In Hospital Wanita Dan Kanak-Kanak Sabah.</td>
<td>SWACH</td>
</tr>
<tr>
<td>19</td>
<td>NMRR-14-738-21948</td>
<td>Socio demographic profiles of Rheumatic Heart Disease (RHD) patients in Sabah</td>
<td>QEH2</td>
</tr>
<tr>
<td>20</td>
<td>NMRR-14-1245-22284</td>
<td>Knowledge And Practice On Pregnant Mother On The Intake Of Folic Acid In Hospital Wanita Dan Kanak-Kanak Sabah.</td>
<td>SWACH</td>
</tr>
<tr>
<td>21</td>
<td>NMRR-14-1244-22270</td>
<td>Obesity And its Outcome In Pregnancy at Hospital Wanita Dan Kanak-Kanak Sabah.</td>
<td>SWACH</td>
</tr>
<tr>
<td>22</td>
<td>NMRR-14-1247-22288</td>
<td>assessment of knowledge among midwives on management of post-partum haemorrhage</td>
<td>SWACH</td>
</tr>
<tr>
<td>23</td>
<td>NMRR-13-1656-18841</td>
<td>A Study on Perception of Need &amp; Time Needed to Render Critical Ward Services by Clinical Pharmacist In Neonatal Intensive Care Unit in Hospital Duchess of Kent, Sandakan</td>
<td>HDOK</td>
</tr>
<tr>
<td>24</td>
<td>NMRR-14-1224-21175</td>
<td>Effect lactation counselling for mothers of very low birth weight (VLBW) infants on maternal anxiety and breast milk expression.</td>
<td>SWACH</td>
</tr>
<tr>
<td>25</td>
<td>NMRR-14-1226-21410</td>
<td>Kesan persekitaran kerja jururawat dan kecerdasan emosi ke atas tingkahlaku penyayang jururawat di sabah</td>
<td>JKNS</td>
</tr>
<tr>
<td>26</td>
<td>NMRR-14-1006-21487</td>
<td>Urinary Incontinence and Its Impact on Quality Of Life among Elderly Women Attending Klinik Kesihatan Penampang.</td>
<td>KK Penampang</td>
</tr>
<tr>
<td>27</td>
<td>NMRR-14-1242-22261</td>
<td>Knowledge regarding Postpartum Anaemia among Mothers in Sabah Women and Children Hospital</td>
<td>SWACH</td>
</tr>
<tr>
<td>28</td>
<td>NMRR-14-1214-23005</td>
<td>Work - Life Balance, Perceived Value of Money and Employees' Outcomes: An Empirical Study in Malaysia's healthcare industry</td>
<td>QEH</td>
</tr>
</tbody>
</table>
4. Photo Gallery

Site Initiation Visit (SIV) for Kailee Study (11 September 2014) at CRC, Sabah Women and Children Hospital (SWACH)

Basic research methodology and Biostatistics workshop (24 - 26 sept 2014) at Sabah Women and Children Hospital (SWACH)

CRC Network meeting (29-30 sept 2014) at CRC, Sarawak General Hospital, Kuching
CRC Family Dinner (30 Sept 2014) at Banquet Restaurant, Kuching, Sarawak.

8th NCCR 2014 (30 Sept – 2 Oct 2014) at Four Point By Sheraton hotel Kuching, Sarawak
Basic Data Analysis Using SPSS Workshop (15 – 16 Oct 2014) at Computer Lab, KSKB Kota Kinabalu

CRC Sabah Network Meeting with State Director (17 October 2014) At Queen Elizabeth Hospital

Research Methodology Workshop for Dietician (19 Nov 2014) Bilik Raflesia, Hospital Queen Elizabeth II
5. CONTACT US

1. Clinical Research Centre
   Hospital Queen Elizabeth
   Locked Bag No 2029
   88586 Kota Kinabalu
   Sabah
   Tel :088-517507
   Fax: 088-211906
   Email: crc.sabah@sbh.moh.gov.my

2. Clinical Research Centre
   Level 5, Cardiology Clinic
   Hospital Queen Elizabeth II
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   Off Jalan Damai Luyang
   88300 Kota Kinabalu
   Sabah
   Tel: 088-324600(2019)
   Fax: 088-272454

3. Clinical Research Centre,
   7th Floor, Pusat Perubatan Nuklear Dan Radioterapi,
   Hospital Wanita dan Kanak-kanak, Karung Berkunci
   No 187, 88996 Kota Kinabalu, sabah.
   Tel:088-522600 (2272)
   Fax: 088-435734

4. Clinical Research Centre
   Klinik Pakar Aras 1
   Hospital Duchess of Kent
   KM 3.2, Jalan Utara
   90000 Sandakan, Sabah.
   Tel: 089-248600
   Fax: 089-213607

6. UPCOMING EVENT

1. Good Clinical Practice (GCP) Course 2015
   Date: 18 – 20 Mac 2015

2. Basic Research Methodology and Biostatistics Workshop
   Date: 19 – 21 April 2015

RESEARCH CONSULTATION CLINIC

Provide consultation services to facilitate researchers in:

1. Research idea
   - Literature search

2. Research Proposals
   - Study Design
   - Sample size Calculation
   - Statistical analysis

3. Data analysis

4. Presentation/Publication/

Consulting services are provided at the CRC Unit. An APPOINTMENT
is required, and maybe made by email or by phone:

 crc.sabah@moh.gov.my
Tel : 088-517507 or 088-324600 ext 2019

<table>
<thead>
<tr>
<th>DAY</th>
<th>VENUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday &amp; Tuesday</td>
<td>CRC, HQE</td>
</tr>
<tr>
<td>Wednesday</td>
<td>CRC, HWKKS</td>
</tr>
</tbody>
</table>