BULETIN PENYELIDIKAN DAN PEMBANGUNAN
FARMASI NEGERI SELANGOR
BIL 2/2016

ISI KANDUNGAN
Mukasurat (2)
AKTIVITI JAWATANKUASA R&D FARMASI SELANGOR JUL-DIS 2016
Mukasurat (3)
PENCAPAIAN KAJIAN R&D
Mukasurat (8)
LATIHAN ANJURAN JK
Mukasurat (9)
AKTIVITI R&D PTJ
Mukasurat (10)
UPCOMING EVENTS
## SENARAI AHLI JAWATANKUASA R&D FARMASI SELANGOR 2016/2017

<table>
<thead>
<tr>
<th>Penasihat:</th>
<th>Dr. Roshayati binti Mohammad Sani</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timbalan Pengarah Kesihatan Negeri (Farmasi)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pengerusi:</th>
<th>Pn Norharlina binti Sulaiman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pegawai Farmasi UF52,</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Setiausaha 1:</th>
<th>Pn Sarah Diyana binti Shafie</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pegawai Farmasi UF48, Hospital Kajang</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Setiausaha 2:</th>
<th>Pn Haniati Hasan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ketua Penolong Pengarah Farmasi (A&amp;P) UF48, JKNS</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Jawatankuasa Kecil</th>
<th>Ketua</th>
<th>Ahli</th>
</tr>
</thead>
</table>
| Latihan | Pn. Asmahani binti Ramelan | Pn. Kong Su Shan (Penolong)  
Pn. Wong Su Li  
En. Jayamania Rao a/l Ramadoo  
En. Silambarasu a/l V. Karuppiah  
Cik Yah Xin Yun  
Pn. Asdayati binti Buang  
En. Dinesh a/l Wadiadharan |
Cik Sia Xin Ni  
Cik Catherine Chuah Jia Qian  
Pn. Nur Kamalah binti Daud @Mahusain  
Pn. Hazwani binti Abdul Harith  
Pn. Sayeeda Zainal binti Hasnor  
Pn. Nurul Syazwani binti Mohamad  
En. Muhammad Fahmi bin Jamil  
Cik Hafizah binti Hassim |
| Scientific | Pn. Ruwaida Nur bt Zainol Abidin | Cik Puteri Juanita binti Zamri (Penolong)  
Cik Anusuya a/p Krishnarajah  
Pn. Aswani Yanti binti Baharuddin  
Pn. Noorul Aimi binti Daud  
Pn. Wan Nor Ashikin binti Wan Ibrahim  
Cik Mogana a/p Mathayena  
Pn. Ng Choi Dhoong |
AKTIVITI JAWATANKUASA R&D FARMASI SELANGOR
JULAI—DISEMBER 2016

MESYUARAT JK

Mesyuarat JK R&D Farmasi Selangor dan Pegawai Perhubungan (Liaison Officer)

• Mesyuarat JK Kecil Penerbitan, JK R&D JKNS untuk membincangkan penerbitan bulatan R&D Bil 2/2016

LATIHAN

Aktiviti latihan yang telah dijalankan

• Sesi Latihan Pembentangan Oral dan Poster Kajian Penyelidikan dan Pembangunan Farmasi (14, 22 Julai dan 2 Ogos 2016)
• Sesi Konsultasi Kajian Penyelidikan dan Pembangunan Farmasi di Institute for Health System Research (IHSR) (7 September dan 27 September 2016)
• Sesi Konsultasi Kajian Penyelidikan dan Pembangunan Farmasi di Institut Penyelidikan Perubatan (28 Oktober 2016)
Seizure Control among Epilepsy Patients through Epilepsy Review Service (ERS) in Primary Care Setting

INTRODUCTION:
Epilepsy is a debilitating disease affecting more than 200,000 people in Malaysia. A pilot study conducted in our setting revealed 9.6% of epilepsy patients had their seizure well-controlled. Epilepsy Review Service (ERS) is a pharmacist-initiated effort in collaboration with other healthcare professionals to improve health outcomes among epilepsy patients in primary care. ERS consists of restructured workflow of patient care, newly implemented Seizure Diary, Therapeutic Drug Monitoring (TDM) Guide and Epilepsy Counselling Guide. The objective of this study is to determine the percentage of patients that had improvement in seizure control after implementing ERS.

METHODOLOGY:
A cross-sectional study involving 156 patients from three clinics within Klang district was conducted from January 2014 to May 2015. The retrieved data was in the form of a self-constructed data collection form, medical records and patient's seizure diary.

RESULTS:
Number of patients showing improved seizure control increased from a baseline of 9.6% to 37.8% at 6 months and 52.6% at 12 months. The mean monthly seizure frequency dropped from 1.95 (SD 2.04, range 0-10, median 1.0) at the baseline to 1.91 (SD 2.02, range 0-7, median 1.0) at 6 months and 0.94 (SD 1.30, range 0-7, median 1.0) at 12 months. Post interventions showed increment in the completion of TDM cases within 72 hours (84.1%), counseling done (89.3%), medication side effects (77.9%) and drug interactions (82.1%) reviewed.
INTRODUCTION: Quality of anticoagulation control is commonly expressed by time spent in the therapeutic international normalized ratio (INR) range (TTR). It is important to ensure optimal outcome during therapy because the high variability of INR is associated with adverse outcomes.

OBJECTIVE: To assess the clinical outcomes of warfarin therapy in Warfarin MTAC and usual care clinic in Hospital Kajang.

METHODS: A cross-sectional study with 78 randomly sampled patients from physician (MOPD)- and pharmacist (MTAC)-managed anticoagulation clinics was carried out from May 2013 to May 2014. The primary outcome was the percentage of time patients' INR was in the therapeutic range (TTR). Secondary outcomes were the percentage of time in therapeutic range within ± 0.2 units of the recommended range (expanded TTR), episodes of haemorrhagic and thromboembolic complications, patients' compliance and defaulter rate.

RESULTS: The majority of warfarin patients was male patients (45.5% in MTAC vs. 64.4% in MOPD), with Malay patients as the main population. The most common indications for warfarin were atrial fibrillation and mechanical heart valves. The TTR was 66.6% for MTAC and 45.5% for MOPD patients (p<0.001). The expanded TTR for MTAC was 79% and 55.8% for MOPD (p<0.001). There was no significant difference between MTAC and MOPD patients in terms of complications of warfarin therapy. The compliance score showed significant difference with MTAC patients scored 1.45 and MOPD patients scored 2.29. The defaulter rate was significantly lower in MTAC (3%) vs. MOPD (22%) (p=0.038).

CONCLUSION: The pharmacist-managed anticoagulation program achieved significantly better INR control as measured by the percentage of time patients' INR values were kept in both the therapeutic and expanded range, compliance score, and defaulter rate. Warfarin MTAC offers safe and effective treatment...
ASSESSMENT OF CLINICAL OUTCOMES OF WARFARIN THERAPY IN TWO MODELS OF ANTICOAGULATION SERVICES

C.E. Lee, H.Y. Wong, S. Sarah Diyana, S.C.Chee, M.N. Siti Nor Aisyah, L.K. Ho.
1 Department of Pharmacy, Kajang

**TAHNIAH!!**

**Best Poster Award**

ASSESSMENT OF CLINICAL OUTCOMES OF WARFARIN THERAPY IN TWO MODELS OF ANTICOAGULATION SERVICES

C.E. Lee, H.Y. Wong, S. Sarah Diyana, S.C.Chee, M.N. Siti Nor Aisyah, L.K. Ho.
1 Department of Pharmacy, Kajang

**'Consolation Prize'- Oral**

Lau S.Y., 1 Lee F.Y., 1 MohdZaki Z.J., 1 Roslan N.I., 1 Kuppusamy S.K., 1 Zamri S.M., 1 Poh V., 1 Bee B.C., 2 Wong H.S., 2 Zakaria Z. 2 Is the ISPD recommended dosage of IP Aminoglycosides & Vancomycin appropriate for Asian PD Patients with Peritonitis?.
1 Department of Pharmacy, Hospital Selayang
2 Department of Nephrology, Hospital Selayang

**'Consolation Prize'- Poster**

1 Department of Pharmacy, Hospital Selayang
2 Department of Nephrology, Hospital Selayang

Poh W.Y., 1 Lee C.C., 1 Nadra A.R., 1 Ng C.K., 1 Teh A.L, 1 Sarah K.J, 1 Safia A., 1 Azmihall R., 2 Mollyza M.Z., 2 Lau I.S2 & Habibah M.Y2. A Retrospective Study of Immunoglobulin Utilization Pattern in Hospital Selayang, a Tertiary Care Hospital in Malaysia.
Department of Pharmacy, Hospital Selayang
Department of Medical, Hospital Selayang

Diterbitkan oleh: JK Penyelidikan Dan Pembangunan (R&D) Farmasi Selangor
## 9th National RnD Pharmacy Conference 2016
8-10 Ogos 2016, Everly Hotel, Putrajaya

**Sia XN, Ch’ng LY, Narayanan J, Armugam A, Mahmud O, Mansor AA, Jayaraman L, Lim PY, Tan SY**
Green Bag Medication Review: Improving Adherence through Patient Empowerment.
Department of Pharmacy, Gombak District Health Office

**Wong Su Li, Cheang Ching Ye, Hanum Maisarah Abd Rahman, Norharlina Sulaiman, Ng Kar Mun.**
Seizure Control among Epilepsy Patients through Epilepsy Review Service (ERS) in Primary Care Setting.
Department of Pharmacy, Klang District Health Office

Investigating Dropouts and Discontinuation in Ubat Melalui Pos 1Malaysia (UMP1M) and Speed–Collect.
Pharmacy Department, Hospital Kajang

**C.E. Lee, H.Y. Wong, S. Sarah Diyana, S.C. Chee, M.N. Siti Nor Aisyah, L.K. Ho.**
Assessment of Clinical Outcomes of Warfarin Therapy in Two Models of Anticoagulant Services.
Pharmacy Department, Hospital Kajang

**S.C. Chin, S. Sarah Diyana, M.S. Ani Norfarah, R. Thivagar, J.Y. Goh, M. Nur Amanina.**
Evaluation of The Risk Factors Associated with Mortality and Nephrotoxicity in Patient Treated with Polymyxin at Hospital Kajang.
Pharmacy Department, Hospital Kajang

## IKN Research Day 2016
30 Ogos 2016, Auditorium Institut Kanser Negara

**S.C. Chin, S. Sarah Diyana, M.S. Ani Norfarah, R. Thivagar, J.Y. Goh, M. Nur Amanina.**
Evaluation of The Risk Factors Associated with Mortality and Nephrotoxicity in Patient Treated with Polymyxin at Hospital Kajang.
Pharmacy Department, Hospital Kajang
Side effect is any unintended effect of a pharmaceutical product occurring at doses normally used in man which is related to the pharmacological properties of the drug. It can be a positive or negative effect. While, ADR is a negative effect and may not necessarily be related to the pharmacological action of the drug [1].

Syabas juga diucapkan kepada Pegawai-pegawai Farmasi dari Hospital/PKD di Selangor yang telah berjaya menyertai Persidangan-Persidangan Penyelidikan seperti berikut:

10th National Conference for Clinical Research (NCCR) 2016
27-28 Julai 2016, Hotel Istana

Wong Su Li, Cheang Ching Ye, Hanum Maisarah Abd Rahman, Norharlina Sulaiman, Ng Kar Mun
Seizure Control among Epilepsy Patients through Epilepsy Review Service (ERS) in Primary Care Setting.
Department of Pharmacy, Klang District Health Office

C.E. Lee, H.Y. Wong, S. Sarah Diyana, S.C. Chee, M.N. Siti Nor Aisyah, L.K. Ho.
Assessment of Clinical Outcome of Warfarin Therapy in Two Models of Anticoagulant Services.
Pharmacy Department, Hospital Kajang

Io SH, Chong SH, Zainol Abidin NM, Shamsuddin FI, Jamalun
Pharmacy Department, Ampang Hospital, Selangor

Selangor Research Day 2016
7–8 September 2016, Hospital Tengku Ampuan Rahimah, Klang

Evaluation of The Risk Factors Associated with Mortality and Nephrotoxicity in Patient Treated with Polymyxin at Hospital Kajang.
Pharmacy Department, Hospital Kajang

Impact of Pharmacist Facilitated Discharge Medication Reconciliation in Cardiology Ward in Selayang Hospital.
Department of Pharmacy, Hospital Selayang

NIH Research Week 2016
19–23 November 2016, Kompleks Perbadanan Putrajaya

Io SH, Chong SH, Zainol Abidin NM, Shamsuddin FI, Jamalun
Pharmacy Department, Ampang Hospital, Selangor

Chong Shiau Chin, Thomas Paraidathathu, Birinder Kaur
Clinical Impact of Empirical Antifungal Therapy on The Survival from Infection in Chemotherapy-Induced Febrile Neutropenic Adults Patients.
Hospital Ampang, Selangor.
LATIHAN ANJURAN JK R&D FARMASI SELANGOR JUN-DIS 2016

SESI LATIHAN PEMBENTANGAN ORAL DAN POSTER KAJIAN PENYELIDIKAN DAN PEMBANGUNAN

Tarikh:
Sesi pertama: 14 Julai 2016
Sesi kedua: 22 Julai 2016
Sesi ketiga: 2 Ogos 2016

Tempat:
Sesi pertama: Bilik Mesyuarat Cempaka, Wisma MBSA, JKNS
Sesi kedua & ketiga: Bilik Mesyuarat CRC, Hospital Sungai Buloh

Fasilitator:
Dr Kalaiarasu Peariasamy, (Ketua CRC, Hospital Sungai Buloh)
Dr Norizan Binti Rosli (Pengurus CRC, Hospital Sungai Buloh)

Peserta:
Sia Xin Ni (PKD Gombak)
Angeline Wong Su Li (PKD Klang)
Chong Pei Feng (Hospital Sungai Buloh)

Objektif:
1. Untuk memastikan format pembentangan oral dan poster adalah betul dan tepat.
2. Untuk megasah kemahiran pembentangan oral dan penyampaian hasil kajian dengan jelas.

Jawatankuasa R&D Farmasi Selangor merakamkan setinggi-tinggi penghargaan dan terima kasih kepada Unit CRC, Hospital Sungai Buloh dan semua yang terlibat dalam menjayakan sesi latihan ini samada secara langsung atau tidak langsung.

Diterbitkan oleh: JK Penyelidikan Dan Pembangunan (R&D) Farmasi Selangor
AKTIVITI R&D
DI PTJ NEGERI SELANGOR
(JUN—DISEMBER 2016)

Aktiviti : PRP Research Proposal Presentation
Tarikh : 12 Jun 2016

Aktiviti: Final Research Presentation (Drug Return)
Tarikh: 26 July 2016

Aktiviti : ECHO Training of Oral and Poster Presentation
Tarikh : 9 September 2016

Aktiviti : Annual Research Presentation (Oral and Research 2016), Pharmacy Department

Research is creating new knowledge.

Neil Armstrong
Special points of interest:

- Bengkel *Manuscript Writing* secara *‘hands on’* (Mac 2017)

- Bengkel Penyemakan Protokol dan Data Awal Kajian Penyelidikan (September 2017)

- Kursus *Qualitative Research* (September 2017)

- Latihan Pemantapan Pembentangan Oral & Poster Kajian Penyelidikan (sebelum pembentangan di persidangan)
INTRODUCTION

Health systems have multiple goals. The World Health Report 2000 defined overall health system outcomes or goals as: improving health and health equity, in ways that are responsive, financially fair, and make the best, or most efficient, use of available resources.

The national problems for priority areas were organized into five key functions of the health systems:

1. Service delivery
2. Governance (stewardship)
3. Manpower (human resource)
4. Financing and health economics
5. Information.

RESEARCH DOMAINS

The five domains for pharmacy health research priorities area for 2017-2020 are:

1. Improving the quality of and accessibility to health care
2. Further reduce burden of illness and shift to prevention & wellness model
3. Promoting healthy lifestyle
4. Empowerment
5. Health Technology