CRE REDUCE CENTRE FOR RESEARCH EXCELLENCE
Redefining Antimicrobial Use To Reduce Resistance

LAPKB
Laboratory of Applied
Pharmacokinetics &
Bioinformatics

POPULATION PK MODELLING AND DOSE OPTIMIZATION OF ANTIMICROBIALS: PMETRICS/BESTDOSE WORKSHOP

13 - 15th October 2016, Brisbane, Australia

CRE REDUCE was proud to present the above workshop at the picturesque St Lucia Campus at The University of Queensland, Brisbane, Australia. The workshop was organised by Prof Jason Roberts (The University of Queensland and Royal Brisbane and Women's Hospital) and Dr Claire Roger (The University of Queensland and CHU Nimes, France). The Workshop had an excellent faculty including three international speakers A/Prof Michael Neely (Laboratory of Applied Pharmacokinetics and Bioinformatics, The University of Southern California, USA), Prof William Hope (The University of Liverpool, UK) and Dr Catherine Byrne (Royal College of Surgeons Ireland).

Figure 1: St Lucia Campus, UQ

The Workshop was endorsed by the International Association of Therapeutic Drug Monitoring and Clinical Toxicology (IATDMCT), PK/PD Study Group within European Society of Clinical Microbiology and Infectious Diseases (ESCMID, EPASG) as well as the Critical Care Committee of Specialty Practice within the Society of Hospital Pharmacists of Australia (SHPA). Continuing Professional Development hours were accredited by the Australian Pharmacy Council (accreditation number S2016/77).

There were 32 participants and 8 faculty members present from 11 countries who were from a variety of professional backgrounds including pharmacy, infectious diseases, critical care, nephrology, industry. The structure of the workshop followed previous successful workshops supported by ESCMID that
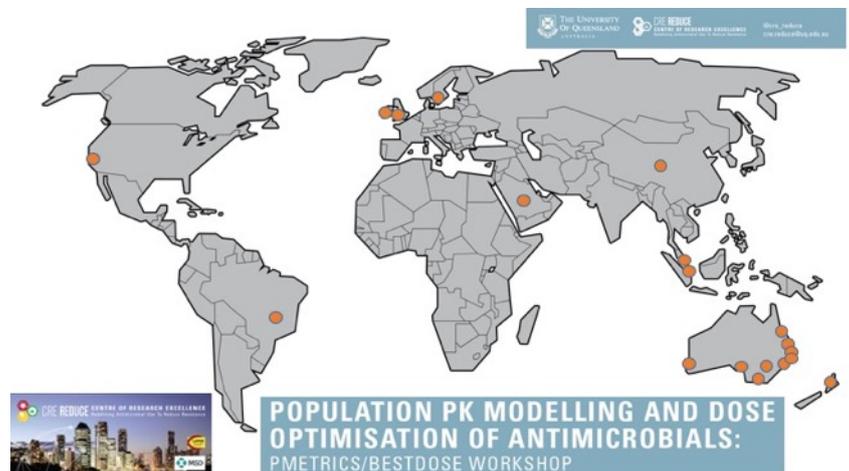

Figure 2 : Geographical origin of workshop participants

were run in Liverpool, UK (2014) and Lyon, France (2016). The continuity of having A/Prof Neely and Prof Hope was a key feature of the success of the present workshop. A/Prof Neely excellent teaching was a strong feature of all three workshops.

Figure 3: Workshop activity

Each participant came away with a much stronger knowledge of population pharmacokinetic modelling via the Pmetrics Software with some of the participants analysing their own data that they had brought with them to the course. Furthermore, the sessions on use of therapeutic drug monitoring and dose optimisation via adaptive feedback using the software BestDose brought a strong clinical relevance to the other research and analysis skills gained during the workshop. The evaluation of the course was very favourable with average scores out of 5 (Likert Scale) for the following criteria:

- Attending the CPD activity was worthwhile – 4.4/5
- The educational content of the CPD activity was of high quality – 4.3/5
- The sessions were well structured – 4.3/5
- The knowledge I gained on participating in this CPD activity will impact on my practice – 4.1/5
- The learning objectives were met – 4.3/5

Figure 3: Faculty members Hope, Neely, Byrne and Tsai

Figure 4: Networking dinner

To supplement the academic component of the workshop, a strong social program was also organized to provide opportunities for networking.

CRE REDUCE and the organisers are grateful to MSD for their financial support for this Workshop which enabled the presence of such a high quality Faculty.

CRE REDUCE also hopes to have further Workshops in the future to continue to build capacity in pharmacokinetic modelling and dose optimization of anti-infective compounds.

Funding/Support: