**2013 KSAP Refresher Course for Residents**

Date: September 7, 2013

Venue: Auditorium (1st floor) and 101 (PBL room, 1.5th floor), Yonsei University College of Medicine

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| Time | Room 243 | Time | Room 101\* |
|  | Basic pharmacology, pharmacogenetics, pharmacokinetics and pharmacodynamics  | Soonim Kim(Soonchunhyang University) |  | Asan pump |
| 09:00–09:30 | Signal transduction mechanism and receptor occupancy theory | Heeseung Lee (Ewha Womans University) | 09:00–09:40 | tpeak and Vdpeak | Taeha Ryu |
| 09:40–10:10 | Concept of pharmacogenetics and clinical application  | Helenki Shinn(Inha University) | 09:40–10:20 | Context sensitive decrement time |
| 10:10–10:25 | Coffee break |
| 10:20–10:40 | Coffee break |  |
| 10:25–10:55 | Basic pharmacological principles and population analysis | Gyujeong Noh(University of Ulsan) |
| 10:40–11:00 | Body size calculation and conversion of pharmacokinetic parameters | Seongheon Lee |
| 10:55–11:25 | Hysteresis and effect-site concentration | Taekyun Kim(Pusan National University) |
| 11:00–11:50 | Simulation of manual infusion and target-controlled infusion |
| 11:25–11:40 | Coffee break |
|  | Target-controlled infusion | Jungun Lee(Chungnam National University) |
| 11:40–12:10 | Linear pharmacokinetics and unit disposition function of plasma concentration | Teojeon Shin(Seoul National University) |
| 11:50–12:00 | Coffee break |
| 12:00–12:40 | Comparison of Marsh and Schnider models using simulation | Byungmoon Choi |
| 12:10–12:40 | Relationship between target-controlled infusion and population pharmacokinetic and pharmacodynamic analysis | Seongheon Lee (Chonnam National University)  |
| 12:40–14:00 | Lunch |
| 14:00–14:30 | Schnider and Marsh models for propofol, and Minto model for remifentanil | Seonghyop Kim(Konkuk University) | 14:00–15:00 | Simulation of fentanyl concentration using infusion history of patient controlled analgesia pump  | Jeongwoo Lee (Chonbuk National University) |
|  | Quantitative assessment of dose-response relationship | Sangkyi Lee (Chonbuk National University) |
| 14:30–15:00 | Bispectral index monitoring and dose-BIS relationship of anesthetic agents | Taeha Ryu (Daegu Catholic University) |
| 15:00–15:30 | Update of central nervous system monitors and dose-response relationships of anesthetic agents | Byungmoon Choi (University of Ulsan) | 15:00–15:20 | Coffee break |  |
| 15:20–16:20 | **Test† (a best scorer will be awarded 1,000,000 KRW)** | Taeha Ryu/ Byungmoon Choi |
| 15:30–15:50 | Coffee break |
| 15:50–16:20 | Quantitative dose-sedation scale relationship of sedatives/hypnotics | Heesoo Kim(Seoul National University) |
| 16:20–16:50 | Quantitative dose-response relationship of neuromuscular blocking agents | Sooil Lee (Donga University) | 16:20–16:50 | Q&A | Taeha Ryu / Byungmoon Choi |
| 16:50–17:00 | Ceremony of awarding a prize**†** and closing |
| \*: Participation will be limited in number (up to 30 persons) and all participants should have their own laptops for this workshop. |