Contents

Grand Round

553  Possible False-Negative Results on Therapeutic Drug Monitoring of Phenytoin Using a Particle Enhanced Turbidimetric Inhibition Immunoassay in a Patient With a High Level of IgM

Kenhiro Hirata, Junji Saruwatari, Yuhuki Enoki, Kazufumi Iwata, Yukino Urata, Keiji Aizawa, Kentaro Ueda, Takumi Shirouzono, Motoki Imamura, Hiroshi Morichi, Yu Ishima, Daishuke Kadowaki, Hiroshi Watanabe, Sumio Hirata, Toru Maruyama, and Eiko Fukanaga

556  Hypertriglyceridemia, Lipemia, and Elevated Liver Enzymes Associated With Prolonged Propofol Anesthesia for Craniotomy

Andrew Bowdle, Philippe Richebe, Lorri Lee, Robert Rostomily, and Patrik Gabikan

Review Article

560  Sensitivity and Specificity of EtG in Hair as a Marker of Chronic Excessive Drinking: Pooled Analysis of Raw Data and Meta-Analysis of Diagnostic Accuracy Studies

Rafael Boscolo-Berto, Donata Favretto, Giovanni Ceccheto, Marco Vincenti, Robert Kronstrand, S. Davide Ferrara, and Guido Viel

(continued next page)
Contents (continued)

**Original Articles**

**SDC 576** Plasma Concentrations of Tadalafil in Children With Pulmonary Arterial Hypertension
Hiroyuki Kohno, Fukiko Ichida, Keiichi Hirono, Sayaka Ozawa, Naoki Yoshimura, Tsuneuyuki Nakamura, Chisato Akita, Kazuya Ishida, and Masato Taguchi

**SDC 584** Predictive Performance of a Gentamicin Population Pharmacokinetic Model in Neonates Receiving Full-Body Hypothermia
Mario R. Sampson, Adam Prymoyer, Benjamin Rattray, C. Michael Cotten, P. Brian Smith, Edmund Capparelli, Sonia L. Bonifacio, and Michael Cohen-Wolkowiez

**590** Ibuprofen Concentrations in Human Mature Milk—First Data About Pharmacokinetics Study in Breast Milk With AOR-10127 “Antalait” Study
Virginie Rigourd, Brune de Villepin, Anmar Amirouche, Alexandra Bruneau, Patrick Seraissol, Aurelie Florent, Saik Urien, Jean-Francois Magny, and Raphael Serreau

Tracey Gous, Lewis Couchman, Jignesh P. Patel, Chitongo Paruzai, Roopen Arya, and Robert J. Flanagan

**606** Trough Concentration Over 12.1 mg/L is a Major Risk Factor of Vancomycin-Related Nephrotoxicity in Patients With Therapeutic Drug Monitoring

**612** Association of 2 Neurotrophic Factor Polymorphisms With Efficacy of Paroxetine in Patients With Major Depressive Disorder in a Chinese Population
Xin-Chen Wang, Du-Juan Xu, Gui-Hai Chen, Quan Xia, and Li-Na Liu

**OPEN 618** Effect of Smoking on the Pharmacokinetics of Inhaled Loxapine
Lori H. Takahashi, Keith Huie, Daniel A. Spyker, Robert S. Fishman, and James V. Cassella

**624** Point-of-Care Coagulation Testing for Assessment of the Pharmacodynamic Anticoagulant Effect of Direct Oral Anticoagulant
Helen Mani, Natalie Herth, Alexander Kasper, Thomas Wendt, Gundolf Schuettfort, Yvonne Weil, Waltraud Pfeilschifter, Birgit Linnemann, Eva Herrmann, and Edelgard Lindhoff-Last

(continued next page)
Contents (continued)

632  Comparison of Equations With Estimate Renal Function to Predict Serum
     Vancomycin Concentration in Patients With Spinal Cord Injury—Does the
     Use of Cystatin C Improve Accuracy?
     Douglas D. DeCarolis, Joey G. Thorson, Rebecca A. Marraffa, Megan A. Clairmont,
     and Michael A. Kaskowski

640  Multicenter Analytical Evaluation of the Automated Electrochemiluminescence
     Immunoassay for Cyclosporine
     Michael Vogeser, Maria Shipkova, Raül Rigo-Bonnin, Pierre Wallemacq, Matthias Orth,
     Monika Widmann, and Alain G. Verstraete

651  Effects of Genetic Polymorphisms of CYP2D6, CYP3A5, and ABCB1 on
     the Steady-State Plasma Concentrations of Aripiprazole and Its Active
     Metabolite, Dehydroaripiprazole, in Japanese Patients With Schizophrenia
     Takeshi Suzuki, Kazuo Mihara, Akifumi Nakamura, Shoko Kagawa, Goyo Nagai,
     Kenji Nemoto, and Tsuyoshi Kondo

656  Impact of Clinical Decision Support Guidelines on Therapeutic Drug
     Monitoring of Gentamicin in Newborns
     Caroline Fonzo-Christe, Bertrand Guignard, Claudia Zaugg, Ana Coehlo,
     Klara M. Posfay-Barbe, Alain Gervaix, Jules Desmeules, Victoria Rollason,
     Christophe Combescure, Regula Corbelli, Peter Rimensberger, Riccardo Pfister,
     and Pascal Bonnabry

663  A Specific and Sensitive HPLC–MS/MS Micromethod for Milrinone
     Plasma Levels Determination After Inhalation in Cardiac Patients
     Paul Gavra, Anne Q.-N. Nguyen, Yves Theoret, Catherine Litalien, André Y. Denault,
     and France Varin

669  Development of a Universal Anti-Adalimumab Antibody Standard for
     Interlaboratory Harmonization
     Ann Gils, Niels Vande Casteele, Raf Poppe, Marlies Van de Wouwer, Griet Compernolle,
     Miet Peeters, Els Brouwers, Séverine Vermeire, Nick Geukens, and Paul J. Declerck

Short Communications

674  Stability of Generic Meropenem Solutions for Administration by Continuous
     Infusion at Normal and Elevated Temperatures
     Loretta Franceschi, Piergiorgio Cojutti, Massimo Baraldo, and Federico Pea

677  Latex-Enhanced Turbidimetric Immunoassay for Everolimus in Whole
     Blood Using the Nanopia TDM Everolimus Assay With the JCA-BM6010
     Automatic Analyzer
     Keiko Mori, Shigeki Kimura, Masahiko Matsui, Etsuji Suehisa, Yoh Hidaka,
     and Norihide Fukushima

(continued next page)
Contents (continued)

681 Therapeutic Drug Monitoring of Levetiracetam: Comparison of a Novel Immunoassay With an HPLC Method
Vincenza Bianchi, Carlo Arﬁni, and Matteo Vidali

Letters to the Editor

686 Influence of Serum Separator Tubes on Mycophenolic Acid Concentrations Determined by HPLC
Michael O. Alberti, Alan M. Fukuchi, and Kathleen A. Kelly

687 Linezolid Underexposure in a Hypothyroid Patient on Levothyroxine Replacement Therapy: A Case Report
Federico Pea, Barbara Cadeo, Pier G. Cojutti, Davide Pecori, and Matteo Bassetti

689 Determination of Inosine Triphosphate Pyrophosphatase in Red Blood Cells Using HPLC: An Improved Method
Antony Citterio-Quentin, Sarah Long, Jean-Paul Salvi, Mustapha Mousma, and Roselyne Bouliou

Conversion Formula

Readers who want to convert drug concentrations to or from SI units may apply the following formulas.

To determine the conversion factor (CF): $CF = \frac{1000}{MW}$

To convert to SI units: $(\mu g/mL) \times CF = (\mu mol/L)$

To convert from SI units: $(\mu mol/L) \div CF = (\mu g/mL)$

Example: Phenytoin conversion

Conversion factor: $CF = \frac{1000}{252.3} = 3.96$

Conversion: $(39.6 \mu mol/L) \times 3.96 = (10 \mu g/mL) \times 3.96 = 39.6 \mu mol/L$

$(39.6 \mu mol/L) \div 3.96 = 10 \mu g/mL$