

Future titles of Clin Chem Lab Med, May 2024;62 (5)
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EDITORIAL

The International Consensus on ANA Patterns (ICAP): from conception to implementation

Jan Damoiseaux

<https://doi.org/10.1515/cclm-2023-1211>

REVIEW

Machine learning-based clinical decision support using laboratory data

Hikmet Can Çubukçu, Deniz İlhan Topcu, Sedef Yenice

<https://doi.org/10.1515/cclm-2023-1037>

MINI REVIEW

2023.1332

Standardisation and harmonisation of thyroid-stimulating hormone measurements: historical, current, and future perspectives

Ben Cowper, Alicia N. Lyle, Hubert W. Vesper, Katleen Van Uytfanghe and Chris Burns

<https://doi.org/10.1515/cclm-2023-1332>

OPINION PAPERS

Adopting the International Consensus on ANA Patterns (ICAP) classification for reporting: the experience of Italian clinical laboratories

Maria Infantino, Nicola Bizzaro, Wilson de Melo Cruvinel, Edward K.L. Chan, Luis E.C. Andrade

<https://doi.org/10.55/cclm-2023-0752>

Rising adoption of artificial intelligence in scientific publishing: evaluating the role, risks, and ethical implications in manuscript drafting and review process.

Anna Carobene, Andrea Padoan, Federico Cabitza, Giuseppe Banfi, Mario Plebani

<https://doi.org/10.55/cclm-2023-1336>

Biological variation of inflammatory and iron metabolism markers in high-endurance recreational athletes; are these markers useful for athlete monitoring?

Jorge Diaz-Garzon, Outi Itkonen, Aasne K. Aarsand, Sverre Sandberg, Abdurrahman Coskun, Anna Carobene, Niels Jonker, William A. Bartlett, Antonio Buño and Pilar Fernandez-Calle, on behalf of the European Federation of Clinical Chemistry and Laboratory Medicine Working Group on Biological Variation

<https://doi.org/10.1515/cclm-2023-1071>

GENERAL CLINICAL CHEMISTRY AND LABORATORY MEDICINE

A model for managing Quality Control for a network of clinical chemistry instruments measuring the same analyte

Jean-Marc Giannoli, Mathieu Bernard, Julien L'Hirondel, André Heim, Tony Badrick

<https://doi.org/10.1515/cclm-2023-0965>

Impact of academia–government collaboration on laboratory medicine standardization in South Korea: analysis of 8 years creatinine proficiency testing experience

Seunghoo Lee, Joonsang Yu, Chan-Ik Cho, Eun-Jung Cho, Tae-Dong Jeong, Sollip Kim, Woochang

Lee, Sail Chun, Won-Ki Min <https://doi.org/10.1515/cclm-2023-1160>

Measurement uncertainty estimation of free drug concentrations in clinical laboratories using equilibrium dialysis

Raúl Rigo-Bonnin, Virgínia Mas-Bosch, Francesca Canalias

<https://doi.org/10.1515/cclm-2023-1023>

Use of dried blood spots for monitoring inflammatory and nutritional biomarkers in the elderly

Jérôme Vialaret, Margaux Vignon, Christophe Hirtz1, Stéphanie Badiou, Gregory Baptista, Laura Fichter, Anne-Marie Dupuy, Aleksandra Maleska Maceski, Martin Fayolle, Mehdi Brousse, Jean-

Paul Cristol, Claude Jeandel, Sylvain Lehmann <https://doi.org/10.1515/cclm-2023-0312>

S100B vs. “GFAP and UCH-L1” assays in the management of mTBI patients

Charlotte Oris, Jean-Baptiste Bouillon-Minois, Samy Kahouadji, Bruno Pereira, Gabriel Dhaiby, Valentin Bailly Defrance, Julie Durif, Jeannot Schmidt, Farès Moustafa, Damien Bouvier, Vincent

Sapin <https://doi.org/10.1515/cclm-2023-1238>

Evaluation of five multiteroid LC–MS/MS methods used for routine clinical analysis: comparable performance was obtained for nine analytes

Valentin Brauna, Uta Ceglarekc, Alexander Gaudlc, Joanna Gawineckad, Daniel Müllerde, Manfred Rauhf, Matthias Weberg and Christoph Seger

<https://doi.org/10.1515/cclm-2023-0847>

Ensuring quality in 17OHP mass spectrometry measurement: an international study assessing isomeric steroid interference

Chung Shun Ho, Kirsten Hoad, Brian R. Cooke, Trisha Andersen, Peter Graham, Sjoerd A.A. van den Berg, Michaela F. Hartmann, Clara W.S. Lo, Tze Ping Loh, Yolanda B. de Rijke, Bertrand D. van Zelst, Stefan A. Wudy, Rosita Zakaria, Ronda F. Greaves

<https://doi.org/10.1515/cclm-2023-0864>

A novel LC-MS/MS-based assay for the simultaneous quantification of aldosterone-related steroids in human urine

Nora Vogg, Lydia Kürzinger, Sabine Kendl, Christina Pamporaki, Graeme Eisenhofer, Christian Adolf, Stefanie Hahner, Martin Fassnacht, Max Kurlbaum

<https://doi.org/10.1515/cclm-2023-0250>

Clinical specificity of two assays for immunoglobulin Kappa and Lambda free light chains

Christopher W. Farnsworth, Brittany Roemmich, Grant M. Spears, David L. Murray, Angela

Dispenzieri, Maria Alice V. Willrich <https://doi.org/10.1515/cclm-2023-0912>

REFERENCE VALUES AND BIOLOGICAL VARIATIONS

Estimation of the Reference Values and Decision Limits for Growth Hormone in Newborns Using Dried Blood Spots

Matteo Vidali, Federico Giacchetti, Andrea Sangiorgio, Chiara Vantaggiato, Giulia Rodari, Chiara Orsenigo, Adriana Di Modugno, Filomena Napolitano, Daniela Morniroli, Lorenzo Colombo, Eriselda Profka, Giulia Vizzari, Fabio Mosca, Ferruccio Ceriotti, Giovanna Mantovani, Maura

Arosio, Maria L. Gianni, Claudia Giavoli <https://doi.org/10.1515/cclm-2023-0972>

Reference intervals of 24 trace elements in blood, plasma and erythrocytes for the Slovenian adult population

Alenka France Štiglic, Ingrid Falnoga, Alenka Sešek Briški, Marko Žavbi, Joško Osredkar, Milan Skitek, Janja Marc

<https://doi.org/10.1515/cclm-2023-0731>

HEMATOLOGY AND COAGULATION

Detection of blasts using flags and cell population data rules on Beckman Coulter DxH 900 hematology analyzer in patients with hematologic diseases

Hanah Kim, Mina Hur, Jong-Ho Yi, Gun-Hyuk Lee, Seungho Lee, Hee-Won Moon, and Yeo-Min Yun

<https://doi.org/10.1515/cclm-2023-0932>

CANCER DIAGNOSTICS

Drainage fluid LDH and neutrophil to lymphocyte ratio as biomarkers for early detecting anastomotic leakage in patients undergoing colorectal surgery

Luisa Agnello, Salvatore Buscemi, Giuseppe Di Buono, Matteo Vidali, Bruna Lo Sasso, Antonino Agrusa, Marcello Ciaccio

<https://doi.org/10.1515/cclm-2023-1164>

CARDIOVASCULAR DISEASES

Performance evaluation of a novel high-sensitivity cardiac troponin T assay: analytical and clinical perspectives

Zhongxin Li, Shuo Yang, Jiao Qiao, Yuan Tan, Qi Liu, Boxin Yang, Weimin Feng, Liyan Cui

<https://doi.org/10.1515/cclm-2023-0789>

DIABETES

Ferric particle-assisted LDI-MS platform for metabolic fingerprinting of diabetic retinopathy

Yu Liu, Yihan Wang, Xu Wan, Hongtao Huang, Jie Shen, Bin Wu, Lina Zhu, Beirui Wu, Wei Liu, Lin Huang, Kun Qian, Jing Ma

<https://doi.org/10.1515/cclm-2023-0775>

INFECTIOUS DISEASES

Thrombopoietin levels in sepsis and septic shock – a systematic review and meta-analysis

Chang Liu, Dennis Görlich, Clifford A. Lowell, Joseph E. Italiano, Jan Rossaint, Markus Bender, Alexander Zarbock, Andreas Margraf

<https://doi.org/10.1515/cclm-2023-0792>

Effect of Temperature on Presepsin Pre-analytical Stability in Biological Fluids of Preterm and Term Newborns

Ebe D'Adamo, Valentina Botondi, Luigi Falconio, Giardinelli Giustina, Patrizia Di Gregorio, Sergio Caputi, Bruna Sinjari, Oriana Trubiani, Tonino Traini, Francesca Gazzolo, Chiara Strozzi, Antonio Maconi and Diego Gazzolo

<https://doi.org/10.1515/cclm-2023-1282>

LETTERS TO THE EDITORS

Pseudohyperglycemia due to glucometer interference in galactosemia

Bram Decru, Hilde Blanckaert, Gunnar Naulaers, Christine Vanhole, Daisy Rymen, Peter Witters, Inge Van Wambeke, Pieter Gillard, Pieter Vermeersch

<https://doi.org/10.1515/cclm-2023-1304>

What could cause a false increase in serum C-reactive protein concentration ?

Mélanie Bouillon, David Guénet, Sylvie Dargère and Stéphane Allouche

<https://doi.org/10.1515/cclm-2023-1196>

Discriminating signal from noise: the biological variation of circulating calprotectin in serum and plasma

Marth Briers, Bo Massa, Bert Vander Cruyssen, Stefanie Van Den Bremt, Laura Hofman, Leen Van Langenhove, Bernhard Hoermann, Xavier Bossuyt, Lieve Van Hoovels

<https://doi.org/10.1515/cclm-2023-1126>

Diagnostic accuracy of adenosine deaminase for tuberculous pleural effusion: age does matter

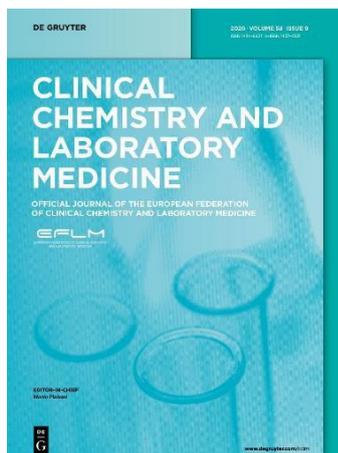
Wen Zhao, Ting-Wang jiang, Wen-Qi Zheng, Zhi-De Hu

<https://doi.org/10.1515/cclm-2023-0916>

The role of the Brazilian Proficiency Testing/External Quality Assessment Program in the improvement of glycated hemoglobin measurement

Claudio Bastos, Nairo M. Sumita, Adriana O. Vieira, Maria Elizabete Mendes, Rafael M. Lopes, Rafael N. Moresco, Katia Nery, Bruno C. A. Souto-Santos, Fábio V. Brazão and José Antonio T. Poloni

<https://doi.org/10.1515/cclm-2023-1207>



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REVIEW

Neurofilament light protein as a biomarker for spinal muscular atrophy: a review and reference ranges

Sherif Bayoumy, Inge M.W. Verberk, Lisa Vermunt, Eline Willemse, Ben den Dulk, A. T. van der Ploeg, Dasja Pajkrt, Elisa Nitz, J.M.P. van den Hout, Julie van der Post, Nicole I Wolf, Shanice Beerepoot, Ewout J.N. Groen, Victoria Tüngler, Charlotte E. Teunissen

<https://doi.org/10.1515/cclm-2023-1311>

MINI REVIEW

Differential diagnosis of ascites: etiologies, ascitic fluid analysis, diagnostic algorithm

Li Du, Ning Wei, Rakhi Maiwall, Yuhu Song

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OPINION PAPERS

Clinical Decision Support System in Laboratory Medicine

Emilio Flores, Laura Martínez-Racaj, Ruth Torreblanca, Alvaro Blasco, Maite Lopez-Garrigós, Irene Gutierrez and Maria Salinas

<https://doi.org/10.1515/cclm-2023-1239>

Blood over-testing: impact, ethical issues and mitigating actions

Federico Pennestrì, Rossella Tomaiuolo, Giuseppe Banfi and Alberto Dolci

<https://doi.org/10.1515/cclm-2023-1227>

GENERAL CLINICAL CHEMISTRY AND LABORATORY MEDICINE

An isotope dilution-liquid chromatography-tandem mass spectrometry (ID-LC-MS/MS)-based candidate reference measurement procedure for the quantification of zonisamide in human serum and plasma

Tobias Schierscher, Linda Salzmann, Neeraj Singh, Janik Wilda, Vanessa Fischer, Friederike Bauland, Andrea Geistanger, Lorenz Rischa, Christian Geletneky, Christoph Segera, Judith Taibon

<https://doi.org/10.1515/cclm-2023-0736>

An isotope dilution-liquid chromatography-tandem mass spectrometry (ID-LC-MS/MS)-based candidate reference measurement procedure for the quantification of carbamazepine in human serum and plasma

Tobias Schierscher, Linda Salzmann, Neeraj Singh, Martina Bachmann, Friederike Bauland, Andrea Geistanger, Lorenz Risch, Christian Geletneky, Christoph Seger, Judith Taibon

<https://doi.org/10.1515/cclm-2023-0943>

An isotope dilution-liquid chromatography-tandem mass spectrometry (ID-LC-MS/MS)-based candidate reference measurement procedure (RMP) for the quantification of phenobarbital in human serum and plasma

Tobias Schierscher, Linda Salzmann, Neeraj Singh, Martina Bachmann, Anja Kobel, Janik Wild, Friederike Bauland, Andrea Geistanger, Lorenz Risch, Christian Geletneky, Christoph Seger, Judith Taibon

<https://doi.org/10.1515/cclm-2023-1104>

Should we depend on reference intervals from manufacturer package inserts? Comparing TSH and FT4 reference intervals from four manufacturers with results from modern indirect methods and the direct method

Niek F. Dirks, Wendy P.J. den Elzen, Jacquelin J. Hillebrand, Heleen I. Jansen, Edwin ten Boekel, Jacqueline Brinkman, Madelon M. Buijs, Ayse Y. Demir, Ineke M. Dijkstra, Silvia C. Endenburg, Paula Engbers, Jeannette Gootjes, Marcel J.W. Janssen, Wilhelmina H.A. Kniest-de Jong, Maarten B. Kok, Stephan Kamphuis, Adrian Kruit, Etienne Michielsen, Albert Wolthuis, Anita Boelen and Annemieke C. Heijboer

<https://doi.org/10.1515/cclm-2023-1237>

Comparison of three chatbots as an assistant for problem-solving in clinical laboratory

Sedat Abusoglu, Muhittin Serdar, Ali Unlu and Gulsum Abusoglu

<https://doi.org/10.1515/cclm-2023-1058>

Evidence-based cutoffs for total and adjusted calcium: a major factor in detecting severe hypo- and hypercalcemia

Maria Schmidt, Daniel Steinbach, Martin Federbusch, Anke Tönjes, Berend Isermann, Thorsten Kaiser, Felix Eckelt <https://doi.org/10.1515/cclm-2023-0805>

Minor head injury in anticoagulated patients: performance of biomarkers S100B, NSE, GFAP, UCH-L1 and Alinity TBI in the detection of intracranial injury. A prospective observational study

Menditto VG, Moretti M, Babini L, Mattioli A, Giuliani AR, Fratini M, Pallua FY, Andreoli E, Nitti C, Contucci S, Gabrielli A, Rocchi M, Pomponio G

<https://doi.org/10.1515/cclm-2023-1169>

A comparative evaluation of the analytical performances of premier resolution high-performance liquid chromatography (PR-HPLC) with capillary zone electrophoresis (CZE) assays for the detection of hemoglobin variants and the quantitation of HbA0, A, E, and F

Sirikwan Laksap, Suphisara Suanboon, Manoo Punyamung, Chedtapak Ruengdit, Sakorn

Pornprasert <https://doi.org/10.1515/cclm-2023-1458>

Get reliable laboratory findings - How to recognize the deceptive effects of angiotensin-converting enzyme inhibitor therapy in the laboratory diagnostics of sarcoidosis?

Attila Ádám Szabó, Enikő Edit Enyedi, István Tibor Altorjay, Péter Hajnal, Tamás Bence Pintér, Ivetta Siket Mányiné, Csongor Váradi, Emese Bányai, Attila Tóth, Zoltán Papp, Miklós Fagyas

<https://doi.org/10.1515/cclm-2023-1288>

REFERENCE VALUES AND BIOLOGICAL VARIATIONS

Vitamin D and vitamin K status in postmenopausal women with normal and low bone mineral density

Sieglinde Zelzer, Andreas Meinitzer, Dietmar Enko, Konstantinos Markis, Symeon Tournis, Ioulia Trifonidi, Efstathios Chronopoulos, Loukia Spanou, Nerea Alonso, Martin Keppel and Markus Herrmann

<https://doi.org/10.1515/cclm-2023-1443>

HEMATOLOGY AND COAGULATION

An automatic analysis and quality assurance method for lymphocyte subset identification

My Zhang, Gao, Shiyuan; Zhu, Min; Pan, Jianhua

<https://doi.org/10.1515/cclm-2023-1141>

CANCER DIAGNOSTICS

Machine Learning-Based Delta Check Method for Detecting Misidentification Errors in Tumor Marker Tests

Hyeon Seok Seok, Yuna Choi, Shinae Yu, Kyung-Hwa Shin, Sollip Kim, Hangsik Shin

<https://doi.org/10.1515/cclm-2023-1185>

CARDIOVASCULAR DISEASES

Analytical evaluation of the novel Mindray high sensitivity cardiac troponin I immunoassay on CL-1200i

Giuseppe Lippi, Laura Pighi, Elisa Paviati, Davide Demonte, Simone De Nitto, Matteo Gelati, Martina Montagnana, Giorgio Gandini, Brandon M. Henry, Gian Luca Salvagno

<https://doi.org/10.1515/cclm-2023-1448>

INFECTIOUS DISEASES

A reactive monocyte subset characterized by low expression of CD91 is expanded during sterile and septic inflammation

Christian Gosset, Jacques Foguene, Mickaël Simul, Nathalie Layios, Paul B. Massion, Pierre Damas, André Gothot

<https://doi.org/10.1515/cclm-2023-0992>

LETTERS TO THE EDITORS

Inadvertent omission of a specimen integrity comment — an overlooked post-analytical error

Raffick A.R. Bowen and Leighton H. Daigh <https://doi.org/10.1515/cclm-2023-1445>

Falsely elevated T3 due to interference of anti-T3 autoantibodies: a case report

Jing Jina, Tingting Liua, Zhongyan Shana, Weiping Tenga, Jing Lia, Xiaochun Teng

<https://doi.org/10.1515/cclm-2023-1344>

Validation of the Siemens Atellica cortisol immunoassay compared to liquid chromatography mass spectrometry in adrenal venous sampling for primary hyperaldosteronism

Eliane F.E. Wenstedt, Bertrand D. van Zelst, N.R. Amir Paula, Sjoerd A.A. van den Berg

<https://doi.org/10.1515/cclm-2023-0978>

Lessons learned from site-specific sampling and biological half-life of IGFII and IIE(68-88) peptide: a case study

Anneke C. Muller Kobold, Jacco J. de Haan, Reinoud P.H. Bokkers, Simeon J.S. Ruiten, Marius C. van den Heuvel, Eef G.W.M. Lentjes, Daan J. Touw, Koert P. de Jong

<https://doi.org/10.1515/cclm-2023-1031>

The added value of automated HPC count: detecting clinically important interferences on the flow cytometric CD34+ cell count

Alice Brochier, Mattias Hofmans, Stijn Lambrecht, Pauline Breughe, Barbara Denys, Sander De Bruyne, Malicorne Buysse, Anna Vantilborgh and Carolien Bonroy

<https://doi.org/10.1515/cclm-2023-0601>

Clinical Pilot Study on Microfluidic Automation of IGH-VJ Library Preparation for Next Generation Sequencing

Jacob F. Hess, Michaela Kotrová, Birgit Fricke, Simona Songia, Silvia Rigamonti, Roberta Cavagna, Manuela Tosi, Nils Paust, Anton W. Langerak, Orietta Spinelli, Giovanni Cazzaniga, , Monika Brüggemann, Tobias Hutzenlaub, on behalf of the EuroClonality-NGS Working Group

<https://doi.org/10.1515/cclm-2023-1446>

Long-term effects of interventions applied to optimize the use of 25-OH vitamin D tests in primary health care

Lillo, Serena; Larsen, Trine; Pennerup, Leif; Kyvik, Kirsten; Søndergaard, Jens; Antonsen, Steen

<https://doi.org/10.1515/cclm-2023-1098>