

Future titles of Clin Chem Lab Med, January 2021;59 (1)
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EDITORIAL

Measurement uncertainty and the importance of correlation

Ian Farrance and Robert Frenkel

<https://doi.org/10.1515/cclm-2020-1205>

REVIEWS

Untangling the association between prostate-specific antigen and diabetes: a systematic review and meta-analysis

Mari Carmen Bernal-Soriano, Blanca Lumbreras, Ildefonso Hernández-Aguado, María Pastor-Valero, Maite López-Garrigos and Lucy A. Parker

<https://doi.org/10.1515/cclm-2020-01455>

The emerging role of cell senescence in atherosclerosis

Chang-Meng Wu, Lei Zheng, Qian Wang and Yan-Wei Hu

<https://doi.org/10.1515/cclm-2020-0601>

MINI REVIEW

Minimum retesting intervals in practice: 10 years experience

Tim Lang

<https://doi.org/10.1515/cclm-2020-0660>

OPINION PAPERS

Cardiotoxic effects and myocardial injury: the search for a more precise definition of drug cardiotoxicity

Daniela Maria Cardinale, Martina Zaninotto, Carlo Maria Cipolla, Claudio Passino, Mario Plebani, Aldo Clerico

<https://doi.org/10.1515/cclm-2020-0566>

EFLM PAPERS

The CRESS Checklist for Reporting Stability Studies: on behalf of the European Federation of Clinical Chemistry and Laboratory Medicine (EFLM) Working Group for the Preanalytical Phase (WG-PRE)

Michael Cornes, Ana-Maria Simundic, Janne Cadamuro, Seán J Costelloe, Geoffrey Baird, Gunn BB Kristensen, Alexander von Meyer, Mads Nybo and Rubén Gómez Rioja, on behalf of the Working Group for the Preanalytical Phase (WG-PRE), of the European Federation of Clinical Chemistry and Laboratory Medicine (EFLM)

<https://doi.org/10.1515/cclm-2020-0061>

Thoughts and expectations of young professionals about the European Federation of Clinical Chemistry and Laboratory Medicine (EFLM)

Josep Miquel Bauça, Claudia E. Imperiali, Juan Robles, Jorge Díaz-Garzón, Dora Vuljanic, Ermin Begovic, Aleksei Tikhonov, Lejla Alic, Ana Nikler, Ana Maria Simundic

<https://doi.org/10.1515/cclm-2020-0717>

GUIDELINES AND RECOMMENDATIONS

Evidence on clinical relevance of cardiovascular risk evaluation in the general population using cardio-specific biomarkers

Document endorsed by the Italian Societies of Laboratory Medicine ELAS-Italia (European Ligand Assay Society) and SIBioC (Società Italiana Biochimica Clinica), the Italian Society of Cardiology ANMCO (Associazione Nazionale Medici Cardiologi Ospedalieri), and the Italian Scientific Society of Family Medicine SNAMI (Sindacato Nazionale Autonomo Medici Italiani)

Aldo Clerico, Martina Zaninotto, Claudio Passino, Nadia Aspromonte, Massimo Francesco Piepoli, Marco Migliardi, Marco Perrone, Antonio Fortunato, Andrea Padoan, Angelo Testa, Franco Dellarole, Tommaso Trenti, Sergio Bernardini, Laura Sciacovelli, Furio Colivicchi, Domenico Gabrielli and Mario Plebani

<https://doi.org/10.1515/cclm-2020-0310>

GENETICS AND MOLECULAR DIAGNOSTICS

A systematic evaluation of stool DNA preparation protocols for colorectal cancer screening via analysis of DNA methylation biomarkers

Shengnan Jin, Qian Ye, Yanping Hong, Wenqing Dai, Chengliang Zhang, Weihao Liu, Ying Guo, Dewen Zhu, Zhengzheng Zhang, Shiliang Chen, Yourong Wang, Dandan Li, Wen Ma, Zhengquan Yang, Jinlei Li, Zhihai Zheng, Ju Luan, Xiaoli Wu, Feizhao Jiang, Chang Xu, Chunming Ding

<https://doi.org/10.1515/cclm-2020-0300>

GENERAL CLINICAL CHEMISTRY AND LABORATORY MEDICINE

The new IVD Regulation 2017/746: a case study at a large university hospital laboratory in Belgium demonstrates the need for clarification on the degrees of freedom laboratories have to use lab-developed tests to improve patient care

Pieter Vermeersch, Tobias Van Aelst, Elisabeth M.C. Dequeker

<https://doi.org/10.1515/cclm-2020-0804>

Evaluation of serum electrolytes measurement through the 6-year trueness verification program in China

Ying Yan, Yungang Pu, Jie Zeng, Tianjiao Zhang, Weiyan Zhou, Jiangtao Zhang, Jing Wang, Chao Zhang, Wenxiang Chen and Chuanbao Zhang <https://doi.org/10.1515/cclm-2020-0355>

Feasibility for aggregation of commutable external quality assessment results to evaluate metrological traceability and agreement among results

Eline van der Hagen, Cas Weykamp, Sverre Sandberg, Anne V. Stavelin, Finlay MacKenzie, W. Greg Miller

<https://doi.org/10.1515/cclm-2020-0736>

Sample size and rejection limits for detecting reagent lot variability: analysis of the applicability of the CLSI EP26-A protocol to real-world clinical chemistry data

Sollip Kim, Jeonghyun Chang, Soo-Kyung Kim, Sholhui Park, Jungwon Huh and Tae-Dong Jeong

<https://doi.org/10.1515/cclm-2020-0454>

Effects of calcium dobesilate interference on serum creatinine measurements: a national EQA-based educational survey of drug-laboratory test interactions

Tianjiao Zhang, Xiuzhi Guo, Li'an Hou, Haijian Zhao, Rong Ma, Liangyu Xia, Honglei Li, Tingting You, Ling Qiu, Chuanbao Zhang

<https://doi.org/10.1515/cclm-2020-0424>

Mass spectrometric sample identification with indicator compounds introduced via labeled sample tubes

Running head: Sample-inherent labeling with indicator compounds

Michael Paal, Katharina Habler, Michael Vogeser

<https://doi.org/10.1515/cclm-2020-0667>

Automation and validation of a MALDI-TOF MS (Mass-Fix) replacement of immunofixation electrophoresis in the clinical lab

Mindy Kohlhagen, Surendra Dasari, Maria Willrich, MeLea Hetrick, Brian Netzel, Angela Dispenzieri and David L. Murray

<https://doi.org/10.1515/cclm-2020-0581>

A new strategy implementing mass spectrometry in the diagnosis of congenital disorders of N-glycosylation (CDG)

Bruno Casetta, Sabrina Malvagia, Silvia Funghini, Diego Martinelli, Carlo Dionisi-Vici, Rita Barone, Agata Fiumara, Maria Alice Donati, Renzo Guerrini and Giancarlo la Marca

<https://doi.org/10.1515/cclm-2020-0650>

Analytical evaluation of four faecal immunochemistry tests for haemoglobin

Carolyn Piggott, Magdalen R.R. Carroll, Cerin John, Shane O'Driscoll and Sally C. Benton

<https://doi.org/10.1515/cclm-2020-0251>

REFERENCE VALUES AND BIOLOGICAL VARIATIONS

Study of total error specifications of lymphocyte subsets enumeration using China National EQAS data and Biological Variation Data Critical Appraisal Checklist (BIVAC)-compliant publications

Chenbin Li, Yu Wang, Hong Lu, Zhongli Du, Chengshan X and Mingting Peng

<https://doi.org/10.1515/cclm-2020-0741>

**Mass spectrometric quantification of urinary 6-sulfatoxymelatonin:
age-dependent excretion and biological variation**

Martijn van Faassen, Anna van der Veen, Sonja van Ockenburg, Helma de Jong, Elisabeth G.E. de Vries and Ido P. Kema

<https://doi.org/10.1515/cclm-2020-0455>

Establishment of international autoantibody reference standards for the detection of autoantibodies directed against PML bodies, GW bodies, and NuMA protein

Bing Zheng, Rodrigo A. Mora, Marvin J. Fritzler, Minoru Satoh, Donald B. Bloch, Ignacio Garcia-De La Torre, Katherine Boylan, Kathryn Kohl, Mark H. Wener, Luis E. C. Andrade,, Edward K. L. Chan

<https://doi.org/10.1515/cclm-2020-0981>

HEMATOLOGY AND COAGULATION

Appropriate thresholds for accurate screening for β -thalassemias in the newborn period: results from a French center for newborn screening

Bichr Allaf , Corinne Pondarre, Slimane Allali, Mariane De Montalembert, Cécile Arnaud, Catherine Barrey, Malika Benkerrou, Patricia Benhaim, Philippe Bensaid, Valentine Brousse, Catherine Dollfus, Stéphanie Eyssette-Guerreau, Frédéric Galacteros, Vincent Gajdos, Nathalie Garrec, Cécile Guillaumat¹³, Corinne Guitton, Marie-Christine Monfort-Gouraud, François Gouraud, Laurent Holvoet, Ghislaine Ithier, Annie Kamdem, Bérengère Koehl⁵, Aurore Malric, Florence Missud, Brigitte Monier, Marie-Hélène Odivèvre, Philippe Joly , Céline Renoux , Franck Patin , Serge Pissard and Nathalie Couque

<https://doi.org/10.1515/cclm-2020-0803>

CARDIOVASCULAR DISEASES

Analysis of B-type natriuretic peptide impurities using label-free data-independent acquisition mass spectrometry technology

Peng Xiao, Fan Zhang, Xinxue Wang, Dewei Song, Hongmei Li

<https://doi.org/10.1515/cclm-2020-0012>

DIABETES

Hemoglobin variants in southern China: results obtained during the measurement of glycated hemoglobin in a large population

Anping Xu, Weidong Chen, Weijie Xie, Yajun Wang and Ling Ji

<https://doi.org/10.1515/cclm-2020-0767>

Potential of MALDI-TOF mass spectrometry to overcome the interference of hemoglobin variants on HbA_{1c} measurement

Anping Xu, Weijie Xie, Yajun Wang, and Ling Ji

<https://doi.org/10.1515/cclm-2020-0724>

LETTERS TO THE EDITORS

Measurement uncertainty estimation for derived biological quantities

Raúl Rigo-Bonnin and Francesca Canalias

<https://doi.org/10.1515/cclm-2020-1003>

Non-reproducible cardiac troponin results occurring with a particular reagent lot

Julien Favresse, Julie Cadrobbi, Christine Eucher, Kim Laffineur, Catherine Rosseels, Denis Pieters, Marc Elsen and Jeremie Gras

<https://doi.org/10.1515/cclm-2020-0562>

Successfully meeting analytical expectations for the fast 0/-h algorithm for NSTEMI by internal control procedures for cardiac troponin T

Wendy Endlich, Willemina J. Mensink, Wendy P.J. den Elzen, Laurens F. Tops, Christa M. Cobbaert

<https://doi.org/10.1515/cclm-2020-0055>

Performance of perpendicular drop versus tangent skimming gating of M-protein in proficiency testing challenges

Maria A. V. Willrich, Thomas A. Long, Christine Bashleben, Susan L. Fink, Joseph W. Rudolf, Daniel Peterson, Mark H. Wener, Richard J. Baltaro, Jonathan R. Genzen, Mohammad Qasim Ansari, Daniel D. Rhoads and Michael A. Linden

<https://doi.org/10.1515/cclm-2020-0697>

Assessment of intraindividual agreement in prolactin results after post-polyethylene glycol precipitation test for the estimation of macroprolactin. Should the precipitation procedure be repeated in the same patient?

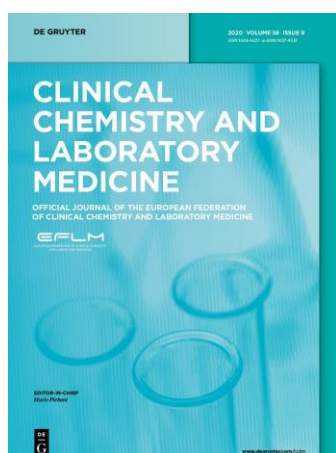
Maria-Luisa Granada, Jimenez-Anon, Laura; Barallat, Jaume; Regidor, Diana; Urgell, Eulalia; Doladé, María

<https://doi.org/10.1515/cclm-2020-0858>

AGGREGATION KINETIC AND TEMPERATURE OPTIMUM OF AN EDTA-DEPENDENT PSEUDO-THROMBOCYTOPENIA

AYED ASMA, SETTHOM ANISSA, KHELIFI TOUHAMI

<https://doi.org/10.1515/cclm-2020-0128>



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EDITORIAL

Assuring the quality of examinations using faecal immunochemical tests for haemoglobin (FIT)

Callum G. Fraser

<https://doi.org/10.1515/cclm-2020-1509>

REVIEW

Capillary electrophoresis based on nucleic acid analysis for diagnosing inherited disease

Dong-Sheng Lian, Xiang-Yuan Chen, Hua-Song Zeng, Yan-Yi Wang

<https://doi.org/10.1515/cclm-2020-0186>

MINI REVIEWS

Negative hair test result after long-term drug use. About a case involving morphine and literature review

Pascal Kintz

<https://doi.org/10.1515/cclm-2020-0950>

Prorenin and active renin levels in paediatrics: bioanalytical review

Ilja Burdman and Bjoern Burckhardt

<https://doi.org/10.1515/cclm-2020-0857>

OPINION PAPER

From therapeutic drug monitoring to total drug monitoring and drug-omics

Michael Vogeser

<https://doi.org/10.1515/cclm-2020-03339>

PERSPECTIVES

The internal quality control in the traceability era

Federica Braga, Sara Pasqualetti, Elena Aloisio, Mauro Panteghini

<https://doi.org/10.1515/cclm-2020-0371>

GENETICS AND MOLECULAR DIAGNOSTICS

External quality assessment (EQA) and alternative assessment procedures (AAP) in molecular diagnostics: findings of an international survey

Deborah A. Payne, Graciela Russomando, Mark W. Linder, Katarina Baluchova, Tester Ashavaid, Werner Steimer, Parviz Ahmad-Nejad and the IFCC Committee for Molecular Diagnostics (C-MD)

<https://doi.org/10.1515/cclm-2020-0101>

GENERAL CLINICAL CHEMISTRY AND LABORATORY MEDICINE

Optimizing hepcidin measurement with a proficiency test framework and standardization improvement

Ellis Aune, Laura E. Diepeveen, Coby M.M. Laarakkers, Siem Klaver, Andrew E Armitage, Sukhi Bansal, Michael Chen, Marianne Fillet, Huiling Han, Matthias Herkert, Outi Itkonen, Daan van der Kerkhof, Alexandria Krygier, Thibaud Lefebvre, Peter Neyer, Markus Rieke, Naohisa Tomosugi, Cas W. Weykamp, and Dorine W. Swinkels

<https://doi.org/10.1515/cclm-2020-0928>

Development of a certified reference material for anti- β 2-glycoprotein I IgG – commutability studies

Evanthia Monogioudi, Gustavo Martos, Joanna Sheldon, Pier Luigi Meroni, Stefanie Trapmann and Ingrid Zegers

<https://doi.org/10.1515/cclm-2020-0995>

Influence of patients' clinical features at intensive care unit admission on performance of cell cycle arrest biomarkers in predicting acute kidney injury

Bo Yang, Yun Xie, Francesco Garzotto, Ghada Ankawi, Alberto Passanant, Alessandra Brendolan, Raffaele Bonato, Mariarosa Carta, Davide Giavarina, Enrico Vidal, Gregori Dario and Claudio Ronco

<https://doi.org/10.1515/cclm-2020-0670> 931

Efficacy of weekly administration of cholecalciferol on parathyroid hormone in stable kidney-transplanted patients with CKD stage 1-3

Stefania Sella, Luciana Bonfante, Maria Fusaro, Flavia Neri, Mario Plebani, Martina Zaninotto, Andrea Aghi, Georgie Innico, Giovanni Tripepi, Alberto Michielin, Tancredi Prandini, Lorenzo A. Calò, Sandro Giannini

<https://doi.org/10.1515/cclm-2020-0282>

Plasma metanephrines and prospective prediction of tumor location, size and mutation type in patients with pheochromocytoma and paraganglioma

Graeme Eisenhofer, Timo Deutschbein, Georgiana Constantinescu, Katharina Langton, Christina Pamporaki, Bruna Calsina, Maria Monteagudo, Mirko Peitzsch, Stephanie Fliedner, Henri JLM Timmers, Nicole Bechmann, Maria Fankhauser, Svenja Nölting, Felix Beuschlein, Anthony Stell, Martin Fassnacht, Aleksander Prejbisz, Jacques WM Lenders and Mercedes Robledo

<https://doi.org/10.1515/cclm-2020-0904>

Emicizumab, the factor VIII mimetic bi-specific monoclonal antibody and its measurement in plasma

Armando Tripodi, Veena Chantarangkul, Cristina Novembrino, Erica Scalabrino, Massimo Boscolo-Anzoletti, Marigrazia Clerici, Federica Rossi, Flora Peyvandi

<https://doi.org/10.1515/cclm-2020-0696>

REFERENCE VALUES AND BIOLOGICAL VARIATIONS

Age appropriate reference intervals for eight kidney function and injury markers in infants, children and adolescents

Tamara van Donge, Eveline Staub, Andrew Atkinson Verena Gotta John van den Anker,, Lorenz Risch,, Tatjana Welzel, Marc Pfister

<https://doi.org/10.1515/cclm-2020-0781>

CARDIOVASCULAR DISEASES

Comparison of acetylsalicylic acid and clopidogrel non-responsiveness assessed by light transmittance aggregometry and PFA-100® in patients undergoing neuroendovascular procedures

Christina C. Rolling, Julia Tomada, Andreas M. Frölich, Brigitte Holst, Katharina Holstein, Minna Voigtländer, Snjezana Janjetovic, Munif Haddad, Thomas Renné, Jens Fiehler, Carsten Bokemeyer, Thierry Rolling, Florian Langer

<https://doi.org/10.1515/cclm-2020-0737>

Trimethylamine-N-oxide (TMAO) predicts short- and long-term mortality and poor neurological outcome in out-of-hospital cardiac arrest patients

Seraina R. Hochstrasser, Kerstin Metzger, Alessia M. Vincent, Christoph Becker, Annalena K.J. Keller, Katharina Beck, Sebastian Perrig, Kai Tisljar, Raoul Sutter, Philipp Schuetz, Luca Bernasconi, Peter Neyer, Stephan Marsch, Sabina Hunziker

<https://doi.org/10.1515/cclm-2020-0159>

Non-lactate strong ion difference and cardiovascular, cancer and all-cause mortality

Ashish Verma and Rehan Qayyum

<https://doi.org/10.1515/cclm-2020-0233>

INFECTIOUS DISEASES

Performance of three automated SARS-CoV-2 antibody assays and relevance of orthogonal testing algorithms

Evelyne Huyghe, Hilde Jansens, Veerle Matheussen, Ilse Hoffbauer, Herman Goossens, Bart Peeters

<https://doi.org/10.1515/cclm-2020-13678>

Development, evaluation, and validation of machine learning models for COVID-19 detection based on routine blood tests

Cabitz Federico, Campagner Andrea, Ferrari Davide, Di Resta Chiara, Ceriotti Daniele, Sabetta Eleonora, De Vecchi Elena, Banfi Giuseppe, Locatelli Massimo, Carobene Anna

<https://doi.org/10.1515/cclm-2020-1294>

Searching for a role of procalcitonin determination in COVID-19: a study on a selected cohort of hospitalized patients

Alberto Dolci, Cristina Robbiano, Elena Aloisio, Mariia Chibireva, Ludovica Serafini, Felicia Stefania Falvella, Sara Pasqualetti, Mauro Panteghini

<https://doi.org/10.1515/cclm-2020-1361>

Association of kidney function with effectiveness of procalcitonin-guided antibiotic treatment: a patient-level meta-analysis from randomized controlled trials

Eva Heilmann, Claudia Gregoriano, Yannick Wirz, Charles-Edouard Luyt, Michel Wolff, Jean Chastre, Florence Tubach, Mirjam Christ-Crain, Lila Bouadma, Djillali Annane, Pierre Damas, Kristina B. Kristoffersen, Carolina F. Oliveira, Daiana Stolz, Michael Tamm, Evelien de Jong, Konrad Reinhart, Yahya Shehabi, Alessia Verduri, Vandack Nobre, Maarten Nijsten, Dylan W deLange, Jos A.H. van Oers, Albertus Beishuizen, Armand RJ Girbes, Beat Mueller and Philipp Schuetz

<https://doi.org/10.1515/cclm-2020-0931>

LETTERS TO THE EDITORS

Harmonization of antineutrophil cytoplasmic antibodies (ANCA) testing by reporting test result-specific likelihood ratios: position paper

Xavier Bossuyt, Jan Damoiseaux, Niels Rasmussen, Pieter van Paassen, Bernard Hellmich, Bo Baslund, Daniel Blockmans, Pieter Vermeersch, Marcos Lopez-Hoyos, Martine Vercammen, Elisa Barret, Friederike Hammar, Ulrich Leinfelder, Michael Mahler, Nina Olschowka, Dirk Roggenbuck, Wolfgang Schlumberger, Roger Walker, Johan Rönnelid, Jan-Willem Cohen Tervaert, Elena Csernok and Walter Fierz for (i) the European Federation of Laboratory Medicine (EFLM) Task and Finish Group "Autoimmunity Testing," (ii) the European

Autoimmune Standardization Initiative (EASI) and the (iii) European Consensus Finding Study Group on autoantibodies (ECFSG)

<https://doi.org/10.1515/cclm-2020-1178>

Independent internal quality control (IQC) for faecal immunochemical tests (FIT) for haemoglobin: use of FIT manufacturers' IQC for other FIT systems

Piggott Carolyn, Shugaa Zinab Benton Sally C.

<https://doi.org/10.1515/cclm-2020-0286>

An evaluation of ten external quality assurance scheme (EQAS) materials for the faecal immunochemical test (FIT) for haemoglobin

Shane O'Driscoll, Carolyn Piggott, Helen Bruce and Sally C Benton

<https://doi.org/10.1515/cclm-2020-0210>

Parallel testing of 241 clinical nasopharyngeal swabs for the detection of SARS-CoV-2 virus on the Cepheid Xpert Xpress SARS-CoV-2 and the Roche cobas SARS-CoV-2 assays

Jason Wei Ming Tham, Shu Chi Ng, Chean Nee Chai, Siyu Png, Eunice Jia Min Tan, Li Jie Ng, Rui Ping Chua, Musa Sani, Donald Chiang, Ker Xin Tan, Nancy Wen Sim Tee, Roland Jureen, Shaun S Tan, Gabriel Yan, Benedict Yan, Chun Kiat Lee

<https://doi.org/10.1515/cclm-2020-1338>

Sustained SARS-CoV-2 nucleocapsid antibody levels in nonsevere COVID-19: a population-based study

Anna Schaffner, Lorenz Risch, Myriam Weber, Sarah Thiel, Katharina Jüngert, Michael Pichler, Nadia Wohlwend, Thomas Lung, Michael Ritzler, Dorothea Hillmann, Sandra Copeland, Harald Renz, Matthias Paprotny, Martin Risch

<https://doi.org/10.1515/cclm-2020-1047>

Complete blood counts and cell population data from Sysmex XN analyzer in the detection of SARS-CoV-2 infection

Eloísa Urrechaga, Urko Aguirre, Pablo Pedro España and Luis García de Guadiana

<https://doi.org/10.1515/cclm-2020-1416>

Evidence for increased circulating procoagulant phospholipids in patients with COVID-19 pneumonia and their prognostic role

Stelios F. Assimakopoulos, MD, PhD¹ Andreas Emmanuil, MD, PhD², Asimina Tsimeka, MD¹ Theodora Chalkidi, MD¹ Markos Marangos, MD, PhD¹ Charalambos Gogos

<https://doi.org/10.1515/cclm-2020-1260>

Macro creatine kinase in an asymptomatic patient: A Case Report

Mu, Xiaofeng; Zhang, Lei; Han, Fengjuan; Liu, Xiao; Xie, Chunxia; Tian, Kegang; Bi, Qingqing; Hao, Mingju

<https://doi.org/10.1515/cclm-2020-0811>

Implementation of pre-labelled barcode tubes and the GeT-System in a general hospital for the exact documentation of the time of venous blood sample and improvement of sample quality

Gabriele Halwachs-Baumann Birgit Winninger

<https://doi.org/10.1515/cclm-2020-1017>

Determination of free light chains: assay-dependent differences in interpretation

Xavier Bossuyt, Koen Poesen, Ben Sprangers, Martin Reynders Martine Vercammen Michel Delforge <https://doi.org/10.1515/cclm-2020-0938>

Association between *SOX17*, *Wif-1* and *RASSF1A* promoter methylation status and response to chemotherapy in patients with metastatic gastric cancer

Karamitrousis E. Balgkouranidou I. Xenidis N. Amarantidis K. Biziota E. Koukaki T. Trypsianis G., Karayiannakis A., Bolanaki E., Chatzaki E., Kolios G., Lianidou E. Lambropoulou M., Kakolyris S

<https://doi.org/10.1515/cclm-2020-0066>

Effect of two organizational interventions on the frequency of haemoglobin A_{1c} and erythrocyte sedimentation rate testing

Janne Cadamuro, Cornelia Mrazek, Martin H. Keppel, Thomas K. Felder, Hannes Oberkofler and Elisabeth Haschke-Becher

<https://doi.org/10.1515/cclm-2020-1206>

Haemoglobin A_{1c} determination from dried blood spots prepared with HemaSpot™ blood collection devices: comparison with fresh capillary blood

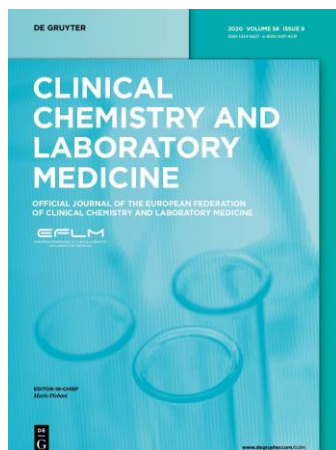
Jenny M. Hall, Claire F. Fowler, M. Anne Pollock and Sandra M. MacRury

<https://doi.org/10.1515/cclm-2020-0675>

Stability of catecholamines in whole blood: influence of time between collection and centrifugation

Quentin Despinasse, Luc Choisnard, Patrice Faure, Denis Guicherd, Eric Peyrin, Corinne Ravelet and Benoit Chovelon

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REVIEWS

Clinical relevance of biological variation of cardiac troponins

Aldo Clerico, Andrea Padoan, Martina Zaninotto, Claudio Passino and Mario Plebani

<https://doi.org/10.1515/cclm-2020-11433>

Re-examining ferritin-bound iron: current and developing clinical tools

Erin Grant, Danielle Clucas, Gawain McColl, Liam Hall, David Simpson

<https://doi.org/10.1515/cclm-2020-1095>

OPINION PAPERS

Designing a diagnostic Total Testing Process as a base for supporting diagnostic stewardship

Christa Cobbaert, Arjan Albersen, Irna Zwieters, Pascal Schippers and Judith Gillis

<https://doi.org/10.1515/cclm-2020-1251>

The end of the laboratory developed test as we know it? Recommendations from a national multidisciplinary taskforce of laboratory specialists on the interpretation of the IVDR and its complications

Bank, Paul; Jacobs, Leo; van den Berg, Sjoerd; van Deutekom, Hanneke; Hamann, Dörte; Molenkamp, Richard; Ruivenkamp, Claudia; Swen, Joachim; Tops, Bastiaan; Wamelink, Mirjam; Wessels, Els; Oosterhuis, Wytze

<https://doi.org/10.1515/cclm-2020-1384>

EFLM PAPERS

The Academy of the European Federation of Clinical Chemistry and Laboratory Medicine and the European Register of Specialists in Laboratory Medicine: Guide to the Academy and the Register, version 4 – 2020

Gijsbert Wieringa, Nuthar Jassam, Evgenija Homsak, Ivana Rako and Jaroslav Racek

<https://doi.org/10.1515/cclm-2020-1507>

A proposed Common Training Framework for Specialists in Laboratory Medicine under EU Directive 2013/55/EC (The Recognition of Professional Qualifications)

Gijsbert Wieringa, Josep Queraltó, Evgenija Homšak, Nuthar Jassam, Etienne Cavalier, Dobrin Svinarov, Jasna L Krleža, Spyroula Christou, Richard Pikner, Trine Rennebod Larsen, Karel Tomberg, Anna Linko-Parvinen, Vincent Sapin, Hannsjorg Baum, Christos Kroupis, Zsuzsa Bagoly, Sean Costelloe, Laura Sciacovelli, Janis Stasulans, Dalius Vitkus, Danielle Meunier, Bogdan Solnica, Henrique Reguengo, Cristina Mambet, Gustav Kovac, Blaž Krhin, Mats Ohlson, Gerald Buhagiar, Ana-Maria Simundic

<https://doi.org/10.1515/cclm-2020-1504>

GUIDELINES AND RECOMMENDATIONS

High-sensitivity cardiac troponin I and T methods for the early detection of myocardial injury in patients on chemotherapy

Aldo Clerico, Daniela Maria Cardinale, Martina Zaninotto, Nadia Aspromonte, Maria Teresa Sandri, Claudio Passino, Marco Migliardi, Marco Perrone, Antonio Fortunato, Andrea Padoan, Tommaso Trenti, Sergio Bernardini, Laura Sciacovelli, Furio Colivicchi, Domenico Gabrielli and Mario Plebani

<https://doi.org/10.1515/cclm-2020-0362>

GENERAL CLINICAL CHEMISTRY AND LABORATORY MEDICINE

Measurement of serum 17-hydroxyprogesterone using isotope dilution liquid chromatography-tandem mass spectrometry candidate reference method and evaluation of the performance for three routine methods

Qichen Long, Tianjiao Zhang, Ying Yan, Haijian Zhao, Weiyan Zhou, Jie Zeng, Shuijun Li, Jiangtao Zhang, Qingzhang Zeng, Beibei Zhao, Chuanbao Zhang, Wenxiang Chen

<https://doi.org/10.1515/cclm-2020-0410>

Evaluation of carbohydrate-deficient transferrin measurements on the V8 capillary electrophoresis system and comparison with the IFCC approved HPLC reference method and N-Latex immunonephelometric assay

Leo H.J. Jacobs, Riekie M. te Stroet and Ayse Y. Demir

<https://doi.org/10.1515/cclm-2020-0545>

The clinical relevance of anti-dsDNA antibodies determined by the Elia™ dsDNA assay in patients with negative indirect immunofluorescence on the HEp-2 cell

Christoph Robier, Maximiliane Haas, Franz Quehenberger

<https://doi.org/10.1515/cclm-2020-1408>

A hierarchical bivariate meta-analysis of diagnostic test accuracy to provide direct comparisons of immunoassays versus indirect immunofluorescence for initial screening of connective tissue diseases

Michelle Elaine Orme, Carmen Andalucia, Sigrid Sjölander and Xavier Bossuyt

<https://doi.org/10.1515/cclm-2020-0094>

Individual uromodulin serum concentration is independent of glomerular filtration rate in healthy kidney donors

Dietmar Enko, Andreas Meinitzer, Jürgen E. Scherberich, Winfried März, Markus Herrmann, Katharina Artinger, Alexander R. Rosenkranz and Sabine Zitta

<https://doi.org/10.1515/cclm-2020-0894>

Comparison of iohexol plasma clearance formulas vs. inulin urinary clearance for measuring glomerular filtration rate

Laurence Dubourg, Sandrine Lemoine, Brune Joannard, Laurence Chardon, Vandrée de Souza, Pierre Cochat, Jean Iwaz, Muriel Rabilloud, Luciano Selistre

<https://doi.org/10.1515/cclm-2020-0770>

OVERWEIGHT - OBESITY IS ASSOCIATED WITH DECREASED VITAMIN K2 LEVELS IN HEMODIALYSIS PATIENTS

Maura Ravera, Thomas Nickolas, Mario Plebani, Giorgio Iervasi, Andrea Aghi, Pascale Khairallah, Maurizio Gallieni, Maria Cristina Mereu, Sandro Giannini, Stefania Sella, Martina Zaninotto, Ernesto Paoletti, Elisabetta Bussalino, Luca Di Lullo, Antonio Bellasi, Laura Cosmai, Marina Foramitti, Fabio Malberti, Maria Luisa Brandi, Serge Ferrari, Giovanni Tripepi and Maria Fusaro

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Evaluating the performance of an updated high-sensitivity troponin T assay with increased tolerance to biotin

Zerback, Rainer; von Meyer, Alexander; Albert, Gesa; Kunzelmann, Stefan; Rank, Christopher; Imdahl, Roland

<https://doi.org/10.1515/cclm-2020-0104>

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The anti-inflammatory cytokine response characterized by elevated interleukin-10 is a stronger predictor of severe disease and poor outcomes than the pro-inflammatory cytokine response in coronavirus disease 2019 (COVID-19)

Brandon Michael Henry, Stefanie W. Benoit,, Jens Vikse, Brandon A. Berger, Christina Pulvino, Jonathan Hoehn, James Rose, Maria Helena Santos de Oliveira, Giuseppe Lippi, Justin L. Benoit

<https://doi.org/10.1515/cclm-2020-1284>

Quantification of the HIV-1 total reservoir in the peripheral blood of naïve and treated patients by a standardised method derived from a commercial HIV-1 RNA quantification assay

Laura Di Sante, Andrea Costantini, Sara Caucci, Alice Corsi, Lucia Brescini, Stefano Menzo, Patrizia Bagnarelli

<https://doi.org/10.1515/cclm-2020-0142>

Comparison of the reliability of Gram-negative and Gram-positive flags of the Sysmex UF-5000 with manual Gram stain and urine culture results

Dietmar Enko, Ingeborg Stelzer, Michael Böckl, Wolfgang J. Schnedl, Andreas Meinitzer, Markus Herrmann, Martin Tötsch and Michael Gehrler

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Evaluation of a turbidimetric C-reactive protein assay to monitor early-onset neonatal sepsis in South Kivu (Democratic Republic of the Congo)

Guy Mulinganya, Serge Balolebwami, Serge Zigabe, Jules Mongane, Isia Nianci, Adrien Burume, Erick Hendwa, Freddy Kampara, Ghislain Maheshe, Antoine Sadiki, Ghislain Bisimwa, Piet Cools, Marijn Speeckaert, Steven Callens and Joris Delanghe

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<https://doi.org/10.1515/cclm-2020-0084>

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<https://doi.org/10.1515/cclm-2020-1037>

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<https://doi.org/10.1515/cclm-2020-0392>

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<https://doi.org/10.1515/cclm-2020-0364>

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<https://doi.org/10.1515/cclm-2020-0119>

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'Perchlorate interference with electrolyte analysis'

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<https://doi.org/10.1515/cclm-2020-0096>

False decrease in serum triglyceride and cholesterol due to massive ascorbate in a bowel preparation solution

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<https://doi.org/10.1515/cclm-2020-0782>

Analytical evaluation of Reebio procalcitonin latex-enhanced immunoturbidimetric assay on the HITACHI Labospect 008AS

Running Head: Immunoturbidimetric assay for PCT measurement

Shunzong Yuan, Naxin Zheng, Wenwen Zheng^a, Qian Jiang, Bing Qiao, Huarong Jing, Ying Li, Xiaoyu Qi, Wenjing Cao, Shiping Song

<https://doi.org/10.1515/cclm-2020-0796>