

Editor in Chief Brian D Sites (USA)

Associate Editor-in-Chief for Statistics Matthew A Davis (USA)

Executive Editors

Chad M Brummett (USA)
Asokumar Buvanendran (USA)
Xavier Capdevila (France)
Steven P Cohen (USA)
Yun Guan (USA)
Spencer S Liu (USA)
Stavros Memtsoudis (USA)
Anahi Perlas (Canada)
De Q H Tran (Canada)
Christopher L Wu (USA)

Editorial Office

BMJ Publishing Group Ltd, BMA House, Tavistock Square, London WC1H 9JR, UK

T: +1 919 650 1459 F: +44 (0)20 7383 6668 E: info.rapm@bmj.com

Impact factor: 6.288

Disclaimer: The Editor of Regional Anesthesia and Pain Medicine has been granted editorial freedom and Regional Anesthesia and Pain Medicine is published in accordance with editorial guidelines issued by the World Association of Medical Editors and the Committee on Publication Ethics. Regional Anesthesia and Pain Medicine is primarily intended for healthcare professionals and its content is for information only. The Journal is published without any guarantee as to its accuracy or completeness and any representations or warranties are expressly excluded to the fullest extent permitted by law. Readers are advised to independently verify any information on which they choose to rely. Acceptance of advertising by Regional Anesthesia and Pain Medicine does not imply endorsement. Neither American Society of Regional Anesthesia & Pain Medicine nor BMJ Publishing Group Limited shall have any liability for any loss, injury or damage howsoever arising from *Regional Anesthesia and Pain Medicine* (except for liability which cannot be legally excluded).

Copyright: © 2022 American Society of Regional Anesthesia and Pain Medicine. All rights reserved; no part of this publication may be reproduced in any form without permission of *Regional Anesthesia and Pain Medicine*.

Regional Anesthesia and Pain Medicine is published by BMJ Publishing Group Ltd, typeset by Exeter Premedia Services Private Ltd, Chennai, India and printed in the UK on acid-free paper.

Regional Anesthesia & Pain Medicine ISSN 1472-0205 (USPS 580_990). BMA House, Tavistock Square, London WC1H 9JR, UK. The US annual subscription price is \$578.

Airfreight and mailing in the USA by agent named World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, USA. Periodicals postage paid at Brooklyn, NY 11256. US POSTMASTER: Send address changes to *Regional Anesthesia & Pain Medicine*, World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, USA. Subscription records are maintained at BMJ Publishing Group Ltd, 12th Floor, Southgate House, Wood Street, Cardiff, CF10 16H, Wales. Air Business Ltd is acting as our mailing agent.

Regional anesthesia and acute pain

79 Impact of ultrasound-guided erector spinae plane block on outcomes after lumbar spinal fusion: a retrospective propensity score matched study of 242 patients

E. M. Soffin, I. Okano, L. Oezel, A. Arzani, A. A. Sama, F. P. Cammisa, F. P. Girardi, A. P. Hughes

Infographics

87 Impact of ultrasound-guided erector spinae plane block on outcomes after lumbar spinal fusion: a retrospective propensity score-matched study of 242 patients—an infographic

RK Gupta, EM Soffin, ES Schwenk

105 Recent cannabis use and nightly sleep duration in adults: an infographic

ES Schwenk, RK Gupta, CDiep

Chronic and interventional pain

4

Multicenter study evaluating factors associated with treatment outcome for low back pain injections

S P Cohen, T L Doshi, C Kurihara, D Reece, E Dolomisiewicz, C R Phillips, T Dawson, D Jamison, R Young, P F Pasquina

100 Recent cannabis use and nightly sleep duration in adults: a population analysis of the NHANES from 2005 to 2018

C Diep, C Tian, K Vachhani, C Won, D N Wijeysundera, H Clarke, M Singh, K S Ladha

Special articles

International consensus on anatomical structures to identify on ultrasound for the performance of basic blocks in ultrasoundguided regional anesthesia

J S Bowness, A Pawa, L Turbitt, B Bellew,
N Bedforth, D Burckett-St Laurent, A Delbos,
N Elkassabany, J Ferry, B Fox, J L H French,
C Grant, A Gupta, W Harrop-Griffiths, N Haslam,
H Higham, R Hogg, D F Johnston, R J Kearns,
S Kopp, C Lobo, S McKinlay, S Memtsoudis,
P Merjavy, E Moka, M Narayanan, S Narouze,
J A Noble, D Phillips, M Rosenblatt, A Sadler,
M P Sebastian, A Taylor, A Thottungal,
L F Valdés-Vilches, T Volk, S West, M Wolmarans,
J Womack, A J R Macfarlane

- 113 Agents of change: the Gaston Labat awardees past, present, and future—the 2021 Gaston Labat Award lecture FK Enneking
- 118 A multisociety organizational consensus process to define guiding principles for acute perioperative pain management

E R Mariano, D M Dickerson, J W Szokol,
M Harned, J T Mueller, B K Philip, J L Baratta,
P Gulur, J Robles, K M Schroeder, K E K Wyatt,
J M Schwalb, E S Schwenk, R Wardhan, T S Kim,
K K Higdon, D G Krishnan, A M Shilling,
G Schwartz, L Wiechmann, L V Doan,
N M Elkassabany, S C Yang, I O Muse, J D Eloy,
V Mehta, S Shah, R L Johnson, M J Englesbe,
A Kallen, S B Mukkamala, A Walton,
A Buvanendran

Research reports

128 Epid and

Epidural infections, bacteriostatic drug effects and technical strategies for prevention

J Bruenke, T Riemann, P Kessler, N Kachel

Morphology of antemortem dural puncture healing: an ex vivo sheep study

C García-Vitoria, M García -Roselló, J I Redondo, Á J Gutiérrez-Bautista, J De Andres, A Boezaart, A Vicente-Montaña, M A Reina

134 Evaluation of sensory loss obtained by modified-thoracoabdominal nerves block through perichondrial approach in patients undergoing gynecological laparoscopic surgery: a prospective observational study *K Aikawa, I Yokota, Y Maeda, Y Morimoto*

Case report

Hyaluronic acid injections for treatment of pediatric sickle cell avascular necrosis of the humeral head

J Y-A Wong, S Le, C Lo, A Costandi, V Chernishof, F Kim

MORE CONTENTS ▶



This article has been chosen by the Editor to be of special interest or importance and is freely available online.



This article has been made freely available online under the BMJ Journals open access scheme.

See http://authors.bmj.com/open-access



This journal is a member of and subscribes to the principles of the Committee on Publication Ethics

www.publicationethics.org



Letters

- 140 Not a single spinal cord injury due to direct needle trauma in over 1.3 million epidural steroid injections

 C Gilligan, J Rathmell
- **140** Response to the letter to the editor *E Eworuke, J Racoosin, D J Graham*
- Analgesic efficacy of adding the iPACK to adductor canal block in the presence or absence of periarticular local anesthetic infiltration in total knee arthroplasty M Yi, B Shen
- 142 Letter to the editor: regarding 'Does the addition of iPACK to adductor canal block in the presence or absence of periarticular local anesthetic infiltration improve analgesic and functional outcomes following total knee arthroplasty? A systematic review and meta-analysis'

T Xiu-mei, W Duan, M Ping, N Ning

- 143 In reply to Dr Yi and colleagues and Dr Tang and colleagues N Hussain, F W Abdallah
- 143 Keep it simple and cheap, enhancing the quality of regional analgesia

 A Rocha-Romero, R Aguilar-Ureña,

 M Fajardo Perez

- **144** Regional anesthesia and pain medicine *P Pai B.H. Y H Lai*
- 145 In reply: 'automating patient outcomes: next frontier?'
 D Gessner, O O Hunter, A Kou, E R Mariano
- 146 Letter to the recent publication: pericapsular nerve group (PENG) block provides improved short-term analgesia compared with the femoral nerve block in hip fracture surgery: a single-centre double-blinded randomized comparative trial F Moosa, N M Sadavarte
- 147 In reply to: A letter to the recent publication: Pericapsular nerve group (PENG) block provides improved short-term analgesia compared with the femoral nerve block in hip fracture surgery: a single-center double-blinded randomized comparative trial D-Y Lin, B Brown, C Morrison, A Saies, R Pawar, M Vermeulen, S R Anderson, T S Lee, J Doornberg,
- **147** Tangled up in blue (with apologies to Bob Dylan) *A Boezaart, M A Reina*

H Kroon, R Jaarsma

150 Famous blue stain coat (with sincere gratitude to Leonard Cohen)

D Q Tran, N Maikong, P Kantakam, A Sinthubua, P Mahakkanukrauh, P Leurcharusmee