Editor's note
935 Editor’s comments
B D Sites, A M Davis

Education
936 Journey across epidemiology’s third variables: an anesthesiologist’s guide for successfully navigating confounding, mediation, and effect modification
J Levy, R Lebeaux, B Christensen, T Tosteson, V Bryan

Regional anesthesia and acute pain
941 Bariatric surgery and total knee/hip arthroplasty: an analysis of the impact of sequence and timing on outcomes
J Liu, H Zhong, J Porean, P K Sicalo, D H Kim, S G Memboutou

948 Waking Up in Pain: a prospective unsellected cohort study of pain in 3702 patients immediately after surgery in the Danish Realm

952 Comparison of continuous intravenous lidocaine versus TAP block for kidney transplant: an infographic
E S Schwenk, R K Gupta

Review
971 Peripheral nerve block anesthesia/analgesia for patients undergoing primary hip and knee arthroplasty: recommendations from the International Consensus on Anesthesia-Related Outcomes after Surgery (ICAROS) group based on a systematic review and meta-analysis of current literature

Perineural dexamethasone reduces rebound pain after ropivacaine single injection interscalene block for arthroscopic shoulder surgery: a randomized controlled trial

Infographics
946 Bariatric surgery and total knee/hip arthroplasty: an analysis of the impact of sequence and timing on outcomes: an infographic
R K Gupta, E S Schwenk

947 Waking up in pain: an infographic
E S Schwenk, R K Gupta

954 Comparison of continuous intravenous lidocaine versus TAP block for kidney transplant: an infographic
E S Schwenk, R K Gupta

Contents
Volume 46 Issue 11 • rapm.org

Does perineural dexamethasone replace - which should be first?
Plus:
Intravenous lidocaine vs.
Comparison of continuous intravenous
Danish Realm
Journey across epidemiology’s third variables: an anesthesiologist’s guide for successfully navigating confounding, mediation, and effect modification
Regional anesthesia and acute pain
Education
Editorial Office
Perioperative education
Disclaimer:
Editor in Chief
Regional anesthesia and acute pain
Bariatic surgery and total knee/hip arthroplasty: an analysis of the impact of sequence and timing on outcomes
Regional anesthesia and acute pain

Editor in Chief
Brian D Sites (USA)
Associate Editor-in-Chief for Statistics
Matthew A Davis (USA)
Executive Editors
Chad M Brummet (USA)
Assurant Buchanan (USA)
Xavier Cupido (France)
Steven P Cohen (USA)
Yun Gu (USA)
Spencer S Liu (USA)
Stavros Memboutou (USA)
Anahi Perlas (Canada)
De D H Tran (Canada)
Christopher L Wua (USA)

BMJ Publishing Group Ltd, BMA House, Tavistock Square, London WC1H 9JR, UK
ISSN 0955-9916

Copyright © 2021 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 is published in accordance with the Committee on Publication Ethics.

Does perineural dexamethasone replace - which should be first?
Plus:
Intravenous lidocaine vs.
Comparison of continuous intravenous
Danish Realm
Journey across epidemiology’s third variables: an anesthesiologist’s guide for successfully navigating confounding, mediation, and effect modification
Regional anesthesia and acute pain
Education
Editorial Office
Perioperative education
Disclaimer:
Editor in Chief
Regional anesthesia and acute pain
Bariatic surgery and total knee/hip arthroplasty: an analysis of the impact of sequence and timing on outcomes
Regional anesthesia and acute pain

Editor in Chief
Brian D Sites (USA)
Associate Editor-in-Chief for Statistics
Matthew A Davis (USA)
Executive Editors
Chad M Brummet (USA)
Assurant Buchanan (USA)
Xavier Cupido (France)
Steven P Cohen (USA)
Yun Gu (USA)
Spencer S Liu (USA)
Stavros Memboutou (USA)
Anahi Perlas (Canada)
De D H Tran (Canada)
Christopher L Wua (USA)

BMJ Publishing Group Ltd, BMA House, Tavistock Square, London WC1H 9JR, UK
ISSN 0955-9916

Copyright © 2021 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 is published in accordance with the Committee on Publication Ethics.

Does perineural dexamethasone replace - which should be first?
Plus:
Intravenous lidocaine vs.
Comparison of continuous intravenous
Danish Realm
Journey across epidemiology’s third variables: an anesthesiologist’s guide for successfully navigating confounding, mediation, and effect modification
Regional anesthesia and acute pain
Education
Editorial Office
Perioperative education
Disclaimer:
Editor in Chief
Regional anesthesia and acute pain
Bariatic surgery and total knee/hip arthroplasty: an analysis of the impact of sequence and timing on outcomes
Regional anesthesia and acute pain

Editor in Chief
Brian D Sites (USA)
Associate Editor-in-Chief for Statistics
Matthew A Davis (USA)
Executive Editors
Chad M Brummet (USA)
Assurant Buchanan (USA)
Xavier Cupido (France)
Steven P Cohen (USA)
Yun Gu (USA)
Spencer S Liu (USA)
Stavros Memboutou (USA)
Anahi Perlas (Canada)
De D H Tran (Canada)
Christopher L Wua (USA)

BMJ Publishing Group Ltd, BMA House, Tavistock Square, London WC1H 9JR, UK
ISSN 0955-9916

Copyright © 2021 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 is published in accordance with the Committee on Publication Ethics.
## Contents

### Special article
986  
Developing a business case for a regional anesthesia block room: up with efficiency, down with costs  
Y Mazda, S Peacock, J Wolfisztad, J Matelski, V Chan, Y (Josh) Gleicher

### Brief technical report
992  
Dural puncture during lumbar epidural access in the setting of degenerative spondylolisthesis: case series and risk mitigation strategies  
V Sindhi, C G Lim, A Khan, C Pino, S P Cohen

### Research reports
997  
Cross-sectional study on sex differences in chronic pain patients using the DATAPAIN cohort  
S Waardenburg, N de Meij, B Brouwer, J van Zundert, S MJ van Kuijk

1000  
Pilot study to correlate objective eye-tracking data with timed subjective task completion using five local anesthetic systemic toxicity cognitive aids  
S S Joo, E R Mariano, J M Neal, G L Weinberg, A Koz, O O Hunter, T K Harrison, A D Udani, S K Howard

### Case report
1002  
Percutaneous radiofrequency treatment of the gasserian ganglion for trigeminal neuralgia complicated by trochlear nerve palsy: a case report  
P SH Smulders, M AMB Terheggen, J W Geurts, J W Kallewaard

### Chronic and interventional pain
1006  
Protein kinase G signaling pathway is involved in sympathetically maintained pain by modulating ATP-sensitive potassium channels  
H Li, M Shang, L Liu, X Lin, J Hu, Q Han, J Xing

### Letters
1012  
Analysis in statistical perspective about the article titled “Pre-emptive epidural analgesia for acute and chronic post-thoracotomy pain in adults: a systematic review and meta-analysis”  
Y Ren, X Fu, Y Wang, H Liu, Q Wang, F You

1012  
Reply to Drs Ren and Fu  
S-K Park, J-H Seo

1013  
Efficacy and pharmacokinetics of erector spinae plane block in children  
P-A Löonqvist

1014  
Response to: “Efficacy and pharmacokinetics of erector spinae plane block in children by Löonqvist”  
X Capdevila, P Macaire

1014  
Culture and caution: a letter regarding dose variability in pediatric peripheral nerve blocks  
M Hoyler, N Dong, V Zayas, J Ruby, K DellPizzo

1015  
Truth is in the data: a response to culture and caution  
A H Taenzer, D Polsner

1016  
Letter to the editor regarding ‘Use of intrathecal chloroprocaine for ambulatory perianal procedures in the prone jackknife position: a retrospective single-center experience’  
E Wesselink, M de Leeuw

1017  
Letter to the editor  
I A Sanoja, N Ragheb-Mueller, K Toth

### Abstracts
1018  
Scientific Abstracts from the 46th Annual Regional Anesthesiology and Acute Pain Medicine Meeting