

Emeritus Professor. Stephan Schug

UWA Medical School

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## Qualifications

Clinical Pharmacology, MD, The Pharmacokinetics of Combined Antibiotic Therapy in Newborns under Special Consideration of Gentamicin", University of Cologne

Award Date: 8 Sept 1983

2017 → ... European Diploma in Pain Medicine, EDPM

1999 → ... Fellow of the Faculty of Pain Medicine of ANZCA, FFPMANZCA

1998 → ... Fellow of the Australian and New Zealand College of Anaesthetists, FANZCA

## Biography

Stephan Schug is currently an Honorary Senior Research Fellow and Emeritus Professor, after he retired in October 2019 from his positions of Professor and Chair of Anaesthesiology and Pain Medicine in the Medical School of the University of Western Australia and Director of Pain Medicine at the Royal Perth Hospital, Australia.

He studied medicine at the University of Cologne, Germany, where he also obtained his MD by thesis in clinical pharmacology and subsequently specialised in anaesthesia, intensive care and pain medicine.

Very early in his career, he focused his clinical and research interests on the treatment of patients in pain. Initially he was involved in the setting up and running of the first German cancer pain treatment centre with his friend and colleague Dr. Detlev Zech.

After accepting a position in New Zealand in 1989, he initiated one of the first Acute Pain Services in Australasia at Auckland Hospital. The planned stay of one year became 12 years after he accepted the successorship of Associate Professor Robert Boas as the Head of Section of Anaesthetics at the University of Auckland. Over the next years he developed academic anaesthesia at the University of Auckland and was awarded a Personal Chair in Anesthesiology in 2000.

In 2001 he moved to Perth, Western Australia, where he succeeded the Inaugural Chair of Anaesthesia at the University of Western Australia, Professor Teik Oh, in 2006. As the Director of Pain Medicine in the Department of Anaesthesia and Pain Medicine of Royal Perth Hospital his clinical responsibilities include the running of a Comprehensive Inpatient Pain Service at this hospital as well as a multidisciplinary Pain Medicine Centre under the auspices of the WA Statewide Pain Service. Pain Medicine at RPH is accredited for training by the Faculty of Pain Medicine of the Australian and New Zealand College of Anaesthetists.

He has written over 85 research and 180 review papers, as well as abstracts, letters, and editorials, and has edited or co-authored several books, book chapters, and monographs. He was during his career on editorial and review boards of several leading journals including *Pain & Therapy*, *Annals of Palliative Medicine*, *Current Opinion in Anaesthesiology*, *Best Practice in Anesthesiology Research*, *Canadian Journal of Pain* and *CNS Drugs* and reviewing for most leading journals in the area of anaesthesiology and pain medicine including *Pain*, *Anesthesiology*, *Anaesthesia Analgesia* and *European Journal of Pain*.

Professor Schug was an active member of several pain and anaesthesia societies including Chair of the SIG Acute Pain of IASP and Chair of the SIG Acute Pain of ACE (ANZCA, ASA, NZSA), Secretary General of Asian & Oceanic Society of Regional Anaesthesia (AOSRA) and is a Fellow of the Australian and New Zealand College of Anaesthetists (ANZCA) and its Faculty of Pain Medicine (FPMANZCA), where he was a member of the Board of the Faculty.

## Employment

**Emeritus Professor**

UWA Medical School

15 Feb 2021 → present

**Senior Honorary Research Fellow**

UWA Medical School

22 Feb 2001 → present

### **Secretary General**

Asian & Oceanic Society of Regional Anaesthesia (AOSRA)  
1 Jan 2017 → 1 Jan 2019

### **Chair of Special Interest Group 'Acute Pain'**

International Association for the Study of Pain (IASP)  
1 Jan 2016 → 1 Jan 2019

### **Chair of Special Interest Group 'Acute Pain'**

Anaesthesia Continuing Education (ACE)  
Australia  
1 Jan 2013 → 1 Jan 2019

### **Member of the Board**

Australian & New Zealand College of Anaesthetists  
West End, Australia  
1 Jan 2011 → 1 Jan 2019

## **Prizes/awards**

### **Bonica Lecturer of the Australian Pain Society**

Schug, Stephan (Recipient), 2011

### **Robert Orton Medal**

Schug, Stephan (Recipient), 2016

### **University of Auckland Distinguished Teacher Award**

Schug, Stephan (Recipient), 1995

## **Research outputs**

### **Serum lidocaine (lignocaine) concentrations during prolonged perioperative infusion in patients undergoing breast cancer surgery: A secondary analysis of a randomised controlled trial**

Toner, A. J., Bailey, M. A., Schug, S. A., Phillips, M., Ungerer, J. P., Somogyi, A. A. & Corcoran, T. B., Nov 2023, In: Anaesthesia and Intensive Care. 51, 6, p. 422-431 10 p.

### **Use of ketamine wafer for pain management by volunteer emergency medical technicians in rural Western Australia**

Tohira, H., Brink, D., Davids, L., Brits, R., Ball, S., Schug, S., Bailey, P. & Finn, J., Oct 2023, In: Emergency medicine Australasia : EMA. 35, 5, p. 786-791 6 p.

### **Health-related quality of life in patients accessing medicinal cannabis in Australia: The QUEST initiative results of a 3-month follow-up observational study**

Tait, M. A., Costa, D. S. J., Campbell, R., Norman, R., Warne, L. N., Schug, S. & Rutherford, C., Sept 2023, In: PLoS One. 18, 9, 22 p., e0290549.

### **Management of spontaneous cerebrospinal fluid leakage: A surgical case series**

Abdelrahman, A., Bizilis, J. C., Davies, S. & Bala, A., Dec 2022, In: .. 30, 6 p., 101639.

### **Evaluating Adherence of Evidence-Based Post-Operative Discharge Opioid Prescribing Guidelines and Patient Outcomes Two Weeks Post-Discharge**

Arwi, G. A., Tuffin, P. H. R. & Schug, S. A., 10 Oct 2022, In: Journal of Pain Research. 15, p. 3115-3125 11 p.

**Pregabalin versus placebo to prevent chronic pain after whiplash injury in at-risk individuals: results of a feasibility study for a large randomised controlled trial**

Nikles, J., Keijzers, G., Mitchell, G., Farrell, S. F., Perez, S., Schug, S., Ware, R. S., McLean, S. A., Connelly, L. B. & Sterling, M., 1 Feb 2022, In: *Pain*. 163, 2, p. E274-E284

**A Quality-of-Life Evaluation Study Assessing Health-Related Quality of Life in Patients Receiving Medicinal Cannabis (the QUEST Initiative): Protocol for a Longitudinal Observational Study**

Tait, M-A., Costa, D. S. J., Campbell, R., Norman, R., Schug, S. & Rutherford, C., 24 Nov 2021, In: *JMIR Research Protocols*. 10, 11, e32327.

**A pilot multicentre randomised controlled trial of lidocaine infusion in women undergoing breast cancer surgery**

Toner, A. J., Bailey, M. A., Schug, S. A. & Corcoran, T. B., Oct 2021, In: *Anaesthesia*. 76, 10, p. 1326-1341 16 p.

**Efficacy and Tolerability of Oral Compared with Sublingual Ketamine Lozenges as Rescue Analgesics in Adults for Acute Pain: The OSKet Trial**

Chong, C. C. & Schug, S. A., Sept 2021, In: *Clinical Drug Investigation*. 41, 9, p. 817-823 7 p.

**PROSPECT guidelines update for evidence-based pain management after prostatectomy for cancer**

European Soc Regional Anaesthesia, Lemoine, A., Witdouck, A., Beloeil, H. & Bonnet, F., Aug 2021, In: *Anaesthesia Critical Care & Pain Medicine*. 40, 4, 9 p., 100922.

**Classification algorithm for the ICD-11 chronic pain classification (CAL-CP): development and results from a preliminary pilot evaluation**

Korwisi, B., Hay, G., Attal, N., Aziz, Q., Bennett, M. I., Benoliel, R., Cohen, M., Evers, S., Giamberardino, M. A., Kaasa, S., Kosek, E., Lavand'homme, P., Nicholas, M., Perrot, S., Smith, B. H., Svensson, P., Schug, S., Vlaeyen, J. W. S., Wang, S.-J., Treede, R.-D., & 2 othersRief, W. & Barke, A., 1 Jul 2021, In: *Pain*. 162, 7, p. 2087-2096 10 p.

**PROSPECT guideline for tonsillectomy: systematic review and procedure-specific postoperative pain management recommendations**

The PROSPECT Working Group Collaborators, Jul 2021, In: *Anaesthesia*. 76, 7, p. 947-961 15 p.

**Do NSAIDs Really Interfere with Healing after Surgery?**

Schug, S. A., 1 Jun 2021, In: *Journal of Clinical Medicine*. 10, 11, 2359.

**Acute Pain Management: A Practical Guide**

Macintyre, P. E. & Schug, S., Jun 2021, 5th ed. Boca Raton: CRC Press. 338 p.

**Persistent Spinal Pain Syndrome: a proposal for Failed Back Surgery Syndrome and ICD-11**

Christelis, N., Simpson, B., Russo, M., Stanton-Hicks, M., Barolat, G., Thomson, S., Schug, S., Baron, R., Buchser, E., Carr, D. B., Deer, T. R., Dones, I., Eldabe, S., Gallagher, R., Huygen, F., Kloth, D., Levy, R., North, R., Perruchoud, C., Petersen, E., & 5 othersRigoard, P., Slavin, K., Turk, D., Wetzels, T. & Loeser, J., 20 Apr 2021, In: *Pain Medicine*. 22, 4, p. 807-818 12 p.

**Pregabalin for neuropathic pain in primary care settings: recommendations for dosing and titration**

Freyenhagen, R., Baron, R., Kawaguchi, Y., Malik, R. A., Martire, D. L., Parsons, B., Rey, R. D., Schug, S. A., Jensen, T. S., Tölle, T. R., Ushida, T. & Whalen, E., Jan 2021, In: *Postgraduate Medicine*. 133, 1, p. 1-9 9 p.

**Successful rotation from long-acting full agonist opioids to sublingual buprenorphine/naloxone using a microdosing approach**

Vytialingam, R. C., Schug, S. A. & O'Regan, R., 2021, In: *Journal of Opioid Management*. 17, 7, p. 159-166 8 p.

**Acute Pain Management: Scientific Evidence**

Schug, S. A. (ed.), Palmer, G. M. (ed.), Scott, D. A. (ed.), Alcock, M. (ed.), Halliwell, R. (ed.) & Mott, J. F. (ed.), Dec 2020, 5th ed. Melbourne: Australian and New Zealand College of Anaesthetists. 921 p.

**Opioid stewardship can reduce inappropriate prescribing of opioids at hospital discharge**

Schug, S. A., 1 Nov 2020, In: Medical Journal of Australia. 213, 9, p. 409-410 2 p.

**Central Mechanisms of Pain in Orofacial Pain Patients: Implications for Management**

Jessri, M., Sultan, A. S., Tavares, T. & Schug, S., 1 Jul 2020, In: Journal of Oral Pathology & Medicine. 49, 6, p. 476-483 8 p.

**PROSPECT guideline for oncological breast surgery: a systematic review and procedure-specific postoperative pain management recommendations**

The PROSPECT Working Group Collaborators & Schug, S., 1 May 2020, In: Anaesthesia. 75, 5, p. 664-673 10 p.

**Potential for Harm Associated with Discharge Opioids After Hospital Stay: A Systematic Review**

Arwi, G. A. & Schug, S. A., 1 Apr 2020, In: Drugs. 80, 6, p. 573-585 13 p.

**Multi-Criteria Decision Analysis to Develop an Efficacy-Safety Profile of Parenteral Analgesics Used in the Treatment of Postoperative Pain**

Schug, S., Pogatzki-Zahn, E., Phillips, L. D., Essex, M. N., Xia, F., Reader, A. J. & Pawinski, R., 2020, In: Journal of Pain Research. 13, p. 1969-1977 9 p.

**Pain management after open inguinal hernia repair: an updated systematic review and procedure-specific postoperative pain management (PROSPECT/ESRA) recommendations**

The PROSPECT Working Group Collaborators & Schug, S., 2020, In: Acta Anaesthesiologica Belgica. 71, p. 45-56 12 p.

**Pathophysiology of Pain**

Schug, S., 2020, *Mechanisms of Vascular Disease: A Textbook for Vascular Specialists*. . Fitridge, R. (ed.). 3 ed. Springer

**Post Amputation Pain Syndromes**

Schug, S. A., 2020, *Mechanisms of Vascular Disease: A Textbook for Vascular Specialists*. Fitridge, R. (ed.). 3rd ed. Switzerland: Springer International Publishing, p. 489-504 16 p.

**The Influence of a Positive Empathetic Interaction on Conditioned Pain Modulation and Manipulation Induced Analgesia in People with Lateral Epicondylalgia**

Muhsen, A., Moss, P., Gibson, W., Walker, B., Jacques, A., Schug, S. & Wright, A., 2020, In: The Clinical Journal of Pain. 36, 6, p. 411-419 9 p.

**Treatment of Neuropathic Pain**

Schug, S., 2020, *Mechanisms of Vascular Disease: A Textbook for Vascular Specialists*. Fitridge, R. (ed.). 3 ed. Springer

**Post-surgical opioid stewardship programs across Australia and New Zealand: Current situation and future directions**

Allen, M. L., Leslie, K., Parker, A. V., Kim, C. C., Brooks, S. L., Braat, S., Schug, S. A. & Story, D. A., 1 Nov 2019, In: Anaesthesia and Intensive Care. 47, 6, p. 548-552 5 p.

**Development of evidence-based recommendations for procedure-specific pain management: PROSPECT methodology**

The PROSPECT Working Group Collaborators, 1 Oct 2019, In: Anaesthesia. 74, 10, p. 1298-1304 7 p.

**PROSPECT guideline for rotator cuff repair surgery: systematic review and procedure-specific postoperative pain management recommendations**

Toma, O., Persoons, B., Pogatzki-Zahn, E., Van de Velde, M., Joshi, G. P., Schug, S., Kehlet, H., Bonnet, F., Rawal, N., Delbos, A., Lavand'homme, P., Beloeil, H., Raeder, J., Sauter, A., Albrecht, E. & Lirk, P., 1 Oct 2019, In: Anaesthesia. 74, 10, p. 1320-1331 12 p.

**Evidence-Based Management of Postoperative Pain in Adults Undergoing Laparoscopic Sleeve Gastrectomy**

The PROSPECT Working Group Collaborators, 15 Jun 2019, In: World Journal of Surgery. 43, 6, p. 1571-1580 10 p.

**The association between conditioned pain modulation and manipulation induced analgesia in people with lateral epicondylalgia**

Muhsen, A., Moss, P., Gibson, W., Walker, B., Jacques, A., Schug, S. & Wright, A., 1 May 2019, In: *The Clinical Journal of Pain*. 35, 5, p. 435-442 8 p.

**Pain management after laparoscopic hysterectomy: Systematic review of literature and PROSPECT recommendations**

The PROSPECT Working Group Collaborators & Schug, S., 1 Apr 2019, In: *Regional Anesthesia and Pain Medicine*. 44, 4, p. 425-436 12 p.

**International Stakeholder Community of Pain Experts and Leaders Call for an Urgent Action on Forced Opioid Tapering**

Darnall, B. D., Juurlink, D., Kerns, R. D., Mackey, S., Van Dorsten, B., Humphreys, K., Gonzalez-Sotomayor, J. A., Furlan, A., Gordon, A. J., Gordon, D. B., Hoffman, D. E., Katz, J., Kertesz, S. G., Satel, S., Lawhern, R. A., Nicholson, K. M., Polomano, R. C., Williamson, O. D., McNally, H., Kao, M-C., & 84 others Schug, S., Twillman, R., Lewis, T. A., Stieg, R. L., Lorig, K., Mallick-Searle, T., West, R. W., Gray, S., Ariens, S. R., Sharpe Potter, J., Cowan, P., Kollas, C. D., Laird, D., Ingle, B., Julian Grove, J., Wilson, M., Lockman, K., Hodson, F., Palackdharry, C. S., Fillingim, R. B., Fudin, J., Barnhouse, J., Manhapra, A., Henson, S. R., Singer, B., Ljosenvoor, M., Griffith, M., Doctor, J. N., Hardin, K., London, C., Mankowski, J., Anderson, A., Ellsworth, L., Davis Budzinski, L., Brandt, B., Harkootley, G., Nickels Heck, D., Zobrosky, M. J., Cheek, C., Wilson, M., Laux, C. E., Datz, G., Dunaway, J., Schonfeld, E., Cady, M., LeDantec-Boswell, T., Craigie, M., Sturgeon, J., Flood, P., Giummarra, M., Whelan, J., Thorn, B. E., Martin, R. L., Schatman, M. E., Gregory, M. D., Kirz, J., Robinson, P., Marx, J. G., Stewart, J. R., Keck, P. S., Hadland, S. E., Murphy, J. L., Lumley, M. A., Brown, K. S., Leong, M. S., Fillman, M., Broatch, J. W., Perez, A., Wafford, K., Kruska, K., Sophia You, D., Ogbeide, S., Kukucka, A., Lawson, S., Ray, J. B., Wade Martin, T., Lakehomer, J. B., Burke, A., Cohen, R. I., Grinspoon, P., Rubenstein, M. S., Sutherland, S., Walters, K. & Lovejoy, T., 1 Mar 2019, In: *Pain Medicine (United States)*. 20, 3, p. 429-433 5 p.

**THE CHALLENGE OF OBESITY IN AN AUSTRALIAN PAIN MEDICINE CENTRE**

Browne, A. & Schug, S., Mar 2019, In: *Annals of Behavioral Medicine*. 53, p. S179-S179 1 p.

**The effect of guideline implementation on discharge analgesia prescribing (two years on)**

Stewart, J. E., Tuffin, P. H., Kay, J., Mohamad, A. H. T., Ritchie, K. L., Muthukuda, G., Popielewska, A. & Schug, S. A., 13 Feb 2019, In: *Anaesthesia and Intensive Care*. 47, 1, p. 40-44 5 p.

**Chronic pain as a symptom or a disease: the IASP Classification of Chronic Pain for the International Classification of Diseases (ICD-11)**

Treede, R. D., Rief, W., Barke, A., Aziz, Q., Bennett, M. I., Benoliel, R., Cohen, M., Evers, S., Finnerup, N. B., First, M. B., Giamberardino, M. A., Kaasa, S., Korwisi, B., Kosek, E., Lavand'homme, P., Nicholas, M., Perrot, S., Scholz, J., Schug, S., Smith, B. H., & 3 others Svensson, P., Vlaeyen, J. W. S. & Wang, S. J., 1 Jan 2019, In: *Pain*. 160, 1, p. 19-27 9 p.

**The atypical opioids buprenorphine, tramadol and tapentadol**

Schug, S. A., 1 Jan 2019, In: *Medicine Today*. 20, 1, p. 31-36 6 p.

**The IASP classification of chronic pain for ICD-11: chronic neuropathic pain**

Classification Committee of the Neuropathic Pain Special Interest Group (NeuPSIG), 1 Jan 2019, In: *Pain*. 160, 1, p. 53-59 7 p.

**The IASP classification of chronic pain for ICD-11: chronic postsurgical or posttraumatic pain**

IASP Taskforce for the Classification of Chronic Pain, 1 Jan 2019, In: *Pain*. 160, 1, p. 45-52 8 p.

**The Pharmacokinetics and Local Tolerability of a Novel Sublingual Formulation of Buprenorphine**

Lim, S. C. B., Schug, S. & Krishnarajah, J., 1 Jan 2019, In: *Pain Medicine*. 20, 1, p. 143-152 10 p., pnx321.

**The "opioid crisis"**

Schug, S., 2019, *Australasian Anaesthesia 2019: Invited papers and selected continuing education lectures*. Riley, R. (ed.). Melbourne: Australian and New Zealand College of Anaesthetists, p. 169-173

**The relationship between the reporting of euphoria events and early treatment responses to pregabalin: an exploratory post-hoc analysis**

Parsons, B., Freynhagen, R., Schug, S., Whalen, E., Ortiz, M., Brown, P. B. & Knapp, L., 2019, In: Journal of Pain Research. 12, p. 2577-2587 11 p.

**Risikostratifizierung bezüglich der Entwicklung von chronischem postoperativem Schmerz**

Schug, S. A. & Bruce, J., 1 Dec 2018, In: SCHMERZ. 32, 6, p. 471-476 6 p.

**Pilot field testing of the chronic pain classification for ICD-11: The results of ecological coding**

Barke, A., Korwisi, B., Casser, H. R., Fors, E. A., Geber, C., Schug, S. A., Stubhaug, A., Ushida, T., Wetterling, T., Rief, W. & Treede, R. D., 7 Nov 2018, In: BMC Public Health. 18, 1, 1239.

**Evidence-based management of pain after laparoscopic cholecystectomy: a PROSPECT review update**

Barazanchi, A. W. H., MacFater, W. S., Rahiri, J. L., Tutone, S., Hill, A. G., Joshi, G. P., Kehlet, H., Schug, S., Van de Velde, M., Vercauteren, M., Lirk, P., Rawal, N., Bonnet, F., Lavand'homme, P., Beloeil, H., Raeder, J. & Pogatzki-Zahn, E., Oct 2018, In: British Journal of Anaesthesia. 121, 4, p. 787-803 17 p.

**Perioperative lidocaine infusions for the prevention of chronic postsurgical pain: a systematic review and meta-analysis of efficacy and safety**

Bailey, M., Corcoran, T., Schug, S. & Toner, A., 1 Sept 2018, In: Pain. 159, 9, p. 1696-1704 9 p.

**Toxicity of tapentadol: a systematic review**

Channell, J. S. & Schug, S., Sept 2018, In: Pain Management. 8, 5, p. 327-339 13 p.

**Content validation of a Critical Appraisal Tool for Reviewing Analgesia Studies (CATRAS) involving subjects incapable of self-reporting pain**

Warne, L. N., Schug, S. A., Beths, T., Brondani, J. T., Carter, J. E., Lascelles, B. D. X., Rasis, A. L., Robertson, S. A., Steagall, P. V. M., Taylor, P. M., Whitem, T. & Bauquier, S. H., 1 Jul 2018, In: Pain Reports. 3, 4, e670.

**Depression and chronic pain**

Kostov, S. & Schug, S., 1 Jul 2018, In: Saudi Journal of Anaesthesia. 12, 3, p. 377-378 2 p.

**Procedure-Specific Pain Management (PROSPECT) – An update**

The PROSPECT Working Group Collaborators, Jun 2018, In: Best Practice and Research: Clinical Anaesthesiology. 32, 2, p. 101-111 11 p.

**Comorbid orofacial musculoskeletal pain and central sensitization treated with tapentadol: A case report**

Phoon Nguyen, A., Balasubramaniam, R., Al-Janaby, H. & Schug, S., 17 May 2018, In: American Journal of Oral Medicine. 4, 1, p. 10-15 6 p.

**Pregabalin versus placebo in targeting pro-nociceptive mechanisms to prevent chronic pain after whiplash injury in at-risk individuals -a feasibility study for a randomised controlled trial**

Nikles, J., Keijzers, G., Mitchell, G., Schug, S., Ware, R. S., McLean, S. A., Connelly, L., Gibson, S., Farrell, S. F. & Sterling, M., 17 Jan 2018, In: Trials. 19, 1, 44.

**Caution with the forthcoming rescheduling of over-the-counter codeine-containing analgesics**

Schug, S. A., Dobbin, M. D. H. & Pilgrim, J. L., 15 Jan 2018, In: Medical Journal of Australia. 208, 1, p. 51-+

**Multimodal drug therapies for postoperative pain control in adults**

Schug, S., 1 Jan 2018, *Pain after surgery*. Carr, D., Arendt-Nielsen, L. & Vissers, K. (eds.). Washington: IASP Press, p. 249-258 10 p.

**Epidural block and phantom limb pain**

Schug, S., 2018, *Landmark papers in pain: Seminal papers in pain with expert commentaries*. Farquhar-Smith, P., Beaulieu, P. & Jaggar, S. (eds.). Oxford: Oxford University Press, p. 192-194 3 p. (Landmark Papers In).

**Postoperative Pain: Mechanisms, Treatment and Organizational Aspects**

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**Does perioperative ketamine have a role in the prevention of chronic postsurgical pain: the ROCKeT trial**

Schug, S. A. & Peyton, P., 1 Nov 2017, In: *British Journal of Pain*. 11, 4, p. 166-168 3 p.

**Risk stratification for the development of chronic post surgical pain**

Schug, S. A. & Bruce, J., 1 Nov 2017, In: *Pain Reports*. 2, 6, p. e627 e627.

**The safety profile of parecoxib for the treatment of postoperative pain: A pooled analysis of 28 randomized, double-blind, placebo-controlled clinical trials and a review of over 10 years of postauthorization data**

Schug, S. A., Parsons, B., Li, C. & Xia, F., 10 Oct 2017, In: *Journal of Pain Research*. 10, p. 2451-2459 9 p.

**Guidelines for perioperative pain management: Need for re-evaluation**

The PROSPECT Working Group Collaborators, 1 Oct 2017, In: *British Journal of Anaesthesia*. 119, 4, p. 720-722 3 p.

**Pain after surgery-acute becomes chronic: might there be a silver ROCKeT?**

Schug, S. A., Jul 2017, In: *Anaesthesia and Intensive Care*. 45, 4, p. 439-440 2 p.

**Fentanyl Formulations in the Management of Pain: An Update**

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**The opioid epidemic and national guidelines for opioid therapy for chronic noncancer pain: a perspective from different continents**

Häuser, W., Schug, S. & Furlan, A. D., 1 May 2017, In: *Pain Reports*. 2, 3, p. e599 e599.

**Postoperative pain-from mechanisms to treatment**

Pogatzki-Zahn, E. M., Segelcke, D. & Schug, S. A., Mar 2017, In: *Pain Reports*. 2, 2, 16 p., e588.

**Evidence-Based Management of Pain After Excisional Haemorrhoidectomy Surgery: A PROSPECT Review Update**

Sammour, T., Barazanchi, A. W. H., Hill, A. G., Bonnet, F., Fischer, B., Joshi, G., Kehlet, H., Lirk, P., Rawal, N., Schug, S., Van de Velde, M., Vercauteren, M. & The PROSPECT Working Group Collaborators, 1 Feb 2017, In: *World Journal of Surgery*. 41, 2, p. 603-614 12 p.

**Effect of Concomitant Pain Medications on Response to Pregabalin in Patients with Postherpetic Neuralgia or Spinal Cord Injury-Related Neuropathic Pain**

Schug, S. A., Parsons, B., Almas, M. & Whalen, E., 11 Jan 2017, In: *Pain Physician*. 20, 1, p. E53-E63

**Acute and chronic musculoskeletal pain: Pharmacological management**

Schug, S. A. & Arshad, A. A. M., 1 Jan 2017, In: *Medicine Today*. 18, 1, p. 14-20 7 p.

**Tapentadol for combined chronic orofacial neuropathic and musculoskeletal pain**

Phoon Nguyen, A., Balasubramaniam, R., Al-Janaby, H. & Schug, S., 2017, In: *American Journal of Oral Medicine*. p. 10-15

**The efficacy and safety of Onsolis (fentanyl buccal) for the treatment of cancer pain**

Lauer-Riffard, S. & Schug, S. A., 2017, In: *Expert Reviews of Quality of Life in Cancer Care*. 2, 2, p. 61-66

**Pregabalin for the Treatment of Drug and Alcohol Withdrawal Symptoms: A Comprehensive Review**

Freyenhagen, R., Backonja, M., Schug, S., Lyndon, G., Parsons, B., Watt, S. & Behar, R., 1 Dec 2016, In: *CNS Drugs*. 30, 12, p. 1191-1200 10 p.

**Expert panel consensus recommendations for postoperative pain management in the Gulf region**

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**Acute pain management: Scientific evidence, fourth edition, 2015**

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**Postherpetic neuralgia How to prevent it, how to treat it**

Schug, S. A. & Arshad, A. A. M., Apr 2016, In: Medicine Today. 17, 4, p. 23-29 7 p.

**The pharmacogenomics of pain management: Prospects for personalized medicine**

Ting, S. & Schug, S., 10 Feb 2016, In: Journal of Pain Research. 9, p. 49-56 8 p.

**Acute Pain Management The Scientific Evidence: What is important for the GP**

Schug, S. A., 2016, *Expert Monograph: issue 1*. Healthed, Vol. issue 1.

**Opioid Receptor Agonists and Antagonists**

Schug, S. A., 2016, p. 68-72. 5 p.

**Peripheral neuropathy and post-amputation pain syndromes**

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Regli-von Ungern-Sternberg, B., Sommerfield, D., Schug, S. & Dunbar, C.

Department of Health (Western Australia): A\$269,912.00

1/01/22 → 31/12/24