Appendix I. Full text peer reviewed journal articles on training, curriculum design, and fellowship programs in regional anaesthesia. Listed by year of publication and first author. RA: regional anaesthesia; UGRA: ultrasound-guided regional anaesthesia; US: ultrasound.

Author (year)	Description	Comments
Chuan et al (2018) ¹	Narrative review of competency- based assessment tools for RA	Comprehensive review of assessment tools in RA
de Oliveira Filho & Mettrau (2018) ²	Study to evaluate effects of high- frequency, structured expert feedback on basic skills in UGRA	High-frequency, structured expert feedback resulted in shorter learning curves, smaller number of technical errors, but increased duration of training sessions
Allen & McEvoy (2017) ³	Editorial on how competence should be assessed RA	Sufficient procedural opportunities are required for training but they do little to advance trainees beyond minimal competence unless accompanied by quality assessment and educational feedback. Excellent graphical depiction of the relationship between quantity of blocks and quality of educational experience, and how they both correspond to competence
Chen et al (2017) ⁴	Systematic review on use of simulation in UGRA training	UGRA knowledge and skills significantly improved with simulation training
Chin et al (2017) ⁵	Study to evaluate the effect of a dedicated RA service incorporating a block room on the clinical effectiveness of RA	Done in an Australian setting, showed improved effectiveness of RA with a dedicated RA service
Eloy et al (2017) ⁶	Study to evaluate research productivity in anaesthesia	Identified a deficiency in research productivity in anaesthesia fellowships
Gleicher et al (2017) ⁷	Study to evaluate effect of a block room on workflow efficiency and block failure rate, specific to thoracic epidurals	Observed reduction of anaesthesia-controlled operating room time and decreased block failure rate
Ilfeld & Liguori (2017) ⁸	Editorial on Gleicher et al (2017) ⁷	Summary of the benefits and costs and instituting a block room/team for RA
Neal et al (2017) ⁹	Report on resident procedures and caseload in RA and Pain Medicine for 2015	While the proportion of RA cases has remained unchanged since 1990, more RA cases are now performed under peripheral nerve block and less cases performed under neuraxial blockade, compared to 2000
Chuan et al (2016) ¹⁰	Randomised controlled trial recruiting US novices. Comparison of low fidelity models (meat phantoms) versus high fidelity (human cadavers) when teaching US-guided needle tip visualisation skills	Low-fidelity models as useful as high-fidelity models for novice training
Gupta & Morton (2016) ¹¹	Editorial on Chuan et al (2016) ¹⁰	Wide-ranging editorial on competency, simulation in RA, United Kingdom approaches to training in UGRA
Kessler et al $(2016)^{12}$	Review article on UGRA training methods	Discusses evidence-based teaching methods for technical skills in UGRA, focusing on sonoanatomy,

		and needle tip visualisation. Includes discussion on novel techniques such as web-based teaching and technical skills competency
McCartney & Mariano (2016) ¹³	Editorial on education in RA	Focus predominantly on technical skills in junior trainees, forming basis for competencies expected by fellowship
Niazi et al (2016) ¹⁴	Narrative review article on UGRA training	Article drawing on experiences in surgical training. Incorporates medical education theories of pre-training, competency-based training, and simulation training
Tuyakov et al (2016) ¹⁵	Narrative review of UGRA training in Europe	Discusses integration of the European Diploma of Regional Anaesthesia into the curriculum
Udani et al (2016) ¹⁶	Randomised controlled trial comparing simulation-based deliberate practice training versus discovery training of RA skills	No difference between groups, though deliberate practice training took more education resources. However, outcomes were self-reported by participants.
Chuan et al (2015) ¹⁷	Development and evaluation of a workplace-based assessment tool specific for RA	Valid and reliable tool to assess trainee performance in RA
Corvetto et al (2015) ¹⁸	Online survey of anaesthetists on types of RA to be included in curriculum	Discussion of specific blocks necessary to learn during training
Mariano et al (2015) ¹⁹	Longer-term outcomes in post- fellowship anaesthetists given a didactic training program in UGRA	Possible to train consultants in UGRA skills, but limitations to skill uptake is linked to case exposure
Neal et al (2015) ²⁰	2013 survey of ex-fellows and fellowship directors in RA	Wide-ranging article on current practice and career paths of previous RA fellows
Sujatta & Oberarztin (2015) ²¹	Review article on medical education concepts and simulation for RA teaching	Covers technical skills, simulation (including novel virtual reality studies), and core aspects of RA curricula
The Regional Anesthesiology and Acute Pain Medicine Fellowship Directors Group (2015) ²²	Third edition of accreditation guidelines for fellowship training in RA and acute pain medicine	List of characteristics and attributes of a RA fellowship. Includes learning objectives and time in fellowship. For the teaching faculty, a list of qualifications and responsibilities of the RA director, and qualifications and required expertise of the RA teaching faculty
Udani et al (2015) ²³	Narrative review of the use of simulation in teaching RA	Discussion of simulator types, effectiveness, and future directions
Woodworth et al (2015) ²⁴	Creation of a Type-K multiple- choice question bank on sonoanatomy based on item response theory	Novel design and validation of an assessment tool to test theoretical UGRA knowledge
Kheterpal (2014) ²⁵	Editorial on Memtsoudis et al (2014) ²⁶	Discusses integration of research/academic activity in a fellowship program
Memtsoudis et al $(2014)^{26}$	Narrative article on single institution initiative to plan,	Discusses role of academic activity in a fellowship program

	implement, and run a research fellowship in RA	
O'Sullivan et al (2014) ²⁷	Randomised controlled trial on role of simulation training on axillary plexus UGRA	Trial stopped due to futility. Use of validated assessment tools to evaluate trainee performance of clinical procedures
Ouanes et al (2014) ²⁸	Narrative article on single institution initiative to develop a RA curriculum for residency	Adaptation of the John Hopkins centre curriculum. Comprehensive anatomy dissection and workshop, journal clubs, simulation sessions, web based learning, problem based tutorials, clinical assessment, and quality assurance activities
Slater et al (2014) ²⁹	Narrative review of theories underpinning technical skills uptake in RA	Thorough discourse of the theoretical educational models thought to influence motor skills learning relevant to RA. Practical examples of integrating these concepts into current teaching
Lansdown et al $(2013)^{30}$	Online survey of international RA fellowship directors	Snapshot of RA fellowship programs worldwide: characteristics, clinical exposure, and assessment of skills within these fellowships
Moon et al (2013) ³¹	Survey of RA teaching in US graduating residents	Large variability in teaching and clinical exposure amongst trainees
Nix et al (2013) ³²	Narrative review of education in RA, with a focus on UGRA	Several aspects of UGRA covered, including sonoanatomy, technical skills, needle tip visualisation, simulation, and assessment
Barrington et al (2012) ³³	Study to quantify number of RA procedures required for novices to gain competency at US needle visualization	Competency is attained at a variable rate
Cheung et al (2012) ³⁴	Development of a checklist and global rating scale for UGRA	Utilised Delphi method to develop checklist
Narouze et al (2012) ³⁵	First consensus statement on education and training in ultrasound-guided interventional pain procedures	Guidelines on characteristics and core competencies of US-guided pain procedures, relevant to a pain fellowship. Characteristics of the fellowship covered: clinical competencies, asepsis, US knowledge, interpersonal / communication skills, professionalism, and systems based practice
Neal (2012) ³⁶	Transcript of lecture on education in regional anesthesia	Personal viewpoint of a RA expert, journal editor on RA education. Covered diverse topics as caseloads, critical analysis of evidence, politics
Kopp & Smith (2011) ³⁷	Randomised controlled trial on web-based RA education versus traditional methods	Investigates novel use of web-based resources to teach RA
Russell et al (2011) ³⁸	Exposure of trainees at a single (Australian) institution to RA	Exposure of local ANZCA trainees to RA
The Regional Anesthesiology and Acute Pain	Second edition of accreditation guidelines for US fellowship	Older version of RA fellowship guidelines for the US

Medicine Fellowship Directors Group (2011) ³⁹	training in RA and acute pain medicine	
Tsui & Ip (2011) ⁴⁰	Editorial on formalised training for using ultrasound as a diagnostic tool	Using example of an incidental diagnosis on US, whether a set curriculum endorsed nationally will be of benefit to improve the competency of practitioners using ultrasound as a diagnostic tool
Ivani & Ferrante (2009) ⁴¹	Editorial on Sites (2009) ⁴²	Discussion on need for guidelines for UGRA education
Sites et al (2009) ⁴²	Joint American and European Society of Regional Anaesthesia guidelines on UGRA education	Outlines learning objectives in UGRA, characteristics of trainee and post-graduate education pathways, with a focus on technical skills
Smith et al (2009) ⁴³	Narrative review of single institution approach to RA education	Discusses integration of pre-training, needle tip skills, didactic teaching, simulation, cadaver dissection, and clinical teaching at the Mayo Clinic
Ilfeld et al (2007) ⁴⁴	Editorial on extending RA fellowships to 2 years' duration	Primary reason for extension is to incorporate academic activity. Discussion on the merits and disadvantages
Broking & Waurick (2006) ⁴⁵	Narrative review on essential components of a RA curriculum	Covered several components, raised the importance of administration and infrastructure to help support learning
Brown (2005) ⁴⁶	Editorial on Hargett et al (2005) ⁴⁷ and Neal et al (2005) ⁴⁸	Raised nuances on interpretation and conclusions from those studies
Hargett et al (2005) ⁴⁷	First edition of accreditation guidelines for fellowship training in RA and acute pain medicine	Original version of RA fellowship guidelines
Neal et al (2005) ⁴⁸	Survey of ex-RA fellows	20-year cohort of ex-fellows. Discussion on strengths and weaknesses of the RA curriculum
Brown & Boezart (2002) ⁴⁹	Editorial on Kopacz & Neal (2002) ⁵⁰	Large variability in case load and exposure amongst RA fellows
Hadzic et al (2002) ⁵¹	Narrative review of the RA curriculum	Argument that a core set of clinically appropriate blocks be well taught, as this provides the best set of tools for trainees in independent practice
Kopacz & Neal (2002) ⁵⁰	Retrospective review of an administrative database to determine use of RA by trainees	Discussion on the variability of case exposure between trainees and between institutions

Appendix 2. Articles of interest, consisting of non-peer-reviewed sources. Listed by year of publication and first author. RA: regional anaesthesia; UGRA: ultrasound-guided regional anaesthesia; US: ultrasound.

Author (year)	Description	Comments
Chuan (2016) ⁵²	PhD thesis on education and training in UGRA	A combination of six studies, investigating the psychometric properties of the direct observation of procedural skills (DOPS) tool, a specific workplace- based assessment tool for RA, and methods to improve UGRA training
Shafqat (2016) ⁵³	PhD thesis on education and training in UGRA	A combination of three studies, investigating visuospatial ability as a predictor of novice performance in UGRA, an objective structured assessment tool, and the impact of video games on RA skills
Thomas & Kaur (2016) ⁵⁴	Survey of trainee confidence after learning RA in a block room	Direct supervision by expert faculty best determinant of confidence
Gonzales et al (2015) ⁵⁵	Study to determine if institutions with RA/Acute Pain fellowships had better patient pain satisfaction scores	Slight advantage in one outcome measure, but none overall
Lim et al (2015) ⁵⁶	Survey of UGRA education and training programs	High variability of exposure to RA and UGRA in Singapore
Maniker et al (2015) ⁵⁷	Description of a web-based RA curriculum for residents	Curriculum analytics allows for continual monitoring of trainee progress and for improving curricular structure
Sodha & Sengupta (2015) ⁵⁸	Survey of RA education and training	High variability of exposure to RA and UGRA in the United Kingdom
Wilson (2015) ⁵⁹	Survey of RA and Acute Pain fellows	RA fellowship programs in the United States are consistent with respect to duration, volume, level of supervision, involvement in research/teaching, and acute pain rounds. However, lacking in simulation sessions, cadaver dissection, and formal competency assessment
Wordsworth et al (2015) ⁶⁰	Survey of RA education and training	High variability of exposure to RA and UGRA in the United Kingdom
De Andres (2014) ⁶¹	Lecture on evolution of training and education in RA and pain medicine	Discusses change from apprenticeship to competency-based teaching models
Gomes et al (2014) ⁶²	Survey of RA education and training	High variability of exposure to RA and UGRA in Portugal
Khan et al (2014) ⁶³	Survey of academic activity and fellowships	Link between exposure to research projects during fellowship to post-fellowship research and academic activity
McConville & Skibowski (2014) ⁶⁴	Survey of trainee confidence after institution of didactic and hands on UGRA workshops	Highlights importance of local faculty and trainees participating together to enhance the training experiences

Bedforth (2013) ⁶⁵	Lecture on guidelines for UGRA training	Discusses importance of the guidelines and the UGRA program director to improve the training of fellows
Borgeat (2013) ⁶⁶	Lecture on learning curves and accreditation in UGRA	Discusses differences between log book competency and true learning objectives in competency-based accreditation
Koscielniak- Nielsen (2013) ⁶⁷	Lecture on the European Diploma of Regional Anaesthesia	Accreditation of UGRA skills based on competency- based assessment
Neal (2013) ⁶⁸	Lecture on learning curves and accreditation in UGRA	Discussion on moving away from log books to focus on competency of skills in determining accreditation
Boretsky (2012) ⁶⁹	Lecture on development of an additional year fellowship in paediatric RA	Description of integration into an existing adult RA fellowship structure, but with specific paediatric applications
The Zuers Experts (2007) ⁷⁰	Expert consensus statement on describing, performing, and teaching UGRA	Formulated various definitions for UGRA that are commonly used today

Appendix 3. Documents published by institutions involved in RA training and education. Listed by institution and year of publication. AAGBI: Association of Anaesthetists of Great Britain & Ireland; ACGME: Accreditation Council for Graduate Medical Education; ANZCA: Australian and New Zealand College of Anaesthetists; CCT: Certificate of Completion of Training; EDRA: European Diploma in Regional Anaesthesia and Acute Pain Management; ESRA: European Society of Regional Anaesthesia & Pain Therapy; RCoA: Royal College of Anaesthetists; RCPSC: Royal College of Physicians and Surgeons of Canada; UEA: University of East Anglia.

Institution (Year)	Document
AAGBI et al (2011) ⁷¹	Ultrasound in Anaesthesia and Intensive Care: A Guide to Training
ACGME (2016) ⁷²	ACGME Program Requirements for Regional Anesthesiology and Acute Pain Medicine
ACGME (2016) ⁷³	Frequently Asked Questions: Regional Anesthesiology and Acute Pain Medicine
ANZCA (2017) ⁷⁴	Handbook for Training and Accreditation (ver. 1.5)
ANZCA (2017) ⁷⁵	Anaesthesia Training Program Curriculum (ver. 1.7)
ANZCA (2014) ⁷⁶	PS03 – Guidelines for the Management of Major Regional Analgesia
ANZCA (2013) ⁷⁷	PS41 – Guidelines on Acute Pain Management
ESRA (2017) ⁷⁸	EDRA extended Syllabus / Curriculum
ESRA (2017) ⁷⁹	EDRA application requirements
RCoA (2010) ⁸⁰	CCT in Anaesthetics: Annex B - Core Level Training (ver. 1.8)
RCoA (2010) ⁸¹	CCT in Anaesthetics: Annex C - Intermediate Level Training (ver. 1.8)
RCoA (2010) ⁸²	CCT in Anaesthetics: Annex D - Higher Level Training (ver. 1.8)
RCoA (2010) ⁸³	CCT in Anaesthetics: Annex E - Advanced Level Training (ver. 1.8)
RCPSC (2014) ⁸⁴	National Curriculum for Canadian Anesthesiology Residency
UEA (2016) ⁸⁵	MSc in Regional Anaesthesia: Student Handbook 2015-2016

References

1. *Chuan A, Wan AS, Royse CF, Forrest K*. Competency-based assessment tools for regional anaesthesia: a narrative review. BJA. 2018; 120: 264-73.

2. *de Oliveira Filho GR, Mettrau FdAC*. The effect of high-frequency, structured expert feedback on the learning curves of basic interventional ultrasound skills applied to regional anesthesia. Anesth Analg. 2018; 126: 1028-34.

3. *Allen BFS, McEvoy MD*. Competency assessment in regional anesthesia: quantity today, quality tomorrow. Regional Anesthesia and Pain Medicine. 2017; 42: 429-31.

4. *Chen XX, Trivedi V, AlSaflan AA, et al.* Ultrasound-guided regional anesthesia simulation training: a systematic review. Regional Anesthesia and Pain Medicine. 2017; 42: 741-50.

5. *Chin A, Heywood L, lu P, Pelecanos AM, Barrington MJ*. The effectiveness of regional anaesthesia before and after the introduction of a dedicated regional anaesthesia service incorporating a block room. Anaesth Intensive Care. 2017; 45: 714-9.

6. *Eloy JD, Amin MD, Pashkova AA, Svider PF, Mauro KM, Eloy JA*. Fellowships represent a logical target for cultivating research in academic anesthesiology. Journal of Education in Perioperative Medicine. 2017; 19: 1-8.

7. *Gleicher Y, Singer O, Choi S, McHardy P*. Thoracic epidural catheter placement in a preoperative block area improves operating room eficiency and decreases epidural failure rate. Regional Anesthesia and Pain Medicine. 2017; 42: 649-51.

8. *Ilfeld BM, Liguori GA*. Regional anesthesia "block rooms": should they be universal? Look to Goldilocks (and her 3 bears) for the answer. Regional Anesthesia and Pain Medicine. 2017; 42: 551-3.

9. *Neal JM, Sullivan AG, Rosenquist RW, Kopacz DJ*. Regional Anesthesia and Pain Medicine: US anesthesiology resident training - the year 2015. Regional Anesthesia and Pain Medicine. 2017; 42.

10. *Chuan A, Lim YC, Aneja H, et al.* A randomised controlled trial comparing meat-based with human cadaveric models for teaching ultrasound-guided regional anaesthesia. Anaesthesia. 2016; 71: 921-9.

11. *Gupta AK, Morton JR*. Cadaveric training - the solution for ultrasound-guided regional anaesthesia? Anaesthesia. 2016; 71: 874-8.

12. *Kessler J, Wegener JT, Hollmann MW, Stevens MF*. Teaching concepts in ultrasound-guided regional anesthesia. Curr Opin Anesthesiol. 2016; 29: 608-13.

13. *McCartney CJL, Mariano ER*. Education in ultrasound-guided regional anesthesia: lots of learning left to do. Regional Anesthesia and Pain Medicine. 2016; 41: 663-4.

14. *Niazi AU, Peng PW, Ho M, Tiwari A, Chan VW*. The future of regional anesthesia education: lessons learned from the surgical specialty. Can J Anesth. 2016; 63: 966-72.

15. *Tuyakov B, Braczkowska M, Mieszkowski M, Onichimowski D, Mayzner-Zawadzka E*. Training in regional anesthesia. Polish Annals of Medicine. 2016; 23: 80-5.

16. *Udani AD, Harrison TK, Mariano ER, et al.* Comparative-effectiveness of simulation-based deliberate practice versus self-guided practice on resident anesthesiologists' acquisition of ultrasound-guided regional anesthesia skills. Regional Anesthesia and Pain Medicine. 2016; 41: 151-7.

17. *Chuan A, Graham PL, Wong DM, et al.* Design and validation of the Regional Anaesthesia Procedural Skills Assessment Tool. Anaesthesia. 2015; 70: 1401-11.

18. *Corvetto MA, Echevarria GC, Espinoza AM, Altermatt FR*. Which types of peripheral nerve blocks should be included in residency training programs? BMC Anesthesiology. 2015; 15: 32.

19. *Mariano ER, Harrison TK, Kim TE, et al.* Evaluation of a standardized program for training practicing anesthesiologists in ultrasound-guided regional anesthesia skills. J Ultrasound Med. 2015; 34: 1883-93.

20. *Neal JM, Liguori GA, Hargett MJ*. The training and careers of Regional Anesthesiology and Acute Pain Medicine Fellows, 2013. Regional Anesthesia and Pain Medicine. 2015; 40: 218-22.

21. *Sujatta S, Oberarztin L*. First of all: Do not harm! Use of simulation for the training of regional anaesthesia techniques: Which skills can be trained without the patient as substitute for a mannequin. Best Practice & Research Clinical Anaesthesiology. 2015; 29: 69-80.

22. *The Regional Anesthesiology and Acute Pain Medicine Fellowship Directors Group*. Guidelines for Fellowship Training in Regional Anesthesiology and Acute Pain Medicine. Third Edition, 2014. Regional Anesthesia and Pain Medicine. 2015; 40: 213-7.

23. *Udani AD, Kim TE, Howard SK, Mariano ER*. Simulation in teaching regional anesthesia: current perspectives. Local and Regional Anesthesia. 2015; 8: 33-43.

24. *Woodworth GE, Carney PA, Cohen JM, et al.* Development and validation of an assessment of regional anesthesia ultrasound interpretation skills. Regional Anesthesia and Pain Medicine. 2015; 40: 306-14.

25. *Kheterpal S.* Perioperative regional anesthesia fellowships: a blueprint for success. Regional Anesthesia and Pain Medicine. 2014; 39: 359-60.

26. *Memtsoudis SG, Mazumdar M, Stundner O, Hargett MJ*. Perioperative research fellowship: planning, implementation, experience. Regional Anesthesia and Pain Medicine. 2014; 39: 363-7.

27. O'Sullivan O, Iohom G, O'Donnell BD, Shorten GD. The effect of simulation-based training on initial performance of ultrasound-guided axillary brachial plexus blockade in a clinical setting - a pilot study. BMC Anesthesiology. 2014; 14: 110.

28. *Ouanes JP, Schwengel D, Mathur V, Ahmed OI, Hanna MN*. Curriculum development for an advanced regional anesthesia education program: one institution's experience from apprenticeship to comprehensive teaching. Middle East Journal of Anesthesiology. 2014; 22: 413-8.

Slater RJ, Castanelli DJ, Barrington MJ. Learning and teaching motor skills in regional anesthesia: a different perspective. Regional Anesthesia and Pain Medicine. 2014; 39: 230-9.
 Lansdown AK, McHardy PG, Patel SC, Nix CM, McCartney CJL. Survey of international and the statement of th

regional anesthesia fellowship directors. Local and Regional Anesthesia. 2013; 6: 17-24.
31. *Moon TS, Lim E, Kinjo S*. A survey of education and confidence level among graduating anesthesia residents with regard to selected peripheral nerve blocks. BMC Anesthesiology. 2013; 2013: 16.

32. *Nix CM, Margarido CB, Awad IT, et al.* A scoping review of the evidence for teaching ultrasound-guided regional anesthesia. Regional Anesthesia and Pain Medicine. 2013; 38: 471-80.
33. *Barrington MJ, Wong DM, Slater B, Ivanusic JJ, Ovens M*. Ultrasound-guided regional

anesthesia: how much practice do novices require before achieving competency in ultrasound needle visualization using a cadaver model. Regional Anesthesia and Pain Medicine. 2012; 37: 334-9.

34. *Cheung JJH, Chen EW, Darani R, McCartney CJL, Dubrowski A, Awad IT*. The creation of an objective assessment tool for ultrasound-guided regional anesthesia using the Delphi method. Regional Anesthesia and Pain Medicine. 2012; 37: 329-33.

35. *Narouze SN, Provenzano D, Peng P, et al.* The American Society of Regional Anesthesia and Pain Medicine, the European Society of Regional Anaesthesia and Pain Therapy, and the Asian Australasian Federation of Pain Societies Joint Committee Recommendations for Education and Training in Ultrasound-Guided Interventional Pain Procedures. Regional Anesthesia and Pain Medicine. 2012; 37: 657-64.

36. *Neal JM*. Education in regional anesthesia. Caseloads, simulation, journals, and politics: 2011 Carl Koller Lecture. Regional Anesthesia and Pain Medicine. 2012; 37: 647-51.

37. *Kopp SM, Smith HL*. Developing effective web-based regional anesthesia education - a randomized study evaluating case-based versus non - case-based module design. Regional Anesthesia and Pain Medicine. 2011; 2011.

38. *Russell T, Clarke R, Gardner A, Hennessy B, Watts SA*. Anaesthesia trainees' exposure to regional anaesthesia in an Australian tertiary adult teaching hospital. Anaesth Intensive Care. 2011; 39: 472-6.

39. *The Regional Anesthesiology and Acute Pain Medicine Fellowship Directors Group*. Guidelines for Fellowship Training in Regional Anesthesiology and Acute Pain Medicine. Second Edition, 2010. Regional Anesthesia and Pain Medicine. 2011; 36: 282-8.

40. *Tsui BCH, Ip VHY*. Ultrasound beyond regional anesthesia: formal training? Can J Anesth. 2011; 58: 499-503.

41. *Ivani G, Ferrante FM*. The American Society of Regional Anesthesia and Pain Medicine and the European Society of Regional Anaesthesia and Pain Therapy Joint Committee

Recommendations for Education and Training in Ultrasound Guided Regional Anesthesia. Why do we need these guidelines? Regional Anesthesia and Pain Medicine. 2009; 34: 8-9.

42. *Sites BD, Chan VW, Neal JM, et al.* The American Society of Regional Anesthesia and Pain Medicine and the European Society of Regional Anaesthesia and Pain Therapy Joint Committee Recommendations for Education and Training in Ultrasound-Guided Regional Anesthesia. Regional Anesthesia and Pain Medicine. 2009; 34: 40-6.

43. *Smith HM, Kopp SL, Jacob AK, Torsher LC, Hebl JR*. Designing and implementing a comprehensive learner-centered regional anesthesia curriculum. Regional Anesthesia and Pain Medicine. 2009; 34: 88-94.

44. *Ilfeld BM, Yaksh TL, Neal JM*. Mandating two-year regional anesthesia fellowships: fanning the academic flame or extinguishing it? Regional Anesthesia and Pain Medicine. 2007; 32: 275-9.
45. *Broking K, Waurick R*. How to teach regional anesthesia. Curr Opin Anesthesiol. 2006; 19: 526-30.

46. *Brown DL*. Fellowship training in regional anesthesia. Regional Anesthesia and Pain Medicine. 2005; 30: 215-7.

47. *Hargett MJ, Beckman JD, Liguori GA, Neal JM*. Guidelines for regional anesthesia fellowship training. Regional Anesthesia and Pain Medicine. 2005; 30: 218-25.

48. Neal JM, Kopacz DJ, Liguori GA, Beckman JD, Hargett MJ. The training and careers of regional anesthesia fellows - 1983-2002. Regional Anesthesia and Pain Medicine. 2005; 30: 226-32.
49. Brown DL, Boezart A. Regional training circa 2000: what's really new. Regional Anesthesia and Pain Medicine. 2002; 27: 1-2.

50. *Kopacz DJ, Neal JM*. Regional Anesthesia and Pain Medicine: residency training - the year 2000. Regional Anesthesia and Pain Medicine. 2002; 27: 9-14.

51. *Hadzic A, Vloka JD, Koenigsamen J*. Training requirements for peripheral nerve blocks. Curr Opin Anesthesiol. 2002; 15: 669-73.

52. Chuan AHH. Education and Training in Ultrasound-Guided Regional Anaesthesia [PhD thesis]. Sydney, Australia: Macquarie University; 2016.

53. Shafqat A. Education and training in ultrasound-guided regional anaesthesia (UGRA) [PhD thesis]: University of Nottingham; 2016.

54. *Thomas P, Kaur K*. Survey of an aesthetic trainee's exposure to, and confidence to perform, ultrasound guided regional blocks following learning in a dedicated block room (abstract). Regional Anesthesia and Pain Medicine. 2016; 41: e160.

55. *Gonzales J, Eckle T, Romano O*. A regional fellowship impacts HCAHPS survey scores regarding satisfaction with pain management at academic institutions (abstract). Regional Anesthesia and Pain Medicine. 2015; 40: (no pagination).

56. *Lim YC, Ng M, Mah CL*. A survey of education and training programmes in ultrasound-guided regional anaesthesia (abstract). Regional Anesthesia and Pain Medicine. 2015; 40: e166.

57. *Maniker R, Ivie R, Woodworth G*. A collaborative, peer-reviewed, web-based regional anesthesia curriculum: setting a new standard for anesthesia education (abstract). Regional Anesthesia and Pain Medicine. 2015; 40: (no pagination).

58. Sodha S, Sengupta P. Survey of regional anaesthesia training amongst trainees and staff and specialty grade anaesthetists at a large district general hospital in the UK (abstract). Regional Anesthesia and Pain Medicine. 2015; 40: e124.

59. *Wilson E.* Survey of former regional anesthesiology and acute pain fellows (abstract). Regional Anesthesia and Pain Medicine. 2015; 40: (no pagination).

60. *Wordsworth H, Bellew B, Galton S*. Familiarity of London trainees with regional anaesthesia: the development of a trainee-led ultrasound guided regional anaesthesia course (abstract). Anaesthesia. 2015; 70: 100.

61. *De Andres J.* The evolution of training and education in regional anesthesia and pain medicine (abstract). Regional Anesthesia and Pain Medicine. 2014; 39: e121-e3.

62. *Gomes D, Barros J, Lobo C*. Are anesthesiology residency programmes preparing future specialists to perform peripheral nerve blocks (abstract). Regional Anesthesia and Pain Medicine. 2014; 39: e320.

63. *Khan JS, Gilbert J, Chaudhry K, Le Manach Y, Yee D*. Factors influencing fellowship training and future research (abstract). Canadian Journal of Anesthesia. 2014; 61: S129.

64. *McConville B, Skibowski E*. Trainee led ultrasound teaching in regional anaesthesia in a district general hospital (abstract). Anaesthesia. 2014; 69: 96.

65. *Bedforth NM*. ESRA: How is competence defined when learning regional anaesthesia? (abstract). Regional Anesthesia and Pain Medicine. 2013; 38: e60-e2.

66. *Borgeat A*. ESRA: How to acquire the necessary experience in RA (abstract). Regional Anesthesia and Pain Medicine. 2013; 38: e62.

67. *Koscielniak-Nielsen Z*. Education for building knowledge and safety in delivering regional anaesthesia: ESRA-who should provide accreditation? (abstract). Regional Anesthesia and Pain Medicine. 2013; 38: e64.

68. *Neal JM*. ASRA: How is competence defined when learning RA (abstract). Regional Anesthesia and Pain Medicine. 2013; 38: e62-e3.

69. *Boretsky K, Hall-Burton DM, Chelly J*. Training pediatric regional anesthesiologists, a new approach (abstract). Regional Anesthesia and Pain Medicine. 2012; 37: (no pagination).

70. *The Zuers Experts*. Zuers Ultrasound Experts Regional Anaesthesia Statement (ZUERS): January 2007. ESA Newsletter. 2007; 30: 9-11.

71. The Association of Anaesthetists of Great Britain & Ireland, The Royal College of
Anaesthetists, Society TIC. Ultrasound in Anaesthesia and Intensive Care: A Guide to Training. 2011.
72. ACGME Program Requirements for Regional Anesthesiology and Acute Pain Medicine:

Accreditation Council for Graduate Medical Education; 2016 [10 October 2017]. Available from: https://www.acgme.org/Portals/0/046_RAAPM_PRs_RC.pdf.

73. Review Committee for Anesthesiology. Frequently Asked Questions: Regional
Anesthesiology and Acute Pain Medicine: Accreditation Council for Graduate Medical Education;
2016 [10 October 2017]. Available from:

https://www.acgme.org/Portals/0/PDFs/FAQ/046 RAAPM FAQs.pdf.

74. ANZCA Handbook for Training and Accreditation (ver. 1.5): Australian and New Zealand College of Anaesthetists; 2017.

75. Anaesthesia training program curriculum (ver. 1.7): Australian and New Zealand College of Anaesthetists; 2017.

76. PS03 - Guidelines for the Management of Major Regional Analgesia: Australian and New Zealand College of Anaesthetists; 2014 [10 October 2017]. Available from:

http://www.anzca.edu.au/documents/ps03-2014-guidelines-for-the-management-of-major-r.pdf.

77. PS41 - Guidelines on Acute Pain Management: Australian and New Zealand College of Anaesthetists; 2013 [10 October 2017]. Available from:

http://www.anzca.edu.au/documents/ps41-2013-guidelines-on-acute-pain-management.pdf. 78. EDRA extended Syllabus / Curriculum: European Society of Regional Anaesthesia & Pain

Therapy; 2017 [10 October 2017]. Available from:

http://esraeurope.org/assets/medias/2017/03/EDRA-extended-Syllabus-03.2017.pdf.

79. EDRA application requirements 2017: European Society of Regional Anaesthesia & Pain Therapy; 2017. Available from: <u>http://esraeurope.org/assets/medias/2017/03/EDRA-application-requirements-2017.pdf</u>.

80. CCT in Anaesthetics: Annex B - Core Level Training (ver. 1.8). 2nd ed: Royal College of Anaesthetists; 2010.

81. CCT in Anaesthetics: Annex C - Intermediate Level Training (ver. 1.8). 2nd ed: Royal College of Anaesthetists; 2010.

82. CCT in Anaesthetics: Annex D - Higher Level Training (ver. 1.8). 2nd ed: Royal College of Anaesthetists; 2010.

83. CCT in Anaesthetics: Annex E - Advanced Level Training (ver. 1.8). 2nd ed: Royal College of Anaesthetists; 2010.

84. National Curriculum for Canadian Anesthesiology Residency. 1st ed. Levine M, Murphy P, Stewart J, Pierce D, editors. Ottawa: Royal College of Physicians and Surgeons of Canada; 2014.

85. MSc in Regional Anaesthesia: Student Handbook 2015-2016. Norwich: University of East Anglia; 2016.