

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

Authors

Dr Mark Rockett
Consultant in Anaesthetics and Pain Management
Plymouth University Hospitals NHS Trust

Dr Anna Weiss
Consultant in Anaesthetics and Pain Management
Royal Cornwall Hospital NHS Trust

Dr James Taylor
Consultant in Pain Management and Anaesthesia
Bradford Teaching Hospital

Chapter Development Group Members

Dr Rishi Diwan
Consultant Paediatric Anaesthetist & Pain Lead
Alder Hey Children's Hospital NHS Foundation Trust
Liverpool, UK

Dr William Rea
Consultant Anaesthesia
Royal Orthopaedic Hospital
Birmingham, UK

Dr David Hutchins
Anaesthetist in training
South West School Anaesthesia

Dr Peter Paisley
Consultant Anaesthetist
Queen Elizabeth University Hospital
Glasgow, UK

Dr Antonio Martinazzo
Staff Grade Anaesthetist
NHS Ayrshire & Arran
Scotland, UK

Dr Olivera Potparic
Immediate past Chair AAGBI SAS Committee
Associate Specialist Anaesthetist
Chelsea and Westminster NHS Foundation Trust
London, UK

Mr Greg Barton
Royal Pharmaceutical Society
Specialist pharmacist critical care/burns
St Helens and Knowsley Teaching Hospitals NHS Trust

Mrs Jenny Dorey
Royal College of Anaesthetists
Lay committee

Ms Manda Dunne
Senior Anaesthetic and Recovery Sister
British Anaesthetic & Recovery Nurses Association
London, UK

Mr Markku Viherlaiho
Senior Anaesthetic and Recovery Sister
British Anaesthetic & Recovery Nurses Association
London, UK

Ms Harriet Barker
British Pain Society
Lead Nurse Pain Services
Ashford and St Peter's Hospitals NHS Foundation Trust

Acknowledgements

Peer Reviewers

Dr Sonia Pierce
Consultant in Anaesthesia & Pain Medicine
RCOA Regional Adviser in Pain Medicine, Wales
Betsi Cadwaladr University Health Board

Dr Bhaskar Saha
Consultant Anaesthetist
Royal Oldham Hospital

Chapter development technical team

Dr Rachel Evley
Senior Research Fellow
University of Nottingham

Ms Ruth Nichols
Royal College of Anaesthetists

Miss Nicola Hancock
Royal College of Anaesthetists

Ms Carly Melbourne
Royal College of Anaesthetists

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

Declarations of Interest

1 All Chapter Development Group (CDG) members, stakeholders and external peer reviewers were asked to
2 declare any pecuniary or non-pecuniary conflict of interest, in line with the GPAS conflict of interest policy as
3 described in the [GPAS chapter development process document](#).

4 Declarations were made as follows:

- 5 • three members were involved in producing one or more of the items of evidence.

6 The nature of the involvement in all declarations made was not determined as being a risk to the transparency
7 or impartiality of the chapter development. Where a member was conflicted in relation to a particular piece
8 of evidence, they were asked to declare this and then if necessary removed themselves from the discussion of
9 that particular piece of evidence and any recommendation pertaining to it.

Medico-legal implications of GPAS guidelines

11 *GPAS guidelines are not intended to be construed or to serve as a standard of clinical care. Standards of care*
12 *are determined on the basis of all clinical data available for an individual case and are subject to change as*
13 *scientific knowledge and technology advance and patterns of care evolve. Adherence to guideline*
14 *recommendations will not ensure successful outcome in every case, nor should they be construed as including*
15 *all proper methods of care or excluding other acceptable methods of care aimed at the same results. The*
16 *ultimate judgement must be made by the appropriate healthcare professional(s) responsible for clinical*
17 *decisions regarding a particular clinical procedure or treatment plan. This judgement should only be arrived at*
18 *following discussion of the options with the patient, covering the diagnostic and treatment choices available.*
19 *It is advised, however, that significant departures from the national guideline or any local guidelines derived*
20 *from it should be fully documented in the patient's case notes at the time the relevant decision is taken.*

Promoting equality and addressing health inequalities

21 The Royal College of Anaesthetists is committed to promoting equality and addressing health inequalities.
22 Throughout the development of these guidelines we have:

- 24 • given due regard to the need to eliminate discrimination, harassment and victimisation, to advance
25 equality of opportunity, and to foster good relations between people who share a relevant protected
26 characteristic (as cited under the Equality Act 2010) and those who do not share it
- 27 • given regard to the need to reduce inequalities between patients in access to, and outcomes from
28 healthcare services and to ensure services are provided in an integrated way where this might reduce
29 health inequalities.

GPAS guidelines in context

31 The guidelines for the provision of anaesthetic services (GPAS) documents should be viewed as 'living
32 documents'. The GPAS guidelines development, implementation and review should be seen not as a linear
33 process, but as a cycle of interdependent activities. These in turn are part of a range of activities to translate
34 evidence into practice, set standards and promote clinical excellence in patient care.

35 Each of the GPAS chapters should be seen as independent but interlinked documents. Guidelines on the
36 general provision of anaesthetic services are detailed in the following chapters of GPAS:

- 37 • [Chapter 2: Guidelines for the provision of anaesthesia services for preoperative assessment and](#)
38 [preparation](#)
- 39 • [Chapter 3: Guidelines for the provision of anaesthesia services for intraoperative care](#)
- 40 • [Chapter 4: Guidelines for the provision of anaesthesia services for postoperative care](#)

41 These guidelines apply to all patients who require anaesthesia or sedation, and are under the care of an
42 anaesthetist. For urgent or immediate emergency interventions, this guidance may need to be modified as
43 described in [Chapter 5: Guidelines for the provision of emergency anaesthesia](#).

44 The rest of the chapters of GPAS apply only to the population groups and settings outlined in the 'Scope'
45 section of these chapters. They outline guidance that is additional, different or particularly important to those
46 population groups and settings included in the 'Scope'. Unless otherwise stated within the chapter, the
47 recommendations outlined in GPAS chapters 2–5 still apply.

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

48 Each chapter will undergo yearly review, and will be continuously updated in the light of new evidence.

49 Guidelines alone will not result in better treatment and care for patients. Local and national implementation is
50 crucial for changes in practice necessary for improvements in treatment and patient care.

51 **Aims and objectives**

52 The objective of this chapter is to promote current best practice for the delivery of inpatient pain
53 management by anaesthesia services. The guidance is intended for use by anaesthetists with responsibilities
54 for service delivery and healthcare managers.

55 This guideline does not comprehensively describe clinical best practice relating to inpatient pain
56 management, but is primarily concerned with the requirements for the provision of a safe, effective, well-led
57 service, which may be delivered by many different acceptable models. The guidance on provision of
58 inpatient pain management applies to all settings where this is undertaken, regardless of funding. All age
59 groups are included within the guidance unless otherwise stated, reflecting the broad nature of this service.

60 A wide range of evidence has been rigorously reviewed during the production of this chapter, including
61 recommendations from peer-reviewed publications and national guidance where available. However, both
62 the authors and the CDG agreed that there is a paucity of Level 1 evidence relating to service provision in
63 inpatient pain management. In some cases, it has been necessary to include recommendations of good
64 practice based on the clinical experience of the CDG. We hope that this document will act as a stimulus to
65 future research.

66 The recommendations in this chapter will support the RCoA's Anaesthesia Clinical Services Accreditation
67 (ACSA) process.

68 **Scope**

69 **Target audience**

70 All staff groups working in inpatient pain services, including (but not restricted to) consultant anaesthetists,
71 specialty doctor and associate specialist (SAS) anaesthetists, trainee anaesthetists, nurses and allied health
72 professionals contributing to a multidisciplinary approach to good pain management.

73 **Target population**

74 All ages of patients requiring inpatient pain services.

75 **Healthcare setting**

76 All settings within the hospital in which anaesthesia services for inpatient pain services are provided.

77 **Clinical management**

- 78 • Key components for the provision of anaesthesia services for inpatient pain services
- 79 • Key components needed to ensure provision of high quality anaesthetic services for inpatient pain
80 services
- 81 • Areas of provision considered:
 - 82 – levels of provision of service, including (but not restricted to) staffing, equipment, support services
83 and facilities
 - 84 – areas of special requirement, such as paediatric patients, obstetric patients, obese patients, elderly
85 patients and patients with mental health problems and learning difficulties.
 - 86 – training and education
 - 87 – research and audit
 - 88 – organisation and administration
 - 89 – patient information.
 - 90
 - 91

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

92 Exclusions

- 93 • Provision of inpatient pain services by a specialty other than anaesthesia.
- 94 • Clinical issues that will not be covered:
 - 95 - clinical guidelines specifying how healthcare professionals should care for patients
 - 96 - national-level issues.

97 Introduction

98 The inpatient pain service (IPS) consists of a multidisciplinary team including appropriately trained acute pain
99 physicians and anaesthetists along with nurses specialised in pain management. Other allied health
100 professionals such as applied psychologists, addiction medicine specialists, physiotherapists and pharmacists
101 may also be part of the IPS team.

102 After the publication of the joint working party of the Royal College of Surgeons and College of Anaesthetists
103 report "Pain after Surgery" document in 1990, the provision of IPSs in UK hospitals expanded rapidly.¹ The
104 percentage of UK hospitals with an IPS increased from 44% in 1995 to >80% in 2004. However, further progress
105 has been difficult to sustain, particularly in terms of quality and consistency.^{2,3} Recent UK and European
106 surveys of IPSs demonstrate a wide variation in service provision, with many IPSs not meeting minimal quality
107 standards (for example, 45% of German IPSs met the specified standards in 2016).^{4,5} A British survey in 2004
108 revealed that 69% of IPSs felt they were "struggling or non-existent".³ Clinicians agree that most of the reasons
109 for the failure of IPSs to meet standards are organisational rather than technical; financial constraints were
110 cited as being the major reason for failure in 53% of cases.^{2,3} It has proved difficult to implement early
111 recommendations despite support from the Chief Medical Officer in his report of 2009.⁶

112 The Faculty of Pain Medicine (FPM) of the Royal College of Anaesthetists produced the document Core
113 Standards for Pain Management Services in the UK in 2015 (CSPMSUK).⁷ This chapter should be read with
114 reference to CSPMSUK, which informs part of the requirements detailed below. CSPMSUK provides a detailed
115 model for IPSs to emulate. Recent national audit has revealed that most IPSs do not meet the standards
116 recommended in CSPMSUK in terms of staffing provision.⁸

117 Where benchmarking against national standards has identified shortcomings, organisational change is difficult
118 to achieve in most UK hospitals. The particular challenges faced by IPSs have been investigated in three case
119 studies and include: "doubts and disagreements about the nature of the changes required to improve
120 inpatient pain management; challenging local organisational contexts; and the beliefs, attitudes and
121 responses of health professionals and managers".⁹ In order to provide an adequate IPS these challenges
122 need to be addressed simultaneously at a local level. Embracing continuous quality improvement as a core
123 value of the IPS and utilising change management techniques may increase the likelihood of success in the
124 longer term.³

125 The relief of acute pain is primarily a humanitarian matter, but effective pain management may also result in
126 improved clinical outcomes and reduced complication rates, particularly in high-risk patients undergoing
127 major surgery.¹⁰

128 Providing safe and effective analgesia for an increasingly elderly surgical patient population with complex
129 medical problems is a significant challenge for IPSs.

130 Patients' expectations of surgical outcome and pain relief are high, and it is difficult to meet these
131 expectations with limited IPS resources.

132 Advances in minimally invasive surgery have resulted in a significant reduction in post-surgical pain in some
133 cases. However, these new surgical techniques present challenges of their own, particularly when combined
134 with enhanced recovery after surgery (ERAS) programmes in which the expectation is of early mobilisation and
135 accelerated discharge from hospital.^{11,12} Meeting the goals of ERAS has led to rapid and significant changes
136 in pain management techniques, which must be supported by a well-trained and informed IPS.^{13,14} However,
137 it is important that we recognise that ERAS protocols are not a replacement for IPSs.¹⁵ Patients with complex
138 medical problems, opioid tolerance or chronic pain account for 20-30% of all inpatients and cannot be
139 effectively managed using rigid post-surgical pain management protocols.¹⁶ There is evidence from a Danish
140 survey to suggest that a steady rise in the adoption of ERAS protocols from 40% of all hospitals in 2000 to 80% in
141 2009 was paralleled by the almost complete loss of IPSs outside teaching hospitals over the same period.¹⁷

142 The traditional role of the IPS was to manage acute pain after surgery. This remit is expanding in many
143 hospitals to include the care of medical inpatients and patients with complex pain problems such as acute-
144 on-chronic pain or opioid misuse.¹⁸

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

145 As part of a growing emphasis on perioperative medicine by anaesthetists in the UK, IPSs are increasingly
146 involved at all stages of the patient pathway, from the decision to operate to full recovery after discharge
147 from hospital. The potential for preoperative optimisation of pain management, both in terms of analgesic
148 drugs and pain coping strategies, is being evaluated as part of wider prehabilitation programmes.^{19,20}
149 Preassessment programmes now include preoperative prediction of those who are likely to suffer severe acute
150 pain and those at risk of developing persistent post surgical pain (PPSP).^{21,22} IPSs may be involved in
151 developing these programmes and devising enhanced analgesic strategies for high risk patients.^{23,24}

152 IPSs therefore have the potential to evolve into Transitional Pain Services (TPSs) involving acute pain physicians,
153 applied psychologists, physiotherapists and occupational therapists to identify risk factors for persistent pain,
154 implement preventative strategies and avoid potential opioid dependency.^{25,26} The use of opioid risk scores
155 such as the Opioid Risk Tool should be considered to assess risk of opioid abuse when continuing opioid
156 therapy beyond the immediate post operative period.

157 The development of risk stratification tools for PPSP and opioid dependence, together with improved
158 communication with surgical teams and primary care have the potential to reduce the risk of developing
159 inappropriate long term opioid use. This intervention should be led by IPSs and has the potential to prevent an
160 “opioid crisis” occurring in the UK. IPSs can help to develop and support analgesic techniques to minimise
161 opioid use without worsening post surgical pain and increasing the risk of developing PPSP.²⁷

162 The combination of IPSs with other teams, such as critical care outreach, is taking place in some hospitals, and
163 there is evidence that this approach may reduce adverse events and improve analgesia in complex patients,
164 but at the expense of an increased workload.^{12,28} However, there is also a risk of dilution of pain management
165 skills and the loss of highly trained clinical nurse specialists in pain management.

166 Recommendations

167 The grade of evidence and the overall strength of each recommendation are tabulated in Appendix 1.

168 1 Staffing requirements⁷

169 1.1 Inpatient pain services (IPS) should be staffed by multidisciplinary teams led by appropriately trained
170 consultant or SAS anaesthetists. The minimum training requirement for new appointments to IPS lead
171 roles is Royal College of Anaesthetists higher pain training.²⁹ Advanced pain training, or its equivalent,
172 should be considered optimal.

173 1.2 Anaesthetists in an IPS post need to demonstrate an ongoing significant interest in acute pain
174 management by involvement in CPD, appraisal and job planning.

175 1.3 Adequate time should be made available for IPS provision in job plans. Two clinical sessions for the lead
176 and one session for all other anaesthetists involved in the IPS is recommended per week.

177 1.4 Adequate staff and systems should be in place to provide timely pain management to all inpatients.
178 Out of usual working hours, this may be delivered by IPS nursing staff or appropriately trained
179 anaesthetic staff (intermediate pain training as a minimum standard). A clear point of contact for
180 expert advice should be available at all times.

181 1.5 Patients under the care of an IPS should be reviewed by the IPS regularly, with patients receiving
182 epidural analgesia or other continuous local anaesthetic infusions being seen at least once daily.

183 1.6 Adequate numbers of clinical nurse specialists in pain medicine should be available to fulfil the following
184 roles within working hours:

- 185 • review patients in pain with appropriate frequency to provide a safe and effective service
- 186 • provide advice to ward staff and other healthcare teams regarding all aspects of pain
187 management
- 188 • liaise with an appropriate pain medicine specialist to highlight clinical or systematic problems
- 189 • ensure systems are in place to support non specialist healthcare staff to safely and effectively
190 manage acute pain overnight and at weekends if the IPS is not immediately available.

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

191 1.7 The IPS should aim to provide multidisciplinary assessment and management of pain where needed.
192 This should involve collaborative working with allied health professionals including pharmacists,
193 physiotherapists, applied psychologists, liaison psychiatrists and addiction medicine specialists.

194 1.8 Outpatient (chronic) pain management teams should be available to provide advice to the IPS during
195 working hours. This activity should be supported through job planning. If possible, the inpatient and
196 outpatient (chronic) pain services should be integrated, with team members working in both
197 environments, to ensure coordinated care for patients with complex pain while in hospital and also for
198 those recently discharged to the community.

199 2 Equipment, Services and Facilities

200 Equipment

201 2.1 All equipment and disposables must be compliant with local and national safety policies. There should
202 be an adequate supply of the following:^{31,32,33,34}

- 203 • infusion pumps for neuraxial analgesia (epidural infusion / patient controlled epidural infusion
204 (PCEA) and potentially intrathecal infusions)
- 205 • infusion pumps for use with continuous regional analgesia catheters
- 206 • patient-controlled analgesia (PCA) infusion pumps
- 207 • infusion pumps for other analgesic drugs
- 208 • disposables for the above including neuraxial and regional block devices e.g. NRFit™.

209 2.2 Ultrasound scanning, nerve stimulators and all equipment and drugs necessary to perform local and
210 regional analgesic techniques should be available.³⁰

211 2.3 Pumps and infusion lines should be single purpose and appropriately coloured or labelled.^{31,32,33,34}

212 2.4 Drugs for epidural use or for continuous regional anaesthesia infusions should be prepared and stored in
213 compliance with local and national medicines management policies.^{31,32,33,34}

214 2.5 Controlled drugs must be stored and audited in line with current legislation.^{35,36,37}

215 2.6 Efforts should be made to minimise administration errors, and be compliant with local medicines
216 management policies. These should incorporate relevant national policy and frameworks, including the
217 avoidance of 'Never Events'.^{38,39,40,41}

218 2.7 Clinical areas caring for patients receiving analgesic techniques which may result in cardiovascular,
219 respiratory or neurological impairment should have appropriate facilities and adequately trained staff
220 to provide appropriate monitoring.⁴²

221 2.8 Drugs and equipment for the management of the complications associated with analgesic techniques
222 should be readily available.⁴²

223 Facilities

224 2.9 There should be adequate office space, informatics and administrative support for the IPS.

225 2.10 There should be appropriate storage facilities for analgesic devices and drugs.
226

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

227 3 Areas of Special Requirement

228 Children

229 3.1 The standard of care for neonates, infants, children and young people should be the same as for adults
230 with specific arrangements made for the management of pain in neonates, infants, children and young
231 people.⁴³

232 3.2 The service should be delivered by an appropriately trained team, with specific skills in paediatric pain
233 management and paediatric anaesthesia. Paediatric pain management services may be provided by
234 paediatricians or anaesthetists.

235 3.3 All tertiary paediatric centres should have access to paediatric chronic pain service to help in
236 managing complex cases. Other centres should develop a network to provide access to paediatric
237 chronic pain services for advice and guidance.

238 Other patient groups

239 3.4 Specific arrangements and guidelines should be available for the management of sub-groups of
240 vulnerable adult patients including:

- 241 • critically ill patients
- 242 • elderly and/or frail patients^{44,45}
- 243 • non-native English speakers
- 244 • patients with chronic pain
- 245 • patients with coexisting mental health problems
- 246 • patients with dementia
- 247 • patients with multi trauma or significant blunt chest wall trauma
- 248 • patients with opioid tolerance⁴⁶
- 249 • patients with physical or learning disability
- 250 • patients with problem drug and alcohol use⁴⁷
- 251 • patients with significant organ dysfunction
- 252 • pregnant and breastfeeding patients

253 4 Training and Education

254 The inpatient pain service should actively contribute to a hospital environment in which education, training
255 and staffing levels ensure safe care of patients being treated for pain.

256 4.1 The inpatient pain service should provide education delivered by appropriately trained individuals.⁴⁸
257 Training should include the recognition, assessment and treatment of pain, this includes using a
258 management plan.

259 4.2 Training should be provided at induction and regularly thereafter for anaesthetists, ward staff, doctors in
260 training and allied health professionals.

261 4.3 All staff should know how to obtain expert advice when needed. This includes being able to access
262 guidelines and protocols.

263 4.4 Members of the IPS should have access to internal and external CPD appropriate to their roles. Funding
264 and time should be available for staff to attend this training.⁴⁹

265 4.5 Training for anaesthetists to attain basic, intermediate and higher level competencies in pain medicine,
266 as specified by the Faculty of Pain Medicine of the Royal College of Anaesthetists, should be provided.

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

267 Where higher or advanced pain training is not feasible within an individual hospital, it should be
268 available within the region.⁵⁰

269 4.6 Inpatient pain nurse specialists providing education on the wards should have dedicated time for this
270 role distinct from direct clinical duties.

271 4.7 Training should include consideration of the use of simulation where feasible. For example role play with
272 the pain team simulating a patient with a failed epidural.

273 4.8 Members of the IPS should engage in outpatient (chronic) pain CPD.

274 5 Organisation and Administration

275 5.1 Clear lines of communication and close working with other services such as surgical and medical
276 colleagues, outpatient (chronic) pain, palliative care, emergency medicine and primary care should be
277 in place.

278 5.2 Advice for the management of step down analgesia should be provided for primary care doctors, where
279 needed.

280 5.3 The inpatient pain service should engage with critical incident reporting, root cause analysis and
281 mortality and morbidity meetings as part of the local hospital reporting structure.⁵¹

282 5.4 There should be processes in place for learning from critical incidents and from excellent care.

283 5.5 There should be mechanisms to disseminate national safety alerts from groups such as the Safe
284 Anaesthesia Liaison Group of the RCoA (SALG).⁵²

285 Guidelines

286 5.6 Analgesic guidelines, including those for specific analgesic techniques, should be widely disseminated
287 and easily accessible.

288 5.7 All guidelines should be dated and regularly reviewed. All guidelines should have a clearly documented
289 author and review date and be published in line with local clinical governance policies with appropriate
290 oversight.

291 5.8 Guidelines for the management of specific patients groups (as listed in 3.4) should be available.

292 5.9 Guidelines for side-effect and complication management including inadequate analgesia should be
293 available.

294 5.10 Where good evidence exists, consideration should be given to procedure-specific analgesic techniques.

295 5.11 Where possible, guidelines should be shared locally, between hospitals and nationally.

296 Assessment and record keeping

297 5.12 Pain and its management should be regularly recorded in the patient notes and / or observation chart
298 using validated tools for each clinical setting. Consistent tools should be used throughout the patient
299 pathway.

300 6 Financial Considerations

301 Part of the methodology used in this chapter in making recommendations is a consideration of the financial
302 impact for each of the recommendations. Very few of the literature sources from which these
303 recommendations have been drawn have included financial analysis.

304 The vast majority of the recommendations are not new recommendations, but they are a synthesis of already-
305 existing recommendations. The current compliance rates with many of the recommendations are unknown,
306 and so it is not possible to calculate the financial impact of the recommendations in this chapter being widely
307 accepted into future practice. It is impossible to make an overall assessment of the financial impact of these
308 recommendations with the currently available information.

309

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

310 **7 Research, audit and quality improvement**

311 7.1 Inpatient pain services should keep a prospective database of activity and outcome data. This should
312 be used for quality improvement and early recognition of potential harm.⁵³

313 7.2 The IPS should actively engage in benchmarking against national standards e.g. GPAS, CSPMSUK,
314 ACSA, Audit recipe book.^{54,55,56,57}

315 7.3 Where possible, the IPS should encourage engagement in research in acute pain medicine, including
316 recruitment into well designed national and international multicentre studies.

317 **8 Implementation Support**

318 The Anaesthesia Clinical Services Accreditation (ACSA) scheme, run by the RCoA, aims to provide support for
319 departments of anaesthesia to implement the recommendations contained in the GPAS chapters. The
320 scheme provides a set of standards, and asks departments of anaesthesia to benchmark themselves against
321 these using a self-assessment form available on the RCoA [website](#). Every standard in ACSA is based on
322 recommendation(s) contained in GPAS. The ACSA standards are reviewed annually and republished
323 approximately four months following GPAS review and republication, to ensure that they reflect current GPAS
324 recommendations. ACSA standards include links to the relevant GPAS recommendations, for departments to
325 refer to while working through their gap analyses.

326 Departments of anaesthesia are given the opportunity to engage with the ACSA process for an appropriate
327 fee. Once engaged, departments are provided with a 'college guide' (a member of the RCoA working group
328 that oversees the process), or an experienced reviewer to assist them with identifying actions required to meet
329 the standards outlined in the document. Departments must demonstrate adherence to all 'priority one'
330 standards listed in the document to receive accreditation from the RCoA. This is confirmed during a visit to the
331 department by a group of four ACSA reviewers (two clinical reviewers, a lay reviewer and an administrator),
332 who submit a report back to the ACSA committee.

333 The ACSA committee has committed to building a 'good practice library' (GPL), which will be used to collect
334 and share documentation such as policies and checklists, as well as case studies of how departments that
335 have overcome barriers to implementation of the standards, or have implemented the standards in innovative
336 ways.

337 One of the outcomes of the ACSA process is to test the standards, and by extension the GPAS
338 recommendations, to ensure that they are able to be implemented by departments of anaesthesia and
339 consider any difficulties that may result from implementation. The ACSA committee has committed to
340 measuring and reporting feedback of this type from departments engaging in the scheme back to the CDGs
341 updating the guidance via the GPAS technical team.

342 **9 Patient Information**

343 9.1 Patient information leaflets should be made available to provide information on analgesia in general and
344 specialised analgesic techniques such as epidural analgesia, nerve blocks, specialist drug infusions and
345 patient-controlled analgesia.⁵⁸

346 9.2 Patient information should be available in formats that take into account the information needs of
347 patients listed in 3.4.

348 9.3 Leaflets should explain pain management after discharge, including a step-down analgesic plans and
349 how further supplies of medicine can be obtained. Patient information should emphasise the need to
350 avoid harm from long term strong opioid use and give clear advice on the impact of analgesics on
351 driving, acknowledging the current DVLA guidance.^{59,60}

352 9.4 Patients should provide informed consent for invasive analgesic procedures, and this must be
353 documented following the GMC advice on informed consent.^{61,62}

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

354 9.5 Patient education regarding expectation of pain and analgesia after surgery should be given to all
355 patients in the preoperative period.

356 Areas for Future Development

357 Following the systematic review of the evidence, the following areas of research are suggested:

- 358 • Transitional pain management ⁶³
- 359 • Psychological interventions ^{64,65}
- 360 • Establish a national database (organisational & patient level data)
- 361 • Opioid minimisation and long term abuse
- 362 • Persistent post surgical pain
- 363 • Pre-emptive and preventive analgesic strategies
- 364 • Safe analgesia for older people and those with cognitive dysfunction

365 Abbreviations

| | |
|---------|---|
| ACSA | Anaesthesia Clinical Services Accreditation |
| CDG | Chapter Development Group |
| CPD | Continuing Professional Development |
| CSPMSUK | Core Standards for Pain Management Services in the UK |
| DVLA | Driver and Vehicle Licensing Agency |
| ERAS | Enhanced recovery after surgery |
| FPM | Faculty of Pain Management |
| GMC | General Medical Council |
| GPAS | Guidelines for the Provision of Anaesthetic Services |
| IPS | Inpatient pain service |
| NICE | National Institute for Health and Care Excellence |
| PCA | Patient-controlled analgesia |
| PCEA | Patient controlled epidural infusion |
| PPSP | Persistent post surgical pain |
| RCoA | Royal College of Anaesthetists |
| SALG | Safe Anaesthesia Liason Group |

366 References

- 1 Royal College of Surgeons of England and Royal College of Anaesthetists, Working party of the commission on the provision of surgical services. Pain after surgery. 2009.
- 2 Harmer M, Davies KA, Lunn JN. A survey of acute pain services in the United Kingdom. *BMJ* 1995; 311: 360
- 3 Powell AE, Davies HT, Bannister J, Macrae WA. Rhetoric and reality on acute pain services in the UK: a national postal questionnaire survey. *Br J Anaesth* 2004; 92: 689-93
- 4 Erlenwein J, Koschwitz R, Pauli-Magnus D *et al.* A follow-up on Acute Pain Services in Germany compared to international survey data. *Eur J Pain* 2016; 20: 874-83
- 5 Duncan F, Day R, Haigh C *et al.* First steps toward understanding the variability in acute pain service provision and the quality of pain relief in everyday practice across the United Kingdom. *Pain Med* 2014; 15: 142-53
- 6 Donaldson L. 150 Years of the Annual Report of the Chief Medical Officer: On the State of Public Health 2008. Department of Health, London, 2009
- 7 Core Standards for Pain Management Services in the UK. Faculty of Pain Medicine, London, 2015 (bit.ly/1k6uvly)
- 8 Rockett M, Vanstone R, Chand J, Waeland D. A survey of acute pain services in the UK. *Anaesthesia* 2017; 72: 1237-42

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

- 9 Powell AE, Davies HT, Bannister J, Macrae WA. Understanding the challenges of service change - learning from acute pain services in the UK. *J R Soc Med* 2009; 102: 62-8
- 10 Kooij FO, Schlack WS, Preckel B, Hollmann MW. Does regional analgesia for major surgery improve outcome? Focus on epidural analgesia. *Anesth Analg*, 2014; 119: 740-4
- 11 Nimmo SM, Foo ITH, Paterson HM. Enhanced recovery after surgery: Pain management. *J Surg Oncol* 2017; 116: 583-91
- 12 Werner MU, Nielson PR. The acute pain service: Present and future role. *Current Anaesthesia & Critical Care* 2007; 18: 135-9
- 13 Tilleul P, Aissou M, Bocquet F et al. Cost-effectiveness analysis comparing epidural, patient-controlled intravenous morphine, and continuous wound infiltration for postoperative pain management after open abdominal surgery, in *Br J Anaesth* 2012; 108: 998-1005
- 14 Paiste J, Simmons JW, Vetter TR. Enhanced Recovery After Surgery in the Setting of the Perioperative Surgical Home. *Int Anesthesiol Clin* 2017; 55: 135-47
- 15 Romundstad L, Breivik H. Accelerated recovery programmes should complement, not replace, the acute pain services. *Acta Anaesthesiol Scand* 2012; 56: 672-4
- 16 Rockett MP, Simpson G, Crossley R, Blowey S. Characteristics of pain in hospitalized medical patients, surgical patients, and outpatients attending a pain management centre. *Br J Anaesth* 2013; 110: 1017-23
- 17 Nielsen PR, Christensen PA, Meyhoff CS, Werner MU. Post-operative pain treatment in Denmark from 2000 to 2009: a nationwide sequential survey on organizational aspects. *Acta Anaesthesiol Scand*, 2012; 56: 686-94
- 18 Chang SH, Maney KM, Mehta V, Langford RM. Pain assessment and management in medical wards: an area of unmet need. *Postgrad Med J*, 2010; 86: 279-84
- 19 Carli F, Scheede-Bergdahl C. Prehabilitation to enhance perioperative care. *Anesthesiol Clin* 2015; 33: 17-33
- 20 Kaye AD, Helander EM, Vadivelu N et al. Consensus Statement for Clinical Pathway Development for Perioperative Pain Management and Care Transitions. *Pain Ther* 2017; 6: 129-41
- 21 Boezaart AP, Munro AP, Tighe PJ. Acute pain medicine in anesthesiology. *F1000Prime Rep* 2013; 5: 54
- 22 Clarke H, Poon M, Weinrib A, Katznelson R, Wentlandt K, Katz J. Preventive analgesia and novel strategies for the prevention of chronic post-surgical pain. *Drugs* 2015; 75: 339-51
- 23 Janssen KJ, Kalkman CJ, Grobbee DE, Bonsel GJ, Moons KG, Vergouwe Y. The risk of severe postoperative pain: modification and validation of a clinical prediction rule. *Anesth Analg*, 2008; 107: 1330-9
- 24 Wylde V, Hewlett S, Learmonth ID, Dieppe P. Persistent pain after joint replacement: prevalence, sensory qualities, and postoperative determinants. *Pain*, 2011; 152: 566-72
- 25 Huang A., Azam A, Segal S et al. Chronic postsurgical pain and persistent opioid use following surgery: the need for a transitional pain service. *Pain manag* 2016; 6: 435-43
- 26 Vetter TR, Kain ZN. Role of the Perioperative Surgical Home in Optimizing the Perioperative Use of Opioids. *Anesth Analg* 2017; 125: 1653-7
- 27 Hah JM, Bateman BT, Ratliff J, Curtin C, Sun E. Chronic Opioid Use After Surgery: Implications for Perioperative Management in the Face of the Opioid Epidemic. *Anesth Analg* 2017; 125: 1733-40
- 28 Story DA, Shelton AC, Poustie SJ, Colin-Thome NJ, McIntyre RE, McNicol PL. Effect of an anaesthesia department led critical care outreach and acute pain service on postoperative serious adverse events. *Anaesthesia*, 2006; 61: 24-8
- 29 The CCT in Anaesthetics - Higher Level Training (Annex D). RCoA, London, 2010 (www.rcoa.ac.uk/CCT/AnnexD)
- 30 Ultrasound-guided regional nerve block. NICE, 2009(www.nice.org.uk/guidance/ipg285)
- 31 Best practice in the management of epidural analgesia in the hospital setting. AAGBI, Lonon, 2010 (bit.ly/2MjU8yQ)

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

- 32 Design for patient safety: A guide to the design of electronic infusion devices. National Patient Safety Agency, 2013
- 33 Safer spinal (intrathecal), epidural and regional devices – Part B. National Patient Safety Agency, 2009
- 34 Minimising Risks of Mismatching Spinal, Epidural and Regional Devices with Incompatible Connectors. National Patient Safety Agency, 2011
- 35 Misuse of Drugs Act 1971. HMSO, 1971 (bit.ly/1SemPeM)
- 36 The Misuse of Drugs Regulations 2001 (SI 2001 No.3998). HMSO, 2001 (bit.ly/1VkePZ3)
- 37 The Controlled Drugs (Supervision of Management and Use) Regulations 2013 (bit.ly/2QMde2T)
- 38 Never Events list 2018. NHS Improvement, 2018 (bit.ly/2yfgRcG)
- 39 French J, Bedforth N, Townsley P. Stop Before you Block Campaign. RCoA, (bit.ly/1IJYalm)
- 40 National Safety Standards for Invasive Procedures (NatSSIPs). NHSE, 2015 (bit.ly/1K6fRY2)
- 41 Scottish Patient Safety Programme (bit.ly/2IkzPTb)
- 42 Association of Anaesthetists of Great Britain and Ireland. Recommendations for standards of monitoring during anaesthesia and recovery 2015. *Anaesthesia* 2016; 71: 85-93
- 43 Good Practice in Postoperative and Procedural Pain Management, 2nd Edition. APA, 2012 (bit.ly/2OzuOWC)
- 44 Helfand M, Freeman M. Assessment and management of acute pain in adult medical inpatients: a systematic review. *Pain Med* 2009; 10: 1183-99
- 45 Schofield, P.A. The assessment and management of peri-operative pain in older adults. *Anaesthesia* 2014; 69(S1): 54-60
- 46 Huxtable CA, Roberts LJ, Somogyi AA, MacIntyre PE. Acute pain management in opioid-tolerant patients: a growing challenge. *Anaesth Intensive Care* 2011; 39: 804-23
- 47 Krashin D, Murinova N, Ballantyne J. Management of pain with comorbid substance abuse. *Curr Psychiatry Rep* 2012; 14: 462-68
- 48 American Society of Anesthesiologists Task Force on Acute Pain Management. Practice guidelines for acute pain management in the perioperative setting: an updated report by the American Society of Anesthesiologists Task Force on Acute Pain Management. *Anesthesiology* 2012; 116: 248-73
- 49 Guidance for doctors: requirements for revalidation and maintaining your licence. GMC, 2018 (bit.ly/2qx7cao)
- 50 Faculty of Pain Medicine: Training and Assessment Curriculum (bit.ly/2OyZeYT).
- 51 Serious Incident Framework: Supporting learning to prevent recurrence. NHS England, 2015 (bit.ly/1PSyUoa)
- 52 Patient Safety Updates, RCoA www.rcoa.ac.uk/salg/patient-safety-updates
- 53 Bibby, P. Auditing your acute pain service - a UK NHS model. *Acute pain* 2004; 5: 109-12
- 54 Guidelines for the Provision of Anaesthesia Services. RCoA, 2018 www.rcoa.ac.uk/gpas
- 55 Gap Analysis Questionnaire tool. Faculty of Pain Medicine, 2017 (bit.ly/2MnYx3M)
- 56 Anaesthesia Clinical Services Accreditation. RCoA www.rcoa.ac.uk/acsa
- 57 Colvin JP, Peden C. Raising the standard: a compendium of audit recipes for continuous quality improvement in anaesthesia. 3rd ed. 2012; Available from: www.rcoa.ac.uk/system/files/CSQ-ARB-2012_1.pdf
- 58 Kumar G, Howard SK, Kou A, Kim TE, Butwick AJ, Mariano ER. Availability and Readability of Online Patient Education Materials Regarding Regional Anesthesia Techniques for Perioperative Pain Management. *Pain Med* 2017; 18: 2027-32
- 59 Assessing fitness to drive – a guide for medical professionals. DVLA, 2018 (bit.ly/2HvM9Af)
- 60 Driving and Pain: Information for Patients. FPM, 2018 (bit.ly/2MApUeU)
- 61 GMC. Consent: patients and doctors making decisions together. General Medical Council, London, 2008; Available from: http://www.gmc-uk.org/GMC_Consent_0513_Revised.pdf 52115235.pdf

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

- 62 Guidelines for the Provision of Anaesthesia Services for Preoperative Assessment and Preparation. RCoA, 2018 (www.rcoa.ac.uk/gpas2018)
- 63 Katz J, Weinrib A, Fashler SR *et al*. The Toronto General Hospital Transitional Pain Service: development and implementation of a multidisciplinary program to prevent chronic postsurgical pain. *Journal of pain research* 2015; 8: 695-702
- 64 Childs SR, Casely EM, Kuehler BM *et al*. The clinical psychologist and the management of inpatient pain: a small case series. *Neuropsychiatr Dis Treat* 2014; 10: 2291-7
- 65 Weinrib AZ, Azam MA, Birnie KA, Burns LC, Clarke H, Katz J. The psychology of chronic post-surgical pain: new frontiers in risk factor identification, prevention and management. *Br J Pain* 2017; 11: 169-77

DRAFT

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

Appendix 1: Recommendations Grading

The grading system is outlined in the methodology section of this chapter. The grades for each of the recommendations in this chapter are detailed in the table below:

| Recommendation Number | Level of Evidence | Strength of Recommendation |
|-----------------------|-------------------|----------------------------|
| 1.1 | C | Strong |
| 1.2 | C | Strong |
| 1.3 | C | Strong |
| 1.4 | C | Strong |
| 1.5 | C | Strong |
| 1.6 | C | Strong |
| 1.7 | C | Weak |
| 1.8 | C | Weak |
| 2.1 | C | Strong |
| 2.2 | C | Strong |
| 2.3 | C | Strong |
| 2.4 | C | Strong |
| 2.5 | M | Mandatory |
| 2.6 | C | Strong |
| 2.7 | C | Strong |
| 2.8 | GPP | Strong |
| 2.9 | GPP | Strong |
| 2.10 | GPP | Strong |
| 3.1 | C | Strong |
| 3.2 | C | Strong |
| 3.3 | GPP | Strong |
| 3.4 | B | Strong |
| 4.1 | C | Strong |
| 4.2 | GPP | Strong |
| 4.3 | GPP | Strong |
| 4.4 | C | Strong |
| 4.5 | C | Strong |
| 4.6 | GPP | Strong |
| 4.7 | GPP | Aspirational |
| 4.8 | GPP | Strong |
| 5.1 | GPP | Strong |
| 5.2 | GPP | Weak |
| 5.3 | C | Strong |
| 5.4 | GPP | Strong |
| 5.5 | C | Strong |
| 5.6 | GPP | Strong |
| 5.7 | GPP | Strong |

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

| Recommendation Number | Level of Evidence | Strength of Recommendation |
|-----------------------|-------------------|----------------------------|
| 5.8 | GPP | Strong |
| 5.9 | GPP | Strong |
| 5.10 | GPP | Aspirational |
| 5.11 | GPP | Aspirational |
| 5.12 | GPP | Strong |
| 7.1 | C | Strong |
| 7.2 | C | Strong |
| 7.3 | GPP | Weak |
| 9.1 | B | Strong |
| 9.2 | GPP | Strong |
| 9.3 | C | Strong |
| 9.4 | C | Strong |
| 9.5 | GPP | Strong |

About these guidelines

Methodology

The process by which this chapter has been developed has been documented within the [GPAS chapter development process document](#).

The evidence included in this chapter is based on a systematic search of the literature. Abstracts were independently screened by two investigators and reviewed against inclusion and exclusion criteria. Data were extracted by one investigator in accordance with predefined criteria. The review objective was to determine the key components needed to ensure provision of high-quality inpatient pain services for patients who have undergone surgery and/or interventions which involve anaesthesia.

Search strategy

Searches were performed on Embase (1980 to 2015), Ovid MEDLINE (1946 to present), CINAHL and Cochrane Library, for the literature search strategy, outcomes, databases, criteria for inclusion and exclusion of evidence (for the full inpatient pain chapter search protocol please contact the RCoA). A hand search of the literature was also conducted by the authors using the reference lists of relevant original articles and review articles.

The literature search was performed in November 2017.

The authors and researcher independently reviewed the abstracts and titles of the studies found in the initial search. After agreement on the primary selection of papers, full-text versions were accessed and reviewed against the following predefined inclusion and exclusion criteria. The full-text papers were also reviewed by the Chapter Development Group (CDG) for suitability. The final list of publications used can be found in the references.

Inclusion criteria

The literature review considered studies that included the following patient population with all of the inclusion criteria listed below:

- All patients undergoing elective or emergency anaesthesia
- All staff groups working within acute pain, under the responsibility of an Anaesthetic Clinical Director, including (but not restricted to) Consultant Anaesthetists, Trainee Anaesthetists, Nurses, Operating Department Practitioners, Surgeons, Pharmacists, General Practitioners, Radiologists and Radiographers

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

Exclusion criteria

The literature review used the following exclusion criteria:

- Provision of an acute pain service provided by a speciality other than anaesthesia

Data Extraction and Analysis

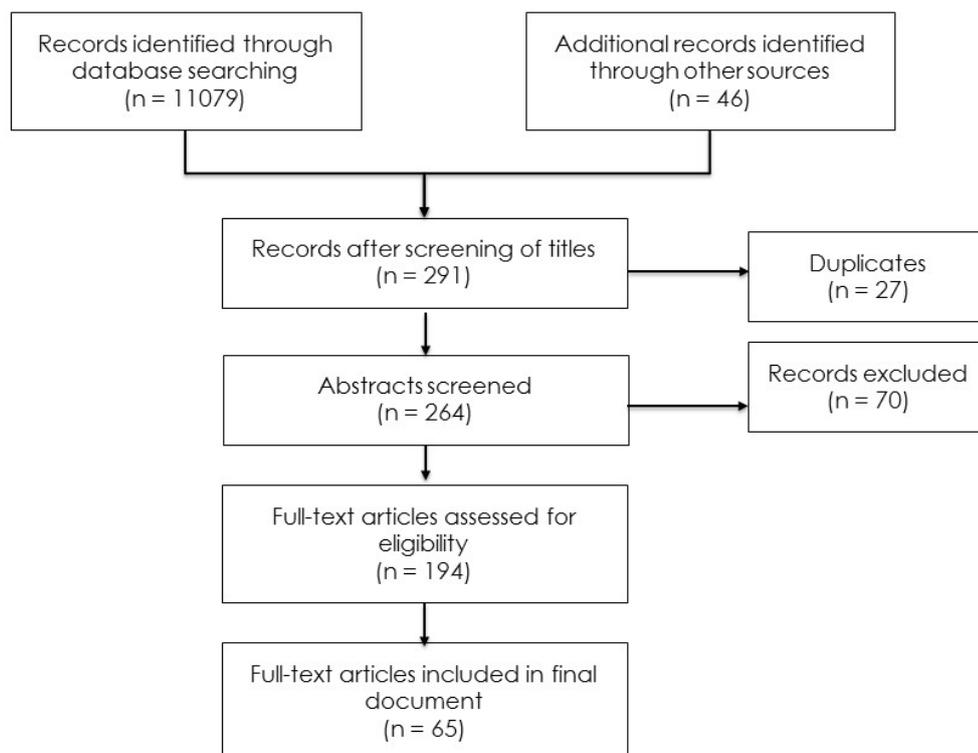
Data were extracted by the authors using a proforma. The study characteristics data included:

- the journal and country of publication
- the number of patients recruited into the study
- the study design
- patient characteristics
- outcome data
- the logic of the argument
- author's conclusions
- reviewer's comments.

The patient characteristics data extracted were; age, gender and type of surgery. The analysis considers studies that included any clinical outcome, including (but not restricted to) survival, length of stay, critical care or hospital, morbidity, adverse effects and complications.

The results of the literature review can be seen below:

Preferred Reporting Systems for Systematic Review and Meta-analysis (PRISMA) flow chart



Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

The evidence that is included in this chapter has been graded according to a grading system adapted from NICE and outlined below:

| Level | Type of evidence | Grade | Evidence |
|------------|---|------------|--|
| Ia | Evidence obtained from a single large/multicentre randomised controlled trial, a meta-analysis of randomised controlled trials or a systematic review with a low risk of bias | A | At least one randomised controlled trial as part of a body of literature of overall good quality and consistency addressing the specific recommendation (evidence level I) without extrapolation |
| Ib | Evidence obtained from meta-analyses, systematic reviews of RCTs or RCTs with a high risk of bias | B | Well-conducted clinical studies but no high-quality randomised clinical trials on the topic of recommendation (evidence levels Ib, II or III); or extrapolated from level Ia evidence |
| Ila | Evidence obtained from at least one well-designed controlled study without randomisation | | |
| Ilb | Evidence obtained from at least one well-designed quasi-experimental study | | |
| Ilc | Evidence obtained from case control or cohort studies with a high risk of confounding bias | | |
| III | Evidence obtained from well-designed non-experimental descriptive studies, such as comparative studies, correlation studies and case studies | C | Expert committee reports or opinions and/or clinical experiences of respected authorities (evidence level IV) or extrapolated from level I or II evidence. This grading indicates that directly applicable clinical studies of good quality are absent or not readily available. |
| IV | Evidence obtained from expert committee reports or opinions and/or clinical experiences of respected authorities | | |
| UG | Legislative or statutory requirements | M | This grading indicates that implementation of this recommendation is a statutory requirement, or is required by a regulatory body (e.g. CQC, GMC) |
| | | GPP | Recommended good practice based on the clinical experience of the CDG. |

Adapted from Eccles M, Mason J. How to develop cost-conscious guidelines. *Health Technology Assessment* 2001;5(16) and Mann T. Clinical guidelines: using clinical guidelines to improve patient care within the NHS. *Department of Health, London* 1996.

Strengths and limitations of body of evidence

Most of the published evidence on inpatient pain services is descriptive. There are publications describing aspects of this process based on expert opinion.

The limitations of the evidence are:

- the 'unmeasurables' (attitudes, behaviour, motivation, leadership, teamwork)

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

- few randomised controlled trials (RCTS); studies frequently use mixed populations of emergency and elective patients, or all emergency patients grouped together despite different underlying diagnoses
- papers often examine a single intervention within complex system or bundle
- papers are often examining small numbers and/or patients from a single centre
- poor use of outcome measures, frequently concentrating on easily measured short term outcomes which are not patient-centred
- generally, a paucity of long-term follow up
- there is no standard definition used of 'high risk'
- use of different risk-scoring systems
- decrease in outcome over time and geography when 'good papers' are used in quality Improvement programmes
- application of international studies in systems with either more or less resources than the UK into NHS practice
- older studies may no longer be applicable within the NHS
- very few studies included any analysis of financial implications
- evidence was mainly based on literature graded III and IV.

Methods used to arrive at recommendations

Recommendations were initially drafted based on the evidence by the authors for the chapter. These were discussed with the CDG, and comments were received both on the content and the practicality of the recommendations. The level of evidence that was the basis for each recommendation was graded according to a grading system, and the recommendation was then graded taking into account the strength of the evidence and the clinical importance using a recommendations criteria form (see [GPAS Chapter Development Process Document](#)). Recommendations were worded using the following system of categorisation:

| Strength | Type of evidence | Wording |
|---------------------|--|---|
| Mandatory | The evidence supporting the recommendation includes at least one with an 'M' grading | Wording should reflect the mandatory nature of the recommendation, ie 'must' |
| Strong | Confidence that for the vast majority of people, the action will do more good than harm (or more harm than good) | Wording should be clearly directive 'should' or 'should not' |
| Weak | The action will do more good than harm for most patients, but may include caveats on the quality or size of evidence base or patient preferences | Wording should include 'should be considered' |
| Aspirational | While there is some evidence that implementation of the recommendation could improve patient care, either the evidence or the improvement is not proven or substantial | Wording should include 'could' |
| Equipoise | There is no current evidence on this recommendation's effect on patient care | Wording should include 'there is no evidence of this recommendation's effect on patient care' |

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

Consultation

The chapter has undergone several rounds of consultation. The multidisciplinary CDG formed the first part of the consultation process. The authors and GPAS Editorial Board identified key stakeholder groups. Where stakeholders are represented by an association or other medical college, they were asked to nominate delegates to join the CDG. The [GPAS Chapter Development Process Document](#) explains the recruitment process for those CDG members who were not directly nominated. The CDG members were involved in drafting the recommendations, and were provided with an opportunity to comment on all subsequent drafts of the chapter.

The chapter underwent peer review. Peer reviewers were identified by the authors or GPAS Editorial Board. Nominees were either anaesthetists of consultant grade or were nominated by a key stakeholder group. Nominees had not had any involvement in the development of GPAS to date and were asked to comment upon a late draft of the chapter.

Following peer review, the chapter was reviewed by the College's Clinical Quality and Research Board (CQRB) along with the College's Lay Committee. Comments from all groups were considered and incorporated into a consultation draft.

The consultation draft of this chapter was circulated for public consultation from 3 December 2018 – 4 January 2019. As well as being made available on the College's website and promoted via Twitter and the President's newsletter to members, the draft was also circulated to all key stakeholder groups identified by the authors and the College. A list of organisations contacted by the College is available from the GPAS team at the College: GPAS@rcoa.ac.uk.

The editorial independence of GPAS

The development of GPAS is solely funded by the Royal College of Anaesthetists. However, only the GPAS technical team and the GPAS researcher are paid directly by the College for their work on GPAS, the GPAS Editors' employing organisation receives 2 PA backfill funding. All funding decisions by the College are made by the CEO, in collaboration with the senior management team and College Council.

The authors of the chapters are all fellows of the Royal College of Anaesthetists. Members of College Council cannot act as chair of any CDG, as this individual has the deciding vote under the consensus method of decision making used in the chapters. Where College Council members have been involved in chapter development, this has been declared and recorded.

All persons involved in the development of GPAS are required to declare any pecuniary or non-pecuniary conflict of interest, in line with the GPAS conflict of interest policy as described in the [GPAS Chapter Development Process Document](#). Any conflicts of interest are managed on a case-by-case basis to maintain the transparency and impartiality of the GPAS document. The conflicts, and the way they were managed, are outlined at the beginning of the chapter.

The role of the GPAS Editorial Board and CQRB

The overall development of the entire GPAS document is overseen by the CQRB of the Royal College of Anaesthetists, which includes representatives from all grades of anaesthetist, clinical directors and lay representation.

Responsibility for managing the scope of the document and providing clinical oversight to the project technical team is delegated by the CQRB to the GPAS Editorial Board, which includes individuals responsible for the various internal stakeholders (see above for membership). On the inclusion/exclusion of specific recommendations within each chapter, the Editorial Board can only provide advice to the authors. In the event of disagreement between the authors, the majority rules consensus method is used, with the GPAS Editor holding the deciding vote.

Both of these groups, along with the College's Lay Committee review each chapter and provide comment prior to public consultation and are responsible for signoff before final publication. In the event of disagreement, consensus is reached using the majority rules consensus method, with the chair of CQRB holding the deciding vote.

Chapter 11

Guidelines for the Provision of Anaesthesia Services for Inpatient Pain Management

Updating these guidelines

This chapter will be updated for republication in January 2020.

Guidelines will be updated on an annual basis. The researcher will conduct the literature search again using the same search strategy to uncover any new evidence and members of the public will be able to submit new evidence to the GPAS project team. Where new evidence is uncovered, the lead author will decide whether the recommendations that were originally made are still valid in light of this new evidence.

If new evidence contradicts or strengthens existing recommendations, the authors decide whether or not to involve the remainder of the CDG in revising the recommendations accordingly.

If new evidence agrees with existing recommendations, then a reference may be added but no further action is required.

If there is no new evidence then no action is required.

This chapter is due to be fully reviewed for publication in January 2024.

Every five years guidance will be submitted to a full review involving reconvening the CDG (or appointment of a new, appropriately qualified CDG), and the process described in the methodology section of this chapter begins again.



Royal College of Anaesthetists

Royal College of Anaesthetists, Churchill House, 35 Red Lion Square, London WC1R 4SG
020 7092 1500 | www.rcoa.ac.uk/gpas | gpas@rcoa.ac.uk

© Royal College of Anaesthetists (RCOA)