

Certification Guidelines for Paediatric Surgery

All trainees seeking certification in Paediatric Surgery must:

- a) be fully registered with the GMC and have a licence to practise.
- b) have completed a recognised higher surgical training programme in the UK or Republic of Ireland¹.
- c) have successfully passed the Intercollegiate Specialty Board examination.
- d) have been awarded an outcome 6 at a final ARCP (gained all required competencies).

In order to be awarded an outcome 6 at final ARCP, the SAC would expect that trainees should be able to satisfy the following specialty specific guidelines:

Guidelines for Paediatric Surgery	
Clinical experience - evidence of the breadth of clinical experience defined in the specialty syllabus	Trainees must have experienced six years of progressive training rotating through posts in a minimum of two centres, whose HST posts are compliant with the JCST/SAC QIs. The trainees must be exposed to the six major areas of clinical work in the specialty: neonatal surgery; general surgery of childhood, GI surgery; urological surgery; oncological surgery; and thoracic surgery.
Operative experience - consolidated logbook evidence of the breadth of operative experience defined in the specialty syllabus	Trainees must satisfy the indicative operation totals specified by the SAC in all groupings in Appendix 1.
Operative competence - evidence of competence in indicative operative procedures to level 3 or 4 (evidenced by PBAs defined by the specialty)	Trainees must have submitted the necessary procedure based assessments in the last three years of training as defined by the list specified by the SAC in Appendix 2.
Research - evidence of an understanding of, and participation in, research as defined by the specialty	<p>Trainees should undertake research during training and provide evidence recorded on the ISCP of a minimum of:</p> <ul style="list-style-type: none"> • Four publications of which two should be first author publications and not case reports. Other academic activities will be considered. • Four abstracts/presentations of which two must be presented, but not necessarily at national or international Paediatric Surgery meetings. • Completion of a Good Clinical Practice (GCP) course in Research Governance. • Completion of a research methodologies course.

¹ This will include out of programme training

Quality Improvement - evidence of an understanding of, and participation in, audit or service improvement as defined by the specialty	Trainees must provide evidence of participation in audit or quality improvement project(s) and clinical governance. Audit is to have been regularly undertaken, with a minimum of one audit/quality improvement project per year of training, of which two must be as lead person/major contributor, and one of these to have progressed through the full audit cycle and/or an audit of the effect and outcomes of a quality improvement project.
Medical Education and training - evidence of an understanding of, and participation in, medical education and training as defined by the specialty	Trainees should have attended a 'Training the Trainers' course during training.
Management and leadership - evidence of an understanding of management structures and challenges of the NHS in the training jurisdiction	Trainees should have completed a course on health service management during training.
Additional courses / qualifications - evidence of having attended specific courses/gained specific qualifications as defined by the specialty	Trainees must have a valid APLS provider or instructor credential at the time of certification.
Educational conferences - evidence of having attended appropriate educational conferences and meetings as defined by the specialty	Trainees should provide evidence of attendance at, and participation in, relevant national and international scientific meetings e.g. British Association of Paediatric Surgeons, British Association of Paediatric Urologists, British Association of Paediatric Endoscopic Surgeons, EUPSA, IPEG, SIOP, APSA, CAPS, PAPS.

Appendix 1 – Indicative operation numbers for Paediatric Surgery

Operation group see list in Appendix 2 for different procedures included as “etc”	Total ops	Performed +/- Supervision or Teaching
GI Surgery totals	105	60
Upper GI endoscopy and biopsy etc	50	30
Fundoplication etc	10	8
Small bowel resection etc	10	6
Small/large bowel stoma formation etc	10	6
Laparotomy for adhesions etc	11	6
PSARP etc	8	2
Pull through for Hirschsprungs etc	6	2
Laparoscopy totals	70	45
Diagnostic laparoscopy	26	16
Laparoscopic appendicectomy	20	15
Laparoscopic other	24	14
Oncology/endocrine totals	80	40
Tumour nephrectomy	5	1
Resection of Neuroblastoma	4	0
Tumour Biopsy	8	4
Lymphnode biopsy	7	5
Excision of thyroglossal cyst etc	8	5
Central venous line placement etc	48	25
Neonatal totals	100	70
TOF etc	10	6
Repair of diaphragmatic hernia etc	10	6
Repair of abdominal wall defects etc	15	9
Correction of malrotation/duodenal atresia	10	6
Surgery for intestinal path NEC etc	20	14
Neonatal Colorectal surgery	20	14
Repair of neonatal Inguinal hernia	25	15
General Surgery of Childhood totals	250	130
Circ, inguinal hernia etc	200	100
Repair of epigastric/umbilical hernia etc	10	5
Pyloromyotomy (open/closed)	20	10
Appendicectomy (see laparoscopic group also)	20	15
Thoracic totals	25	12
Chest drain insertion	12	6
Pleural debridement for empyema (open or thoracoscopic)	8	4
Lung biopsy/resection etc (open or thoracoscopic)	5	2
Urology totals	160	80
Cystourethroscopy etc	26	15
Ureteric access – STING, stent	11	6

Hypospadias repair	20	6
Nephrectomy/partial nephrectomy (open or laparoscopic)	6	3
Nephrostomy (open/perc)	3	0
Pyeloplasty (open or laparoscopic)	8	3
Reimplantation of ureter	3	0
Bladder augmentation	4	0
ACE	5	0
Mitrofanoff	4	0
Orchidopexy	60	40
Surgery for impalpable UDT (open or laparoscopic)	10	7

Appendix 2 - PBAs required for certification in Paediatric Surgery (years ST 6 - 8)

Gastrointestinal excl neonates

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|----|--|---------|
| a. | Diagnostic upper GI endoscopy | level 4 |
| b. | Insertion of PEG tube | level 4 |
| c. | Fundoplication (open or laparoscopic) | level 4 |
| d. | Small bowel or colonic resection/anastomosis | level 4 |
| e. | Small/large bowel stoma formation, small/large bowel stoma closure | level 4 |
| f. | Laparotomy for adhesions | level 4 |
| g. | PSARP/pull through for anorectal anomaly | level 3 |
| h. | Pull through for Hirschsprungs Disease | level 3 |

Laparoscopy

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|----|--|---------|
| a. | Diagnostic laparoscopy for abdominal pathology, undescended testis | level 4 |
| b. | Laparoscopic appendicectomy | level 4 |

Oncology/ Venous Access/Lumps and bumps

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|----|---|---------|
| a. | Tumour biopsy (open/laparoscopic/thoracoscopic) | level 4 |
| b. | Lymphnode biopsy | level 4 |
| c. | Excision of thyroglossal cyst/branchial remnant/fistula | level 4 |
| d. | Central venous line insertion (open/percutaneous)/portacath insertion | level 4 |

Neonatal

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|----|--|---------|
| a. | Repair of oesophageal atresia | level 4 |
| b. | Repair of diaphragmatic hernia/eventration | level 4 |
| c. | Repair of abdominal wall defects (gastroschisis, exomphalos) | level 4 |
| d. | Surgery to correct malrotation/duodenal atresia | level 4 |
| e. | Surgery for small intestinal pathology (NNEC, intestinal atresia, meconium ileus, creation and closure of ileostomy) | level 4 |
| f. | Neonatal colorectal surgery (NNEC, colonic atresia, creation and closure of colostomy)/anoplasty | level 4 |
| g. | Repair of neonatal inguinal hernia | level 4 |

General Surgery of Childhood

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|----|---|---------|
| a. | Circumcision, inguinal herniotomy, ligation PPV, orchidopexy | level 4 |
| b. | Repair of epigastric hernia, repair of umbilical/supra-umbilical hernia | level 4 |
| c. | Pyloromyotomy (open or laparoscopic) | level 4 |
| d. | Open appendicectomy | level 4 |

Thoracic

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|----|-----------------------|---------|
| a. | Chest drain insertion | level 4 |
| b. | Thoracotomy | level 4 |
| c. | Thoracoscopy | level 3 |

Urology

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|----|--|---------|
| a. | Cystourethroscopy, suprapubic catheterization | level 4 |
| b. | Distal hypospadias repair | level 4 |
| c. | Nephrectomy | level 4 |
| d. | Pyeloplasty | level 4 |
| e. | Peritoneal dialysis catheter insertion/removal | level 3 |