

Acute Abdominal Pain Pathway



Clinical Assessment / Management Tool for Children – Oxfordshire Patient Pathway

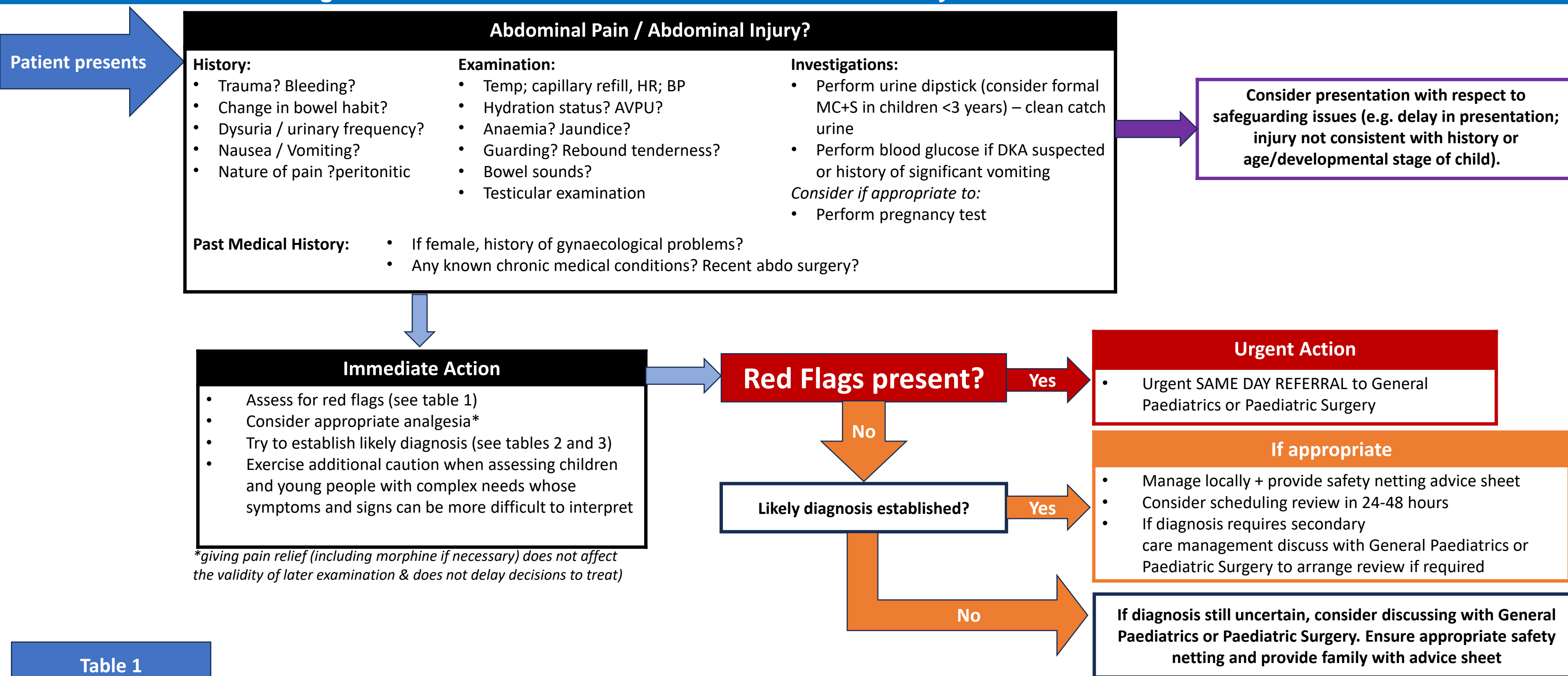


Table 1

Medical Red Flags	Surgical Red Flags	Red Flags (medical or surgical)
<ul style="list-style-type: none"> Septic appearance (fever, tachycardia, generally unwell) Respiratory symptoms (tachypnoea, respiratory distress) Generalised oedema – suspect nephrotic syndrome Significant dehydration (clinically or >5% weight loss) Purpuric or petechial rash (suspect sepsis and/or meningococcal disease if febrile) Jaundice Polyuria / polydipsia (suspect diabetic ketoacidosis) 	<ul style="list-style-type: none"> Peritonitis (guarding, percussion tenderness, constant dull pain exacerbated by movement) Suggestion of bowel obstruction (colicky abdominal pain, abdominal distension, bilious vomiting, resonant bowel sounds) History of recent significant abdominal trauma History of recent abdominal surgery Irreducible hernia Testicular pain – consider torsion, esp after puberty “Red currant jelly” stool 	<ul style="list-style-type: none"> Severe or increasing abdominal pain Blood in stool Frank haematuria Abdominal distension Bilious (green) or blood-stained vomit Palpable abdominal mass Child unresponsive or excessively drowsy Child non-mobile or change in gait pattern due to pain Ongoing moderate to severe pain despite analgesia

Consider Paediatric Urgent Care Pathway

Alternatives to hospital admission when GPs are considering referral:

- Oxford Paediatric Advice/Referral Line Tel: 01865 227533, Option 1 for HGH and Option 2 for JRH.
- If no response Tel: 01865 741166, Bleep 9403 for HGH or 1711/4734 for JRH Paediatrician on call
- Children’s Community Nursing (CCN) Team via single point of access Tel: 01865 902700

Useful numbers for clinicians in the community

John Radcliffe Hospital Tel: 01865 741166
Horton General Hospital Tel: 01295 275500
Royal Berkshire Hospital Tel: 0118 322 5111
Great Western Hospital Tel: 01793 604020
Stoke Mandeville Hospital Tel: 01296 315000

This guidance has been reviewed and adapted by the Children’s Hospital at Home Working Group, with representatives from Oxford University Hospitals NHS Foundation Trust, Oxford Health Foundation Trust and General Practice, with consent from the Hampshire development groups.

This document was arrived at after careful consideration of available evidence, including, but not exclusively, NICE, SIGN, EBM data and NHS evidence as applicable. This pathway is to support clinicians in decision making and management.

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Table 2

Differential Diagnosis	Most important features
Appendicitis	Fever, anorexia, migration of pain from central to RIF, peritonism (clinical or history suggestive), tachycardia
Constipation	History of infrequent, large or hard stools. Pain mainly left sided / supra pubic. If acute look for organic causes (i.e. obstruction). New onset constipation is unusual in teenagers.
Diabetic ketoacidosis	Known diabetic or history of polydipsia/ polyuria and weight loss, BM >15 and ketosis
Gastroenteritis	Diarrhoea and/or vomiting, other family members affected
Haemolytic Uraemic Syndrome (HUS)	Unwell child with bloody diarrhoea, pallor, oliguria or abnormal bruising/bleeding
Henoch Schoenlein Purpura (HSP)	Diffuse/colicky abdominal pain, non-blanching rash (obligatory sign), swollen ankles/knees, haematuria/ proteinuria
Infantile colic	Young healthy infant with episodes of inconsolable cry and drawing up of knees, flatus
Intussusception	Mostly < 2 yrs, pain intermittent with increasing frequency, vomits (sometimes with bile), drawing up of knees, lethargy, may be calm/well between episodes, redcurrant jelly stool (late sign)
Irreducible hernia	Painful enlargement of previously reducible hernia +/- signs of bowel obstruction
Lower lobe pneumonia	Referred abdominal pain and triad of: fever, cough and tachypnoea
Meckel's diverticulum	Usually painless rectal bleeding. Symptoms of intestinal obstruction. Can mimic appendicitis
Mesenteric adenitis	Generally occurs age 5-10 years. There is often a current or recent URTI. Can be hard to distinguish from appendicitis but no peritonism. Site and severity of pain typically not constant and child may be hungry.
Non-specific recurrent abdominal pain	With excluded organic causes. Non-specific recurrent abdominal pain
Pancreatitis	Central severe pain. Nausea. Unusual in children but important to not miss.
Sickle cell crisis	Refer to sickle cell disease guideline for differentiation with non-crisis causes
Testicular torsion	More common after puberty. Sudden onset, swollen tender testis. Have low threshold for discussing all testicular pain with paediatric surgical team
Trauma	Always consider NAI. Surgical review necessary
UTI	Fever, dysuria, loin/abdominal pain, urine dipstick positive for nitrites/ leucocytes – Investigate and manage as per UTI pathway

Table 3

Female gynaecological pathologies	
Menarche	On average 2 yrs after first signs of puberty (breast development, rapid growth). Average age in UK is 13 yrs
Mittelschmerz	One sided, sharp, usually < few hours, in middle of cycle (ovulation)
Pregnancy	Sexually active, positive urine pregnancy test
Ectopic pregnancy	Pain usually 5-8 weeks after last period, increased by urination/ defaecation,. Late presentations associated with bleeding (PV, intra-abdominal)
Pelvic inflammatory disease	Sexually active. Risk increase with: past hx of PID, IUD, multiple partners. Fever, lower abdo pain, discharge, painful intercourse
Ovarian torsion	Sudden, sharp, unilateral pain often with nausea/ vomiting. Fever if necrosis develops