

Acute Abdominal Pain Pathway

Clinical Assessment/ Management tool for Children



Management - Primary Care and Community Settings

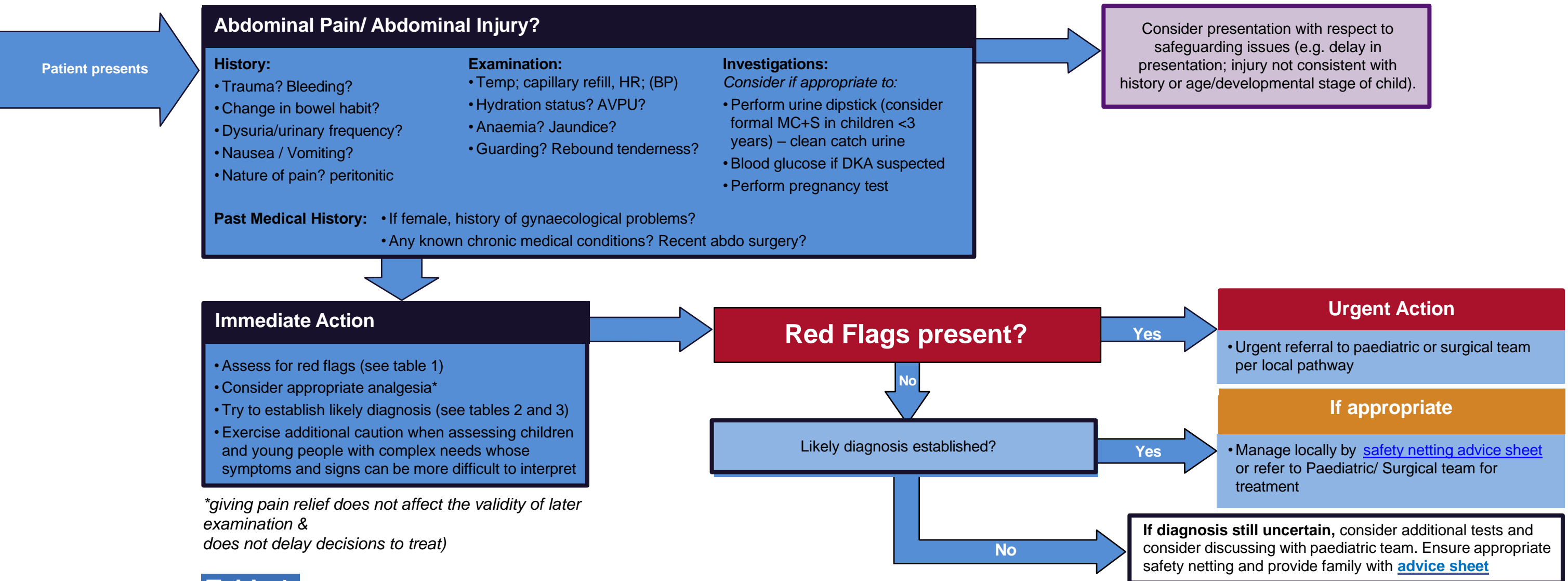


Table 1

| 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, cough) • 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 abdo pain, 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 • Significant Blood in stool • 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 |

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Table 2

| Differential Diagnosis | Most important features |
|--|---|
| Appendicitis | Fever, loss of appetite, migration of pain from central to RIF, peritonism (clinical or history suggestive), tachycardia, raised CRP (or CRP rise after 12 hours) |
| Constipation | History of infrequent, large or hard stools. Pain mainly left sided/ supra pubic. If acute look for organic causes (ie obstruction). New onset constipation is unusual in teenagers. |
| Diabetic ketoacidosis | Known diabetic or history of polydipsia/ polyuria and weight loss, BM >15, metabolic acidosis ($\text{HCO}_3^- < 15$) and ketosis |
| Gastroenteritis | Diarrhoea and/or vomiting, other family members affected |
| Haemolytic Uraemic Syndrome (HUS) | Unwell child with bloody diarrhoea and triad of: anaemia, thrombocytopenia & renal failure |
| 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. Include amylase in blood tests. |
| Sickle cell crisis | Nearly exclusively in black children. |
| 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 |