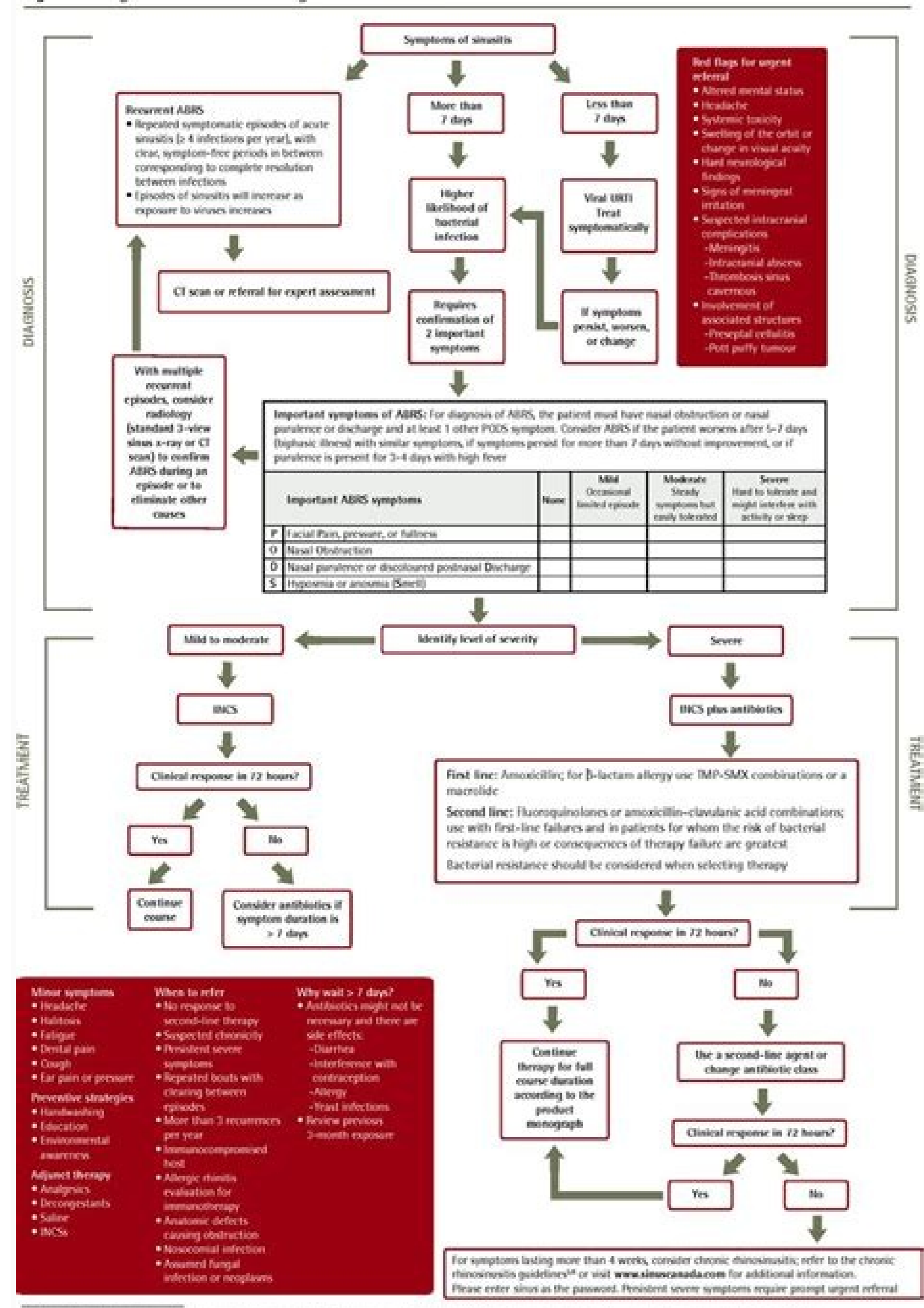


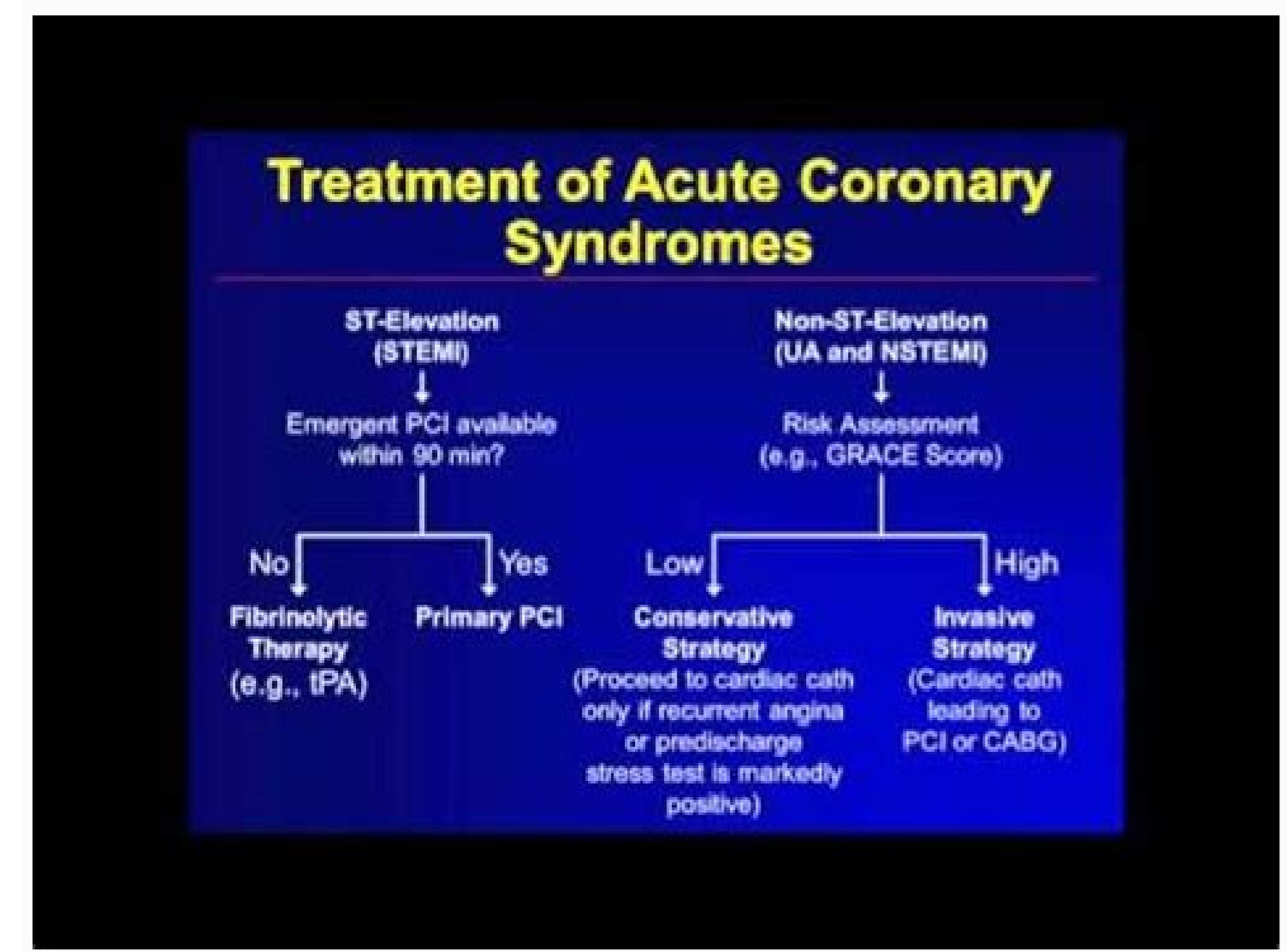
I'm not robot!



Figure 1. Diagnosis and treatment algorithm for ABRS



ABRS—acute bacterial rhinosinusitis, CT—computed tomography, ICS—intranasal corticosteroids, IMP-SMX—trimethoprim-sulfamethoxazole, URTI—upper respiratory tract infection. Adapted from Douvrou et al.<sup>18</sup>

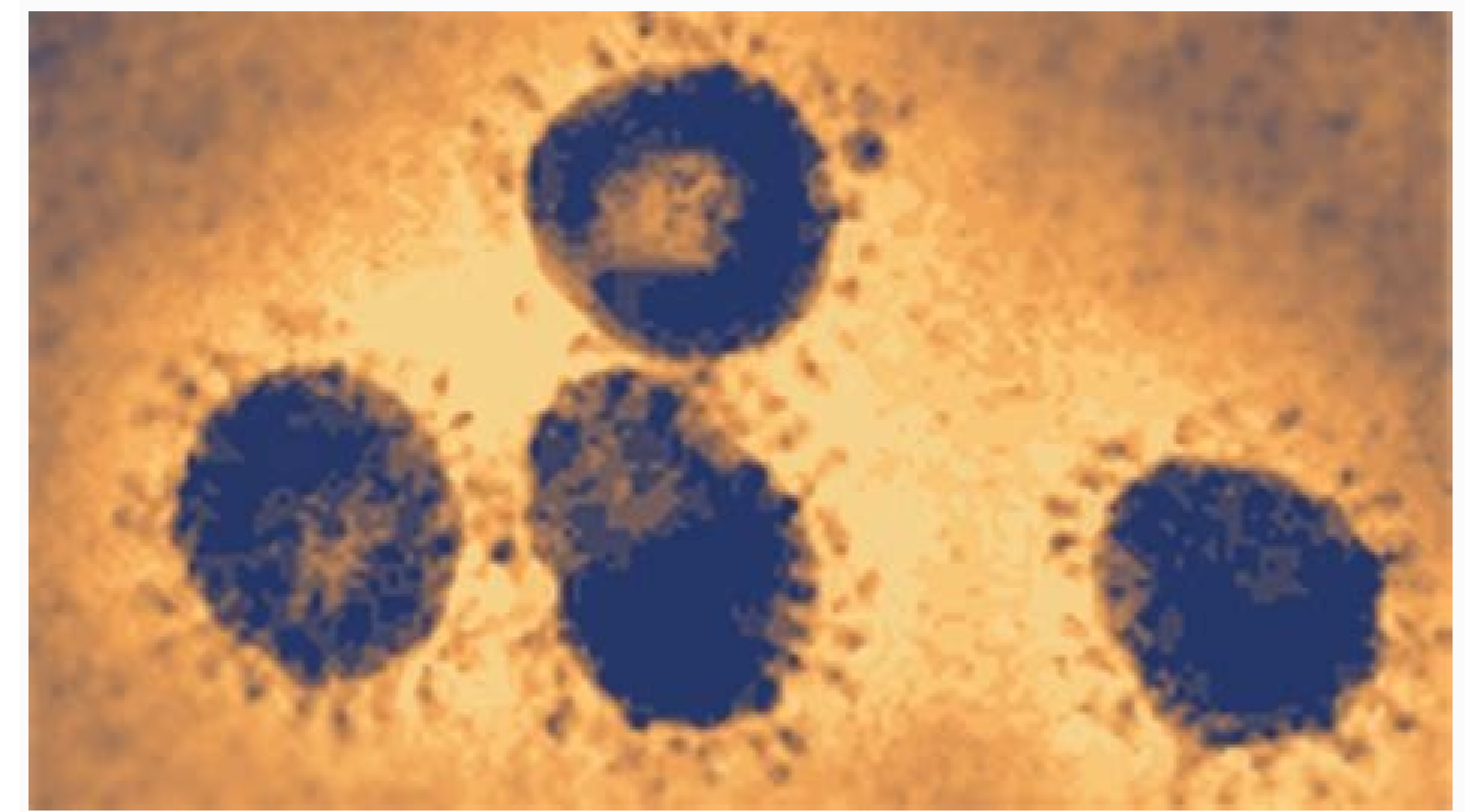


**Cinchonism** is a pathological condition caused by an overdose of quinine, quinidine or their natural source, cinchona bark.

Some symptoms include:

- Sweaty and flushing skin
- Tinnitus (ringing in ear)
- Blurred vision
- Headache
- Confusion

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Acute diarrhea guidelines. Acute diarrhea treatment guidelines pdf. Acute diarrhea guidelines 2019. What is the best treatment for acute diarrhea.

Diarrhea is a condition characterized by frequent passing of abnormally loose or watery stools. Often, diarrhea is accompanied by stomach pain, abdominal cramps, and bloating. In severe cases, it can lead to dehydration, and weight loss. There are many causes of diarrhea including virus, bacteria, parasites, certain medications, lactose intolerance, fructose, artificial sweeteners, and other digestive disorders. In most cases, diarrhea will resolve within two days. If it lasts longer than two days, or if it is accompanied by fever, bloody stools, or severe abdominal pain, you should seek medical attention. A person who has diarrhea should avoid foods that aggravate the stomach and may cause spasms, such as milk products, fatty foods, and alcohol. Recommended foods for those with loose bowels include bananas, white rice, applesauce, white bread, and potatoes and other simple starches. British Society of Gastroenterology guidelines for the investigation of chronic diarrhoea adults [35] Clinical assessment Recommend a careful detailed history to plan investigations. Recommend screening blood tests for the exclusion of anaemia, colitic disease, etc, as well as stool tests for inflammation. Recommend making a positive diagnosis of irritable bowel syndrome (IBS) following basic blood and stool screening tests. Cancer or inflammation Recommend excluding colorectal cancer in those with altered bowel habit ± rectal bleeding by colonoscopy. Suggest use of testing for fecal blood loss by fecal immunochemical testing in primary or secondary care, either as an exclusion test or to guide priority of investigations in those with lower gastrointestinal symptoms (chronic diarrhea) but without rectal bleeding. Fecal calprotectin is recommended to exclude colonic inflammation in those suspected with IBS and under the age of 40. Secondary clinical assessment If symptoms persist despite normal first-line investigations and treatment, then referral for further investigations is recommended. We recommend blood and stool tests to exclude malabsorption and common infections (especially in the immunocompromised or elderly). Common disorders In those with functional bowel or IBS-diarrhea, a positive diagnosis of bile acid diarrhea should be made either by selenium-75-homocholic acid taurine (75SeHCAT) testing or serum bile acid precursor 7α-hydroxy-4-cholesten-3-one (7αHCO, or 7αC4) (depending on local availability). Recommend colonoscopy with biopsies of the right and left colon (not rectal) to exclude microscopic colitis. Malabsorption If lactose maldigestion is suspected, suggest hydrogen breath testing (if available) or withdrawal of dietary lactose/carbohydrates from the diet. Magnetic resonance (MR) enterography (MRE) is recommended for evaluation of small bowel abnormalities depending on availability. Video capsule endoscopy (VCE) is recommended for assessing small bowel abnormalities depending on local availability. We do not recommend small bowel barium follow through or barium enteroclysis for the evaluation of small bowel abnormalities because of its poor sensitivity and specificity. Recommend endoscopy only for targeted lesions identified by MRE or VCE and not for diagnosis of chronic diarrhea. Recommend fecal elastase testing when fat malabsorption is suspected. We do not recommend para-aminobenzoic acid (PABA) testing. MR imaging (MRI) (rather than computed tomography (CT)) is recommended for assessing structural anomalies of the pancreas in suspected chronic pancreatitis. If small bowel bacterial overgrowth is suspected, we recommend an empirical trial of antibiotics, as there is insufficient evidence to recommend routine hydrogen or methane breath testing. Surgical and structural disorders We recommend use of anorectal manometry and endoanal ultrasound only when other local pathology has been excluded and conservative measures exhausted. Recommend radiologic modalities for the investigation of fistulae—MRI or CT with contrast follow through. Rare causes Diarrhea due to hormone secreting tumors is rare; hence, we recommend testing only when other causes of diarrhea have been excluded. Canadian Association of Gastroenterology (CAG) diagnostic and treatment guidelines for bile acid diarrhea (BAD) The Canadian Association of Gastroenterology (CAG) has issued guidelines on the diagnosis and treatment of bile acid diarrhea (BAD). [37] Diagnosis of bile acid diarrhea In patients with chronic nonbloody diarrhea, the initial assessment for suspected bile acid diarrhea (BAD) should be based on risk factors (history of cholecystectomy, terminal ileal resection, radiotherapy) rather than symptoms. In patients with chronic diarrhea, including diarrhea-predominant irritable bowel syndrome (IBS-D) and functional diarrhea, 75selenium homocholic acid taurine (SeHCAT) testing or 7α-hydroxy-4-cholesten-3-one (C4) assay is recommended to evaluate for BAD. SeHCAT testing is also recommended in patients with persistent diarrhea who have Crohn disease of the small intestine without objective evidence of inflammation. The guidelines do not take a position for or against the use of fibroblast growth factor 19 (FGF19) for BAD diagnosis. In patients with suspected BAD, SeHCAT testing is preferred over initiation of bile acid sequestrant therapy (BAST) to establish diagnosis. Induction therapy for bile acid diarrhea In patients with type 1 or type 3 BAD, any remediable causes (eg, Crohn disease, microscopic colitis, small intestinal bacterial overgrowth (SIBO)) should be treated along with BAD to induce a clinical response. In patients with BAD, cholestyramine treatment is preferred over no treatment to induce a clinical response. Cholestyramine is preferred over other BASTs as initial therapy except in patients who cannot tolerate cholestyramine. In patients who are receiving empiric BAST, the daily dose should be gradually treated to minimize adverse effects. BAST is discouraged in patients with Crohn disease with extensive ileal involvement or resection. Patients with BAD who have recurrent or worsening symptoms despite stable BAST therapy should be re-evaluated diagnostically. Concurrent medications should be reviewed in patients being considered for BAST therapy to minimize the possibility of drug interactions. Maintenance treatment for bile acid diarrhea In patients with BAD in whom BAST elicits a response, a trial of intermittent on-demand dosing is recommended. Patients who are unable to tolerate BAST should receive alternative antidiarrheal agents instead of no treatment to alleviate long-term symptoms. Empiric BAST being given as maintenance therapy should be administered at the lowest dose necessary to minimize symptoms. The guidelines do not take a position on whether to recommend for or against measuring fat-soluble vitamin levels at baseline and annually thereafter. This website uses cookies. By continuing to use this website you are giving consent to cookies being used. For information on cookies and how you can disable them visit our Privacy and Cookie Policy. Got it, thanks! World Gastroenterology Organisation Global GuidelinesProf. M. Farthing (Chair, United Kingdom)Prof. M. Salam (Special Advisor, Bangladesh)Prof. G. Lindberg (Sweden) Prof. P. Dite (Czech Republic) Prof. I. Khalif (Russia) Prof. E. Salazar-Lindo (Peru) Prof. B.S. Ramakrishna (India) Prof. K. Goh (Malaysia) Prof. A. Thomson (Canada) Prof. A.G. Khan (Pakistan) Drs. J. Krabshuis (France) Dr. A. LeMair (Netherlands)Click to expand section According to the World Health Organization (WHO) and UNICEF, there are about two billion cases of diarrheal disease worldwide every year, and 1.9 million children younger than 5 years of age perish from diarrhea each year, mostly in developing countries. This amounts to 18% of all the deaths of children under the age of five and means that more than 5000 children are dying every day as a result of diarrheal diseases. Of all child deaths from diarrhea, 78% occur in the African and South-East Asian regions. Each child under 5 years of age experiences an average of three annual episodes of acute diarrhea. Globally in this age group, acute diarrhea is the second leading cause of death (after pneumonia), and by the incidence and the risk of mortality from diarrheal diseases are greatest among children in this age group, particularly during infancy; thereafter, rates decline incrementally. Other direct consequences of diarrhea in children include growth faltering, malnutrition, and impaired cognitive development in resource-limited countries. During the past three decades, factors such as the widespread availability and use of oral rehydration salts (ORS), improved rates of breastfeeding, improved nutrition, better sanitation and hygiene, and increased coverage of measles immunization are believed to have contributed to a decline in the mortality rate in developing countries. In some countries, such as Bangladesh, a reduction in the case fatality rate (CFR) has occurred without appreciable changes in the water supply, sanitation, or personal hygiene, and this can be attributed largely to improved case management. ORS and nutritional improvements probably have a greater impact on mortality rates than the incidence of diarrhea. Prevailing poor living conditions and insignificant improvements in water, sanitation, and personal hygiene, despite some improvement in nutrition, is perhaps important in explaining the lack of impact on the incidence. Interventions such as exclusive breastfeeding (which prevents diarrhea), continuation of breastfeeding until 24 months of age, and improved complementary feeding (by way of improved nutrition), along with improved sanitation, are expected to affect mortality and morbidity simultaneously. The recommended routine use of zinc in the management of childhood diarrhea, not currently practiced in many countries, is expected to reduce disease incidence. In industrialized countries, relatively few patients die from diarrhea, but it continues to be an important cause of morbidity that is associated with substantial health-care costs. However, the morbidity from diarrheal diseases has remained relatively constant during the past two decades. In this guideline, specific pediatric details are provided in each section as appropriate. In developing countries, enteric bacteria and parasites are more prevalent than viruses and typically peak during the summer months. Diarrheogenic *Escherichia coli*. The distribution varies in different countries, but enterohemorrhagic *E. coli* (EHEC), including *E. coli* O157:H7) causes disease more commonly in the developed countries. Enterotoxigenic *E. coli* (ETEC) causes traveler's diarrhea. Enteropathogenic *E. coli* (EPEC) rarely causes disease in adults. Enteroinvasive *E. coli* (EIEC)\* causes bloody mucoid (dysentery) diarrhea; fever is common. Enterohemorrhagic *E. coli* (EHEC)\* causes bloody diarrhea, severe hemorrhagic colitis, and the hemolytic uremic syndrome in 6–8% of cases; cattle are the predominant reservoir of infection. Pediatric details. Nearly all types cause disease in children in the developing world: Enteroaggregative *E. coli* (EAaggC)\* causes watery diarrhea in young children and persistent diarrhea in children with human immunodeficiency virus (HIV). Enterotoxigenic *E. coli* (ETEC) causes diarrhea in infants and children in developing countries. Enteropathogenic *E. coli* (EPEC) causes disease more commonly in children < 2 years, and persistent diarrhea in children. \* EIEC and EHEC are not found (or have a very low prevalence) in some developing countries. *Campylobacter*: Asymptomatic infection is very common in developing countries and is associated with the presence of cattle close to dwellings. Infection is associated with watery diarrhea; sometimes dysentery. Guillain-Barré syndrome develops in about one in 1000 of people with *Campylobacter* colitis; it is thought to trigger about 20–40% of all cases of Guillain-Barré syndrome. Most people recover, but muscle weakness does not always completely resolve. Poultry is an important source of *Campylobacter* infections in developed countries, and increasingly in developing countries, where poultry is proliferating rapidly. The presence of an animal in the cooking area is a risk factor in developing countries. Pediatric details. *Campylobacter* is one of the most frequently isolated bacteria from the feces of infants and children in developing countries, with peak isolation rates in children 2 years of age and younger. *Shigella* species: Hypoglycemia, associated with very high case fatality rates (CFRs) (43% in one study) occurs more frequently than in other types of diarrheal diseases S. sonnei is common in developed countries, causes mild illness, and may cause institutional outbreaks. S. flexneri is endemic in many developing countries and causes dysentery and persistent illness; uncommon in developed countries. S. dysenteriae type 1 (Sd1) — the only serotype that produces Shiga toxin, as does EHEC. It also is the epidemic serotype that has been associated with many outbreaks during which CFRs can be as high as 10% in Asia, Africa, and Central America. For unexplained reasons, this serotype has not been isolated since the year 2000 in Bangladesh and India. Pediatric details. An estimated 160 million episodes occur in developing countries, primarily in children. It is more common in toddlers and older children than in infants. Vibrio cholerae: Many species of Vibrio cause diarrhea in developing countries. All serotypes (>2000) are pathogenic for humans. V. cholerae serogroups O1 and O139 are the only two serotypes that cause severe cholera, and large outbreaks and epidemics. In the absence of prompt and adequate rehydration, severe dehydration leading to hypovolemic shock and death can occur within 12–18 h after the onset of the first symptom. Stools are watery, colorless, and flecked with mucus; often referred to as “rice-watery” stools. Vomiting is common; fever is typically absent. There is a potential for epidemic spread; any infection should be reported promptly to the public health authorities. Pediatric details. In children, hypoglycemia can lead to convulsions and death. Salmonella: Enteric fever — Salmonella enterica serovar Typhi and Paratyphi A, B, or C (typhoid fever); fever lasts for 3 weeks or longer; patients may have normal bowel habits, constipation or diarrhea. Animals are the major reservoir for salmonellae. Humans are the only carriers of typhoidal Salmonella. In nontyphoidal salmonellosis (Salmonella gastroenteritis), there is an acute onset of nausea, vomiting, and diarrhea that may be watery or dysentery in a small fraction of cases. The elderly and people with immune-compromised status for any reason (e.g., hepatic and lymphoproliferative disorders, hemolytic anemia), appear to be at the greatest risk. Pediatric details: Infants and children with immune-compromised status for any reason (e.g., severe malnourishment) appear to be at the greatest risk. Fever develops in 70% of affected children. Bacteremia occurs in 1–5%, mostly in infants. Viral agents In both industrialized and developing countries, viruses are the predominant cause of acute diarrhea, particularly in the winter season. Rotavirus: Accounts for one-third of diarrhea hospitalizations and 500,000 deaths worldwide each year. Associated with gastroenteritis of above-average severity. Pediatric details. Leading cause of severe, dehydrating gastroenteritis among children. Nearly all children in both industrialized and developing countries get infected by the time they are 3–5 years of age. Neonatal infections are common, but are often asymptomatic. The incidence of clinical illness peaks in children between 4 and 23 months of age. Human caliciviruses (HuCVs): Belong to the family Caliciviridae—the norviruses and sapoviruses (previously called “Norwalk-like viruses” and “Sapporo-like viruses.”) Norviruses are the most common cause of outbreaks of gastroenteritis, affecting all age groups. Pediatric details. Sapoviruses primarily affect children. This may be the second most common viral agent after rotavirus, accounting for 4–19% of episodes of severe gastroenteritis in young children. Adenovirus infections most commonly cause illnesses of the respiratory system. Pediatric details: depending on the infecting serotype, this virus may cause gastroenteritis especially in children. Parasitic agents Cryptosporidium parvum, Giardia intestinalis, Entamoeba histolytica, and Cyclospora cayentensis: these are uncommon in the developed world and are usually restricted to travelers. Pediatric details. Most commonly cause acute diarrheal illness in children. These agents account for a relatively small proportion of cases of infectious diarrheal illnesses among children in developing countries. G. intestinalis has a low prevalence (approximately 2–5%) among children in developed countries, but as high as 20–30% in developing regions. Cryptosporidium and Cyclospora are common among children in developing countries; frequently asymptomatic. Table 1 Overview of causative agents in diarrhea \* These agents are no longer reported in the Indian subcontinent. Although there may be clinical clues, a definitive etiological diagnosis is not possible clinically (Tables 2–4). Table 2 Episodes of diarrhea can be classified into three categories: Table 3 Linking the main symptoms to the causes of acute diarrhea—enterohemorrhagic *E. coli* (EHEC) Table 4 Clinical features of infection with selected diarrheal pathogens Key: + +, common; +/– occurs; –/–, variable; –, not common. Pediatric details. Identification of a pathogenic bacterium, virus, or parasite in a stool specimen from a child with diarrhea does not indicate in all cases that it is the cause of illness. Measurement of serum electrolytes may be required in some children with a longer duration of diarrhea with moderate or severe dehydration, particularly with an atypical clinical history or findings. Hyponatremic dehydration is more common in well-nourished children and those infected with rotavirus, and features irritability, increased thirst disproportionate to clinical dehydration, and a doughy feel to the skin. This requires specific rehydration methods. Prognostic factors and differential diagnosis in children Table 10 Prognostic factors in children Differential diagnosis of acute diarrhea in children: Pneumonia—may occur together with diarrhea in developing countries Otitis media Urinary tract infection Bacterial sepsis Meningitis Integrated management of childhood illness (IMCI). In developing countries, a large proportion of childhood morbidity and mortality is caused by five conditions: acute respiratory infections, diarrhea, measles, malaria, and malnutrition. The IMCI strategy has been developed to address the overall health of children presenting with signs and symptoms of more than one condition. In such cases, more than one diagnosis may be necessary and treatments for the conditions may have to be combined. Care needs to be focused on the child as a whole and not just the individual diseases or conditions affecting the child, while other factors that affect the quality of care delivered to children—such as drug availability, organization of the health-care system, referral pathways and services, and community behaviors—are best addressed through an integrated strategy. The IMCI strategy encompasses a range of interventions to prevent and manage major childhood illness, both in health facilities and in the home. It incorporates many elements of the diarrheal and acute respiratory infection control program, as well as child-related aspects of malaria control, immunization, and essential drugs program (WHO). Bangladesh: see www.dhaka.gov.bd Oral rehydration therapy (ORT) is the administration of appropriate solutions by mouth to prevent or correct diarrheal dehydration. ORT is a cost-effective method of managing acute gastroenteritis and it reduces hospitalization requirements in both developed and developing countries. Global ORS coverage rates are still less than 50% and efforts must be made to improve coverage. Oral rehydration salts (ORS), used in ORT, contain specific amounts of important salts that are lost in diarrhea stool. The new lower-osmolality ORS (recommended by WHO and UNICEF) has reduced concentrations of sodium and glucose and is associated with less vomiting, less stool output, lesser chance of hyponatremia, and a reduced need for intravenous infusions in comparison with standard ORS (Table 11). This formulation is recommended irrespective of age and the type of diarrhea including cholera. ORT consists of: Rehydration—water and electrolytes are administered to replace losses. Maintenance fluid therapy to take care of ongoing losses once rehydration is achieved (along with appropriate nutrition). Table 11 Constituents of oral rehydration salts (ORS) ORT is contraindicated in the initial management of severe dehydration and also in children with paralytic ileus, frequent and persistent vomiting (more than four episodes per hour), and painful oral conditions such as moderate to severe thrush (oral candidiasis). However, nasogastric administration of ORS solution is potentially life-saving when intravenous rehydration is not possible and the patient is being transported to a facility where such therapy can be administered. Rice-based ORS is superior to standard ORS for adults and children with cholera, and can be used to treat such patients wherever its preparation is convenient. It is not superior to standard ORS in the treatment of children with acute noncholera diarrhea, especially when food is given shortly after rehydration, as is recommended to prevent malnutrition. Supplemental zinc therapy, multivitamins, and minerals in children Zinc deficiency is widespread among children in developing countries. Routine zinc therapy, as an adjunct to ORT is useful in modest reduction of the severity but more importantly reduce diarrhea episodes in children in developing countries. The recommendation for all children with diarrhea It has been confirmed that different probiotic strains (see Tables 8 and 9 in WGO's Guideline on probiotics at including L. reuteri ATCC 55730, L. rhamnosus GG, L. casei DN-114 001, and Saccharomyces cerevisiae (boulardii) are useful in reducing the severity and duration of acute diarrheal illness in children. The oral administration of probiotics shortens the duration of acute diarrheal illness in children by approximately 1 day. Several meta-analyses of controlled clinical trials have been published that show consistent results in systematic reviews, suggesting that probiotics are safe and effective. The evidence from studies on viral gastroenteritis is more convincing than the evidence on bacterial or parasitic infections. Mechanisms of action are strain-specific; there is evidence for efficacy of some strains of lactobacilli (e.g., Lactobacillus casei GG and Lactobacillus reuteri ATCC 55730) and for Saccharomyces boulardii. 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