

Figure (1): Algorithm for the diagnosis and management of cow's milk protein allergy (CMPA) in exclusively breast-fed infants. eHF, extensively hydrolysed formula.

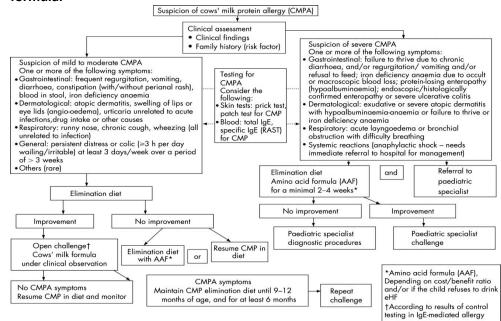


Figure (2) Algorithm for the diagnosis and management of cow's milk protein allergy (CMPA) in formula-fed infants.



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Cow milk allergy

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* Overview:

Milk allergy is an abnormal response by the body's immune system to milk and products containing milk. It's one of the most common food allergies in children. Cow's milk is the usual cause of milk allergy, but milk from sheep, goats, buffalo and other mammals also can cause a reaction.

Avoiding milk and milk products is the primary treatment for milk allergy. Fortunately, most children outgrow milk allergy. Those who don't outgrow it may need to continue to avoid milk products.

* Symptoms:

Milk allergy symptoms, which differ from person to person, occur a few minutes to a few hours after milk or eats milk products.

* Symptoms in infants with immediate-onset reactions to cow's milk

Cutaneous

- Pruritus without skin lesions
- Urticaria
- Angio-oedema
- Atopic eczema exacerbation

Gastrointestinal

- Vomiting
- Diarrhoea
- Bloody stools
- Gastro-oesophageal reflux
- Abdominal pain

Respiratory

- **A.** Upper respiratory
 - Rhinitis
 - Nasal congestion

B. Lower respiratory

- Wheeze
- Cough
- Stridor
- Difficulty breathing

Cardiovascular

- Hypotension/shock
- Prostration

General

- Anaphylaxis
- Irritability
- Failure to thrive

* Common gastrointestinal symptoms in cow's milk allergy (Delayed onset)

Vomiting/posseting
Irritability (colic)
Dysphagia
Diarrhea
Constipation

*Some symptoms and signs related to CMPA

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	Infants and toddlers	Older children	Immediate reaction (within min-2 h after ingesting CMP)	
Digestive	Dysphagia Frequent regurgitation Colic, abdominal pain Vomiting Anorexia, refusal to feed Diarrhea_intestinal protein or blood loss Constipation_perianal rash Failure to thrive Occult blood loss Iron-deficiency anemia	Dysphagia Food impaction Regurgitation Dyspepsia Nausea, vomiting Anorexia, early sa Diarrhea_intesting or blood loss Constipation Abdominal pain Occult blood loss	•	
Respirator		on-deficiency anemia Runny nose Wheezing Chronic coughing (a to infections)	Wheezing or stridor Breathing difficulties	
Skin	Urticaria (unrelated to infection drug intake, or other causes) Atopic eczema Angioedema (swelling of lips or eyelids	ns, Urticaria (unrelated drug intake, or oth Atopic eczema Angioedema (swellin or eyelids)	er causes) Angioedema	
General	Anaphylaxis Shock-like symptoms with se metatobolic acidosis, vomitin and diarrhea (FPIES)		Anaphylaxis FPIES	