

About Food Protein-Induced Enterocolitis Syndrome

Written in collaboration by: The FPIES Foundation Board of Directors and Medical Advisory Board

Food Protein-Induced Enterocolitis Syndrome (FPIES) is a type of food allergy affecting the gastrointestinal (GI) tract. Classic symptoms of FPIES include profound vomiting, diarrhea, and dehydration. These symptoms can lead to severe lethargy, change in body temperature and blood pressure. Unlike typical food allergies, symptoms may not be immediate and do not show up on standard allergy tests. Furthermore, the negative allergy evaluation may delay the diagnosis and take the focus off the causative food. Nonetheless, FPIES can present with severe symptoms following ingestion of a food trigger.

FPIES Common Symptoms:

There are two ways that infants or children with FPIES might come to medical attention.

- 1. The classic pattern of an FPIES reaction is when a healthy infant or child develops symptoms shortly after eating a food. There is a characteristic delay of 2-3 hours before onset of severe and repetitive vomiting and eventually diarrhea. The child may appear very ill and sleepy (lethargic), and may become pale or blue. When evaluated by a doctor, he/she may be found to have low blood pressure, seem dehydrated, and have blood tests that mimic infection (sepsis); which in some cases can lead to sepsis-like shock. Many infants who are eventually diagnosed with FPIES are initially suspected to have a severe infection or sepsis.
- 2. The second common pattern of FPIES reaction symptoms occurs when infants who are ingesting a problem food (usually milk or soy-based formula or proteins in breast milk) as a consistent part of their diet might experience increasingly severe vomiting, diarrhea, and poor growth, possibly progressing to an illness mimicking a severe total-body infection. Please note that each child is unique and your child may experience their own range and intensity of these symptoms.

FPIES Common Triggers:

In the first months of life, FPIES reactions are most often caused by cow's milk protein formula, and sometimes by soy. Proteins in breast milk may also cause symptoms in some infants.

For infants experiencing FPIES with solid foods, rice and oats are the most common triggers. Current research reports other common triggers that include, but are not limited to, milk, soy, barley, poultry, peas, green beans, sweet potatoes, and squash. However, any food protein can be a trigger and some infants may be sensitive to other foods as well. In addition, some children may react to one or two foods whereas others may experience reactions to multiple foods.

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FPIES Diagnosis and Testing:

FPIES is a non-IgE food allergy, which unlike classic food allergy, cannot be diagnosed with readily available food allergy tests such as skin prick test (SPT) or blood test that measure food IgE antibodies (RAST). These tests are helpful to identify triggers for typical food allergies that result in immediate hives, wheezing, and swelling and are characteristically *negative* in FPIES. An FPIES diagnosis is usually made by considering the history of the characteristic symptoms and exclusion of various alternative illnesses. A medical doctor, often an allergist and/or gastroenterologist, should be involved in making the diagnosis. Although Atopy Patch testing (APT) is often used for FPIES patients, it is not considered a validated test for FPIES diagnosis. Blood tests performed during a reaction may be helpful since the results often mimic the body's response to infection. The most definitive test is a medically supervised oral food challenge (OFC)-where the suspect food is given to the child in a controlled clinical environment. An oral food challenge, however, is not often needed initially if the doctor has excluded alternative illnesses and the medical history is consistent with FPIES.

FPIES Treatment and Course:

FPIES reactions can be severe. It is important to get to prompt medical attention where treatment, such as fluids given into the vein to help stabilize blood pressure and treat dehydration, can be given in order to avoid sepsis-like shock. Although some doctors prescribe epinephrine to stabilize blood pressure before medical treatment, the main therapy is to get intravenous fluids; also steroids can be used to quell the immune reaction. Preparing a letter for potential trips to the ER, containing both FPIES information and a list of your child's triggers, may be helpful.

Unfortunately, there are currently no simple tests for FPIES. The primary test, as mentioned above, is a medically supervised oral food challenge with the trigger food. The good news is that FPIES usually resolves with time. Your child will need to be closely followed by his/her doctor to discuss what foods are safe to eat and when it may be time to determine if FPIES has resolved. With proper medical attention and a personalized dietary plan to ensure proper nutrition, children with FPIES can grow and thrive.

About FPIES is a written collaboration of The FPIES Foundation Board of Directors and The FPIES Foundation's Medical Advisory Board: Sakina S. Bajowala, MD; J. Andrew Bird, MD; April Clark, RD/LD; John J. Lee, MD; Fred Leickly, MD, MPH; David R. Naimi, DO; Harumi Jyonouchi, MD; Scott H. Sicherer, MD; Anna Nowak-Wegrzyn, MD.

Additional Useful Resources:

- Caubet, J.; Nowak-Wegrzyn, A. Current Understanding of the Immune Mechanisms of FPIES. Expert Review. Clinical Immunology. 2011; 7(3), 317-327
- 2. Jyonouchi, H. Non-IgE Food Allergy. Inflammation & Allergy. Drug Target. 2008; 7(3): 1-7.
- Nowak-Wegrzyn, A.; Sampson, H.A.; Wood, R.A.; Sicherer, S.H. Food Protein-Induced Enterocolitis Syndrome Caused by Solid Food Proteins. PEDIATRICS April 2003; 111 (4): 829-835.
- Sampson HA, Anderson JA. Summary and recommendations: classification of gastrointestinal manifestations due to immunologic reactions to foods in infants and young children. J. Pediatr. Gastroenterol. Nutr. 30(Suppl.), S87– S94 (2000).
- Giovanna M., et al. Food Protein-Induced Enterocolitis Syndrome by cow's milk proteins passed through breast milk. The Journal of Allergy and Clinical Immunology. March 2011; 127 (3): 679-80.

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FPIES (Food Protein-Induced Enterocolitis Syndrome) is a type of food allergy affecting the gastrointestinal (GI) tract. Classic symptoms of FPIES include profuse vomiting, diarrhea, and dehydration. These symptoms can lead to severe lethargy, change in body temperature and blood pressure. Unlike typical food allergies, symptoms may not be immediate and do not show up on standard allergy tests. Furthermore, a negative allergy evaluation may delay the diagnosis and take the focus off the causative food. Nonetheless, FPIES can present with severe symptoms following ingestion of a food trigger.

Symptoms:

- The classic pattern of an FPIES reaction following the ingestion of a trigger food is the delayed onset (2-3 hours or more) of dramatic symptoms, including severe and repetitive vomiting and diarrhea possibly leading to sepsis-like shock.
- The chronic reaction pattern includes increasingly severe vomiting, diarrhea, and poor growth, possibly progressing to an illness mimicking a severe total-body infection.

Triggers:

- In the first months of life, FPIES reactions are most often caused by cow's milk protein formula, and sometimes by soy; proteins in breast milk may also cause symptoms in some infants.
- For infants experiencing FPIES with solid foods, rice and oats are the most common triggers. Any food protein can trigger a reaction; some children may react to 1-2 foods whereas others may experience reactions to multiple foods.

Testing:

- FPIES is a non-IgE food allergy. Unlike typical food allergies, symptoms may not be immediate and do not include hives, swelling or wheezing, and do not show up on standard allergy tests.
- An FPIES diagnosis is usually made by an allergist or gastroenterologist and takes into account patient history, as well as ruling out various other possible conditions.

Treatment:

- FPIES reactions are severe. Immediate medical attention is needed for IV hydration and monitoring.
- With proper medical attention and a personalized dietary plan to ensure proper nutrition, children with FPIES can grow and thrive.

To learn more visit: www.thefpiesfoundation.org or contact us at: contact@thefpiesfoundation.org

The FPIES Foundation is an incorporated 501(c)(3) non-profit foundation dedicated to overcoming the challenges of FPIES by offering tools for education, support, and advocacy to empower families and the medical community.



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A Q&A Sampler: Questions from the FPIES Community, Answers from Our Medical Advisory Board (excerpts)

For expanded answers and additional topics, be sure to visit:

www.fpiesfoundation.org/fpies-questions-and-answers-from-the-medical-advisory-board/

My child was just diagnosed with FPIES- now what?

- Get ready to go to school! The more you learn about your child's diagnosis, the better prepared you will be to serve as an advocate for his/her needs.
- 2) Prepare to partner with your physicians! Remember that you have a common goal the health and happiness of your child. Find physicians you trust and with whom you can have open communication to help guide the way.
- 3) Get Support! Take advantage of the experience of parents who have walked in your shoes, and join a local or online support group for parents of children with FPIES. This support will be invaluable.
- 4) Get your family on board! Once you have a confirmed diagnosis, plan to sit down with key family members to help them learn about FPIES and how they can help your child stay safe and thrive.

I suspect FPIES, but what do I do if my child's doctor is not familiar with FPIES?

Because FPIES is an uncommon diagnosis, it is possible that your child's doctor may not be familiar with it. That's okay, and it is not an indication that you need a new physician. Let your doctor know what you're thinking in advance. Your physician deserves some time to educate herself about FPIES before offering an opinion. Consider a phone call, letter or email to your doctor to lay the foundation for the discussion, and include a copy of a recent medical journal review article on the topic. (Here's a suggestion: "The Current Understanding of the Immune Mechanisms of FPIES"). Ask if you can schedule an appointment to discuss the possibility of FPIES once your doctor has had an opportunity to review your child's chart and the literature.

What do I need to know about other conditions that may mimic FPIES?

In a young child, viral gastroenteritis with dehydration, sepsis (a severe infection) and anaphylaxis are conditions that may mimic FPIES during an acute symptomatic episode; abdominal surgical emergencies, such as intussusception or necrotizing enterocolitis (in infants), may also present similarly. These other diagnostic possibilities are important considerations and may lead to other diagnostic tests.

My child has additional symptoms not mentioned in the FPIES definition. Could he/she still have FPIES?

There can be variability in symptoms and they may not always match the "classical" descriptions. In severe FPIES reactions, shivering, fever or low body temperature were reported infrequently. Some children develop diarrhea with mucous or blood within 6 hours following an FPIES reaction. However, symptoms that start immediately (within minutes) following an ingestion of the food, such as itching, hives, sneezing or coughing suggest an IgE-mediated food allergic reaction, not FPIES. Remember that a child may have FPIES to one food and an IgE-mediated food allergy to other foods, or may develop sudden, IgE type reactions (hives, swelling, etc) to the FPIES trigger food. If you suspect that your child is reacting to a food, you should consult his/her pediatrician for advice and consider an evaluation by an allergist.

Why was my child able to eat his/her trigger foods one or more times before causing a reaction?

Often, allergic reactions, including FPIES do not occur on the first exposure to the offending food. Sometimes the immune system does not "attack" until there are repeated exposures. Nonetheless, there is frequently a reaction on the first "known" exposure, presumably because of some prior small exposures.

In what ways can I help my child during a reaction?

It is important to keep your child comfortable and get to medical attention for treatment. If your child has had prior severe FPIES reactions, is vomiting repeatedly, appears ashen-gray or lethargic, call 911 immediately. If you know your child ate their trigger food, you should head off to medical attention, such as an ER rather than a doctors office, so that monitoring and potential treatments can begin promptly. If prior reactions were mild (such as 1-2 episodes of vomiting) and self-limited and your child appears comfortable and is no longer vomiting, oral rehydration with clear fluids or ice chips at home may be sufficient, but always speak with your doctor. Wait 10-15 minutes after an episode of vomiting and start offering small amount e.g. I tsp-Itbs of clear liquids every 5 minutes. Do not offer larger volumes of fluid because they may provoke more vomiting.



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What can I expect at the first allergist and/or gastroenterologist appointment?

Be prepared to be asked many questions from your specialist. Your answers to those questions are essential because the diagnosis of FPIES is what is called a 'clinical diagnosis'. This term, 'a clinical diagnosis', refers to conditions where there is no definitive laboratory tests to confirm or make a diagnosis. In these instances, the doctor depends on the child's medical history to decide what is going on. What the specialist needs to know (you may want to write this down in advance of the appointment!)-

- What happened? What were the symptoms experienced by the child?
- 2. What was the time course of the child' symptoms? What foods were involved?
- 3. How old was the child at the time of the event(s)?
- 4. How many times has this happened? Was it the same every time?
- 5. What was the timing from the exposure to a suspected food to the onset of the child' symptoms?
- 6. What was done to take care of the child? How long did it take for the child to recover?
- 7. What advice were you given about handling future events?
- 8. What tests have been done? Other questions will be asked to help rule out those other medical conditions especially infection or food allergy. The selection of tests may depend on whether or not the child is currently having an acute episode or is currently well and has recovered from the event.

What medical professionals are important in monitoring my child's care plan?

In addition to continuing your relationship with your child's primary care provider, the assistance of a Board Certified Allergist-Immunologist and/or pediatric Gastroenterologist will help to ensure your child is avoiding the food associated with his/her reaction. In addition to obtaining a thorough history, these specialists may need to perform one or more food challenges. Additional medical team members may include:

- A Registered Dietitian to assure that your child is receiving appropriate nutrition to reach his or her maximum growth
 potential and to provide education regarding safe dietary elimination.
- An Occupational Therapist or Speech Therapist may be necessary if your child requires feeding therapy secondary to an
 oral aversion he or she may have developed due to food restrictions.
- A Social Worker may provide direction and guidance obtaining coverage for medical expenses and medically necessary formulas. He/she can also point your family in the direction of an therapeutic services that may be needed.

What are the goals of long term management of FPIES?

- 1) To maintain proper nutrition
- 2) To obtain "safe" foods
- 3) To be ready to treat an accidental exposure that results in a reaction
- 4) To be monitored for possible resolution of the allergy with a goal to expand the diet if possible
- 5) To seek out a support system for the child as well as the family.

How do I safely provide foods for my child?

- Learning to read ingredient labels becomes an essential skill for families to safely prepare foods for a child with FPIES.
- Mastering basic ingredient substitutions and learning to modify familiar recipes can help to provide more dietary options
- Learning your child's degree of sensitivity and response to cross contaminants
- When eating away from home, consider doing research about the restaurant in advance and carrying allergy information
 cards when visiting the restaurant.
- A registered dietitian may provide ideas regarding avoidance of trigger foods and ensuring dietary needs are met.
- When preparing to enroll your child in daycare or school settings, you may consider:
 - 1. Meeting with school professionals to discuss your child's condition and degree of sensitivity.
 - 2. Discussing with school professionals the potential for food exposures throughout the day.
 - 3. Drafting a formal plan such as a 504 plan (based on your child's qualifications)
 - 4. Preparing snacks and/or meals with foods only from home.
 - 5. Preparing an emergency plan so that professionals know how to recognize an FPIES reaction in your child.



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	Action Plan for FPIES		
Child's name:	"Nickname":	DOB:/	
Primary language spoken:	Address:		
Guardian: Pho	one: Guardian:	Phone:	
Emergency Contact:	Phone:	Alt. Phone:	
Classroom/Teacher:	Grade: Contact Inform	ation:	
Physician:	Phone: Off	ice/hospital	
Physician:	Phone: Of	e/hospital	
Instructions when contacting physician: _			
Child's Allergens/Trigger Foods:		☆ indicates history of shock + indicates history of additiona	
		non-FPIES symptoms	
<u> </u>			
At BASELINE my child:			
At BASELINE my child: MAINTENANCE strategies include:			
100 PT - 1 TO 10			
100 PT - 1 TO 10			
MAINTENANCE strategies include: Mild to Moderate Reaction Symptoms:			
MAINTENANCE strategies include: Mild to Moderate Reaction Symptoms: Symptom/ Set of Symptoms:			
MAINTENANCE strategies include: Mild to Moderate Reaction Symptoms: Symptom/ Set of Symptoms: Intervention:			
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MAINTENANCE strategies include: Mild to Moderate Reaction Symptoms: Symptom/ Set of Symptoms: Symptom/ Set of Symptoms: Intervention: Symptom/ Set of Symptoms:			
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MAINTENANCE strategies include: Mild to Moderate Reaction Symptoms: Symptom/ Set of Symptoms: Intervention: Symptom/ Set of Symptoms: Symptom/ Set of Symptoms: Intervention: Symptom/ Set of Symptoms: Intervention:	for More Details):		
MAINTENANCE strategies include: Mild to Moderate Reaction Symptoms: Symptom/ Set of Symptoms: Intervention: Symptom/ Set of Symptoms: Intervention: Symptom/ Set of Symptoms: Intervention: Severe Reaction Symptoms (See ER Plant History of Acute FPIES with Shock? Ye	for More Details): s No History/High Risk for Anap		



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FPIES Emergency Action Plan					
Child's name:	"Nickname":		DOB:		
Primary language spoken:	Address				
Guardian: P	hone: Guar	dian:	Phone:		
Emergency Contact:	Phone	h	_Alt. Phone:		
Physician:	Phone:	Office /hospital_			
Physician:	Phone:	Office /hospital_			
Instructions when contacting physician.					
Primary Physician's Requests.					
		Signed.			
Child's Allergens/Trigger Foods.			 ☆ indicates history of shock + indicates history of additional non-FPIES symptoms 		
FFIES (K52.21). Food Protein-Induced typical food allergies, symptoms may allergic reaction include repetitive vomiting the allergic. Even trace amounts can trigger a reaction includes lethargy, hypotension, acident (e.g. normal saline bolus, hydration) and steroit response. This information is being given so the Alternately, some children affected by FFIES extraction pattern does not typically require innuments be appropriately reported to the provider	not be immediate and do not so at may not start for a few hour ction. There is often diarrhea to mia, and/or methemoglobinemic ds for significant symptoms. That this could be considered in to perience chronic reaction path mediate emergency intervention	how up on standard allergy is (e.g., 2) following ingestic hat starts later (after 6 hours a. The treatment is symptome latter is given because the differential diagnosis for erns independent of the actual it can lead to serious conse	tests. The symptoms of this type of on of the food to which the child is s.) In some cases (about 20%), the natic and can include intravenous fluit pathophysiology is that of a T cell this child in the event of symptoms. Though this equences if left untreated and therefore		
Additional Diagnostic Information/Need for	Testing:				
Current Status (What's Happening NOW?): _					

Have you heard of FPIES?

FPIES is...
Food Protein-Induced Enterocolitis Syndrome, a rare but serious food allergy.

•Food Protein-Induced means that food protein "triggers" a

•Enterocolitis means the entire colon (GI tract) can be affected.
•Syndrome means the severity of symptoms vary from child to child.

Having FPIES means.

- Food can cause our children to be sick, some so violently ill they
 may go into shock.
 Although there are common "trigger" foods, any type of protein may
 cause a reaction.
- Avoidance of proteins that trigger a reaction is currently the only safe treatment.

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How can you help TODAY?

- · Eat in designated areas only.
- Clean when you are done eating (even one crumb may trigger a reaction an a child with FPIES).
- Always obtain parental consent before feeding a child.
- Inform parents of a potential exposure immediately.
 Call 911 or "immediately" seek emergency medical help with a known reaction.
 Pass this valuable information along to everyone!

For more information on signs and symptoms of FPIES or how you can help, please visit:



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Have you heard?

There are different types of food allergies...

Food Protein-Induced Enterocolitis Syndrome ("F-PIES") is a rare but serious type of food allergy.

- Symptoms of a reaction are delayed and may occur hours after exposure.
- Although there are 'common trigger' foods, any food can cause an FPIES reaction.
- A severe FPIES reaction can include profuse vomiting, pale skin, extreme sleepiness (lethargy), diarrhea, dehydration, and can quickly lead to shock.
- Signs of shock for an individual with FPIES are severe and include lethargy, pale/grey skin tones, and drastic changes in body temperature and heart rate.

Call 9-1-1 or seek prompt medical attention in the event of a severe reaction that includes fluids or IV resuscitation. (Note: EpiPens will not stop an FPIES reaction.)

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Currently, the only safe treatment for children with FPIES is avoidance of any food that triggers a reaction.

How can you help?

- <u>Serve</u> and eat foods in designated areas only, making sure to clean up any leftover foods immediately after finishing a meal or snack.
- Always obtain parental consent before feeding a child.
- <u>F</u>ollow proper emergency procedures by informing parents of a potential exposure or calling 9-1-1 immediately if a severe reaction is suspected.
- Educate others by passing this information along to everyone!

Just **one crumb-sized portion of an allergen can trigger symptoms and put a child with FPIES at risk for a severe reaction**



For more information, please visit The FPIES Foundation @ www.theFPIESFoundation.org

