

State of California—Health and Human Services Agency California Department of Public Health



Governor

California Department of Public Health HEALTHCARE PROVIDER ADVISORY – November 2, 2016

Recall of Frozen Strawberries from Egypt Potentially Contaminated with Hepatitis A: Post-Exposure Prophylaxis Recommendations

A large recall of frozen Egyptian strawberries that have been distributed widely in the United States, including California, has been issued due to the possibility of hepatitis A virus (HAV) contamination. The U.S. Centers for Disease Control and Prevention (CDC), the U.S. Food and Drug Administration (FDA), and state and local officials have been investigating an outbreak of HAV linked to frozen strawberries imported from Egypt.

For additional details about the investigation, please see the FDA website at: http://www.fda.gov/food/RecallsOutbreaksEmergencies/Outbreaks/ucm518775.htm. For information on product distribution in California, please see the CDPH website at: http://www.cdph.ca.gov/pubsforms/Documents/fdbFrICAPP1d.pdf

Persons who do not need post-exposure prophylaxis (PEP) after exposure to recalled strawberries:

- Persons who are <u>immune</u> to HAV, i.e., those who have received at least one dose of single-antigen HAV vaccine, those who have had previous HAV infection, and those who are HAV IgG positive, do not need PEP.
- HAV vaccine has been routinely recommended for California children since 1999, and most children and young adolescents in California are immune to HAV.

Persons who should be considered for PEP after exposure to recalled strawberries:

- Persons who are <u>susceptible</u> to HAV who have eaten recalled strawberries in the past 14 days <u>may be provided PEP</u>.
- HAV PEP is a dose of single-antigen HAV vaccine or intramuscular (IM) immune globulin (IG) (0.02 mL/kg).

California Department of Public Health recommendations for HAV PEP for susceptible, exposed people:

Age/years	<1*	1-40	41-59	60-74*	75+*	
Healthy	IMIG	Vaccine	Vaccine	IMIG; vaccine if IMIG is in short	IMIG; vaccine if IMIG is	
		preferred	and/or IG	supply or unavailable	unavailable	
Other†	IMIG	IMIG	IMIG	IMIG	IMIG	
	Consider vaccine plus IMIG for possible longer-term protection					

^{*}If IMIG is in short supply or unavailable, single-antigen HAV vaccine may be used for PEP in healthy people 60-74 years of age and in infants >6 months of age. If IMIG is unavailable, single-antigen HAV vaccine may be used for PEP in healthy people aged 75+ years.

†People who should receive IG for PEP regardless of age

CDC recommends that the following people, if susceptible, and regardless of age, receive IG PEP because they are at increased risk of severe HAV infection or may have a decreased immune response to vaccine. Vaccine may be given in addition to IG to potentially provide longer-term protection, but vaccine response may be limited. Clinical guidance should be obtained if patient's immune status is unclear.

- Persons with chronic liver disease (e.g., cirrhosis)
- Immunocompromised persons, including persons:
 - With HIV/AIDS;
 - Undergoing hemodialysis;
 - Who have received solid organ, bone marrow or stem cell transplants;
 - Receiving high dose steroids (>2mg/kg/day);
 - o Receiving chemotherapy, immune modulating and/or biologic medications‡, and

Persons who are otherwise less capable of developing a normal response to immunization.

‡mercaptopurine, methotrexate, infliximab, adalimumab, etanercept, tacrolimus, mycophenolate, etc.

There is only one manufacturer of IMIG in the United States. GamaSTAN® is available in 2 mL and 10 mL single use vials. One source of IMIG is FFF Enterprises, which can be reached 24/7 at: 1-800-843-7477.

For more information, see:

https://www.cdph.ca.gov/programs/immunize/Documents/CDPH_HAV%20PEP%20Clinical%20Guidance.pdf https://www.cdph.ca.gov/programs/immunize/Documents/CdphHavIGPepGuidance.pdf

Healthcare providers may use the screening tool below to evaluate patients for hepatitis A PEP:

٥٠k	healthcare provider recommendations:	
	igible for PEP: ☐ Yes ☐ No	
4.	ne person has not had jaundice (yellow skin or eyes) or dark urine (like tea or cola) within the last two mo	nths.
٥.	AV vaccine, at least one month before exposure, is considered protection against HAV.	ie-antigei
	ne person ate the recalled strawberries within the last 14 days. The person does not have a previous history of HAV infection or HAV vaccination. At least one dose of sing	le-antige
	ne person ate strawberries at a restaurant or other facility that served recalled strawberries.	
1.	no person ate strawberries at a restaurant or other facility that served recalled strawberries	
PEP	igibility : A person is eligible for PEP (vaccine or IMIG as appropriate) if <u>all</u> of the following criteria are me	t:
	termine if s/he possibly has HAV. See "Other healthcare provider recommendations" below.	
If r	son said "yes" to these symptoms questions, s/he should be evaluated for HAV infection before PEP is administered	
	Yellow skin or eyes ☐ Yes ☐ No ☐ Not sure	
	Dark urine (like tea or a cola drink)	
	g the past two months have you had:	
_	nt illness:	
or	son said "yes" to any of the above immunity questions, s/he will NOT need PEP. A previous history of HAV infection <i>It vaccination</i> (at least one dose of single-antigen HAV vaccine, at least one month before exposure, is considered action against HAV). Discontinue screening and do <u>not</u> administer PEP.	
ır.		
На	you received an immune globulin (IG or gamma globulin) shot in the last 3 months? — Yes — No — Not sure — If yes: When?	
	If yes: When? How many doses? ☐ 1 ☐ 2 ☐ Not sure	
На	you ever received the hepatitis A vaccine?	
	you ever been diagnosed with hepatitis A?	
	inity:	
on	mptoms of HAV infection and ask them to contact you if they develop symptoms. Discontinue screening and do <u>not</u> nister PEP.	
ıf,	son consumed recalled strawberries but not within the past 14 days, s/he will not be eligible for PEP. Counsel persor	,
_	If yes, did you eat any of them in the last 14 days? Yes No Not sure	
	ou eat strawberries at a restaurant or other facility on the list of facilities with recalled strawberries? S □ No □ Not sure	
	sure:	
_	ed from Colorado Department of Public Health and Environment guidance)	

- 1. Be alert for suspect cases of HAV, especially in patients with a history of consuming recalled strawberries. Clinical jaundice may be a late sign or one that never develops, particularly in children.
- 2. Order HAV IgM antibody serology rather than HAV total antibody serology when working up patients for acute disease. Total HAV antibody positivity may indicate immunity due to previous infection or immunization and is not sufficient evidence of an acute infection.
- 3. Avoid testing people who have no symptoms or elevated liver function tests, but report eating recalled strawberries. False positive HAV IgM test results are common when asymptomatic people are tested.
- 4. Advise patients in sensitive occupations not to work with suspected or confirmed HAV infection. Persons employed in food service, health care, or child care should not be allowed to work in these settings for at least one week after jaundice onset or two weeks after symptom onset (if no jaundice), whichever is later. These persons are at increased risk of spreading the infection to others via the fecal-oral route.
- 5. Promptly report all suspect and confirmed HAV cases to your local health department.