

Hepatitis A

Last updated February 2013

What is hepatitis A?

Hepatitis A is a serious liver disease caused by the hepatitis A virus. Children with the virus often have no symptoms, but they can pass it on to their parents or caregivers, who can get very sick. The hepatitis A vaccine protects against this disease.

What are the symptoms of hepatitis A?

Children under 6 years old usually have no symptoms.

Older children and adults feel very sick and weak. Symptoms may include the following:

- Fever
- Loss of appetite (not wanting to eat)
- Tiredness
- Stomach pain
- Vomiting
- Dark urine
- Yellow skin and eyes

People feel sick 2 to 6 weeks after they get the hepatitis A virus.

How serious is hepatitis A?

Most people with hepatitis A feel very sick for about 2 months. Some people are sick for up to 6 months.

There is no specific treatment for hepatitis A. Some people with hepatitis A get so sick that they need care in the hospital. About 100 people in the U.S. die each year from liver failure caused by hepatitis A.

How does hepatitis A spread?

Hepatitis A virus is found in the stool (feces) of a person who has the virus. It spreads when a person puts something in his or her mouth that has the hepatitis A virus on it. Even if the item looks clean, it can still have virus on it from stool that can spread to others. The amount can be so tiny that it cannot be seen with the naked eye. It can spread by touching objects such as doorknobs or diapers that have virus on them.

Benefits of the hepatitis A vaccine

- Saves lives.
- Protects against serious disease.
- Keeps others safe.

Side effects of the hepatitis A vaccine

The most common side effects are usually mild and last 1 or 2 days. They include the following:

- Sore arm from the shot in about 1 out of 2 people.
- Headache in about 1 out of 6 people.
- Tiredness in fewer than 1 out of 10 people.
- Fever
- Loss of appetite (not wanting to eat) in about 1 out of 12 people.

The virus spreads easily from one family member to another. People are most likely to spread hepatitis A virus in the 2 weeks before they feel sick.

Sometimes the virus can get into food or water. If this happens, the virus can quickly spread to anyone who eats or drinks the affected food or water. But this is uncommon in the United States.

What is the hepatitis A vaccine?

The hepatitis A vaccine prevents hepatitis A disease. It is made from killed (inactivated) virus. The vaccine protects children by preparing their bodies to fight the hepatitis A virus.

Almost all children (at least 94 children out of 100) who get two doses of the vaccine will be protected from hepatitis A.

When should my child get the hepatitis A vaccine?

Children should get the hepatitis A vaccine at 12 through 23 months of age. The vaccine can be less effective if given before 1 year of age. Those who do not get the vaccine by age 2 should get the shot at their next doctor visit.

The vaccine is given in two doses, at least 6 months apart. Children can get the hepatitis A vaccine at the same time as other vaccines.

Why should my child get the hepatitis A vaccine?

Hepatitis A is the most common type of hepatitis among children. Getting your child the hepatitis A vaccine protects him against this serious disease 20 years or longer. It can also protect other people. Because children rarely have symptoms, they often pass hepatitis A on to others without anyone knowing they were infected.

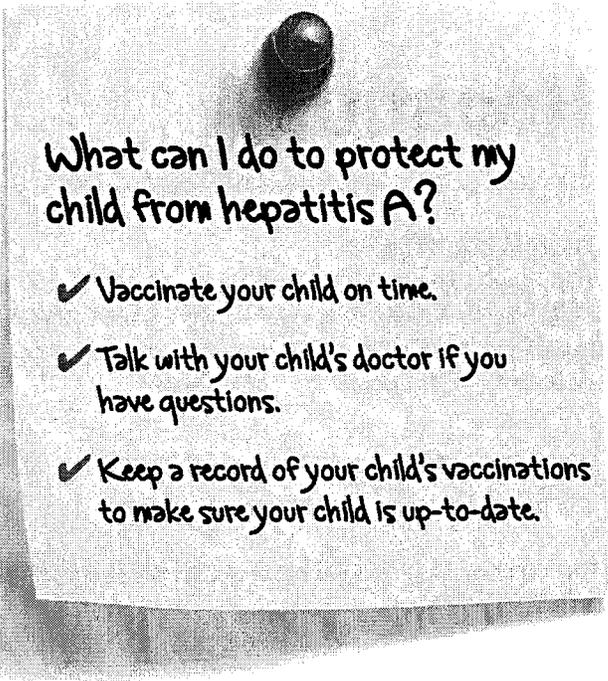
Is the hepatitis A vaccine safe?

The hepatitis A vaccine is very safe, and it is effective at preventing hepatitis A disease. Vaccines, like any medicine, can have side effects. But no serious side effects have been confirmed for the hepatitis A vaccine.

About half of the people who get the hepatitis A vaccine will have no side effects at all. In the other half of people, most report having very mild side effects, like a sore arm from the shot.

If my child does not get the hepatitis A vaccine, will he get the disease?

Because of the use of hepatitis A vaccine, the number of cases of the disease in the U.S. has dropped. However, approximately 17,000 cases were reported to state health departments in 2010 in the United States. A child who is not vaccinated is at risk for getting hepatitis A.



What can I do to protect my child from hepatitis A?

- ✓ **Vaccinate your child on time.**
- ✓ **Talk with your child's doctor if you have questions.**
- ✓ **Keep a record of your child's vaccinations to make sure your child is up-to-date.**

Where can I learn more about the hepatitis A vaccine?

To learn more about the hepatitis A vaccine or other vaccines, talk to your child's doctor.

Call **800-CDC-INFO** (800-232-4636) or go to <http://www.cdc.gov/vaccines> and check out the following resources:

- Parent's Guide to Childhood Immunization—Hepatitis A: <http://www.cdc.gov/vaccines/pubs/parents-guide/default.htm>
- Infant Immunizations FAQs: <http://www.cdc.gov/vaccines/parents/parent-questions.html>
- Vaccines website for parents: <http://www.cdc.gov/vaccines/parents>

The Centers for Disease Control and Prevention, American Academy of Family Physicians, and American Academy of Pediatrics strongly recommend all children receive the hepatitis A vaccine according to the recommended schedule.



24 Month ASQ-3 Information Summary

23 months 0 days through
25 months 15 days

Child's name: _____ Date ASQ completed: _____

Child's ID #: _____ Date of birth: _____

Administering program/provider: _____

1. **SCORE AND TRANSFER TOTALS TO CHART BELOW:** See *ASQ-3 User's Guide* for details, including how to adjust scores if item responses are missing. Score each item (YES = 10, SOMETIMES = 5, NOT YET = 0). Add item scores, and record each area total. In the chart below, transfer the total scores, and fill in the circles corresponding with the total scores.

Area	Cutoff	Total Score	0	5	10	15	20	25	30	35	40	45	50	55	60
Communication	25.17		●	●	●	●	●	●	●	●	○	○	○	○	○
Gross Motor	38.07		●	●	●	●	●	●	●	●	●	○	○	○	○
Fine Motor	35.16		●	●	●	●	●	●	●	●	○	○	○	○	○
Problem Solving	29.78		●	●	●	●	●	●	●	○	○	○	○	○	○
Personal-Social	31.54		●	●	●	●	●	●	●	○	○	○	○	○	○

2. **TRANSFER OVERALL RESPONSES:** Bolded uppercase responses require follow-up. See *ASQ-3 User's Guide*, Chapter 6.

- | | | | | | |
|--|-----|------------|--|------------|----|
| 1. Hears well?
Comments: | Yes | NO | 6. Concerns about vision?
Comments: | YES | No |
| 2. Talks like other toddlers his age?
Comments: | Yes | NO | 7. Any medical problems?
Comments: | YES | No |
| 3. Understand most of what your child says?
Comments: | Yes | NO | 8. Concerns about behavior?
Comments: | YES | No |
| 4. Walks, runs, and climbs like other toddlers?
Comments: | Yes | NO | 9. Other concerns?
Comments: | YES | No |
| 5. Family history of hearing impairment?
Comments: | | YES | No | | |

3. **ASQ SCORE INTERPRETATION AND RECOMMENDATION FOR FOLLOW-UP:** You must consider total area scores, overall responses, and other considerations, such as opportunities to practice skills, to determine appropriate follow-up.

If the child's total score is in the area, it is above the cutoff, and the child's development appears to be on schedule.

If the child's total score is in the area, it is close to the cutoff. Provide learning activities and monitor.

If the child's total score is in the area, it is below the cutoff. Further assessment with a professional may be needed.

4. **FOLLOW-UP ACTION TAKEN:** Check all that apply.

- Provide activities and rescreen in _____ months.
- Share results with primary health care provider.
- Refer for (circle all that apply) hearing, vision, and/or behavioral screening.
- Refer to primary health care provider or other community agency (specify reason): _____
- Refer to early intervention/early childhood special education.
- No further action taken at this time
- Other (specify): _____

5. **OPTIONAL:** Transfer item responses (Y = YES, S = SOMETIMES, N = NOT YET, X = response missing).

	1	2	3	4	5	6
Communication						
Gross Motor						
Fine Motor						
Problem Solving						
Personal-Social						



24 Month Questionnaire

23 months 0 days
through 25 months 15 days

On the following pages are questions about activities children may do. Your child may have already done some of the activities described here, and there may be some your child has not begun doing yet. For each item, please fill in the circle that indicates whether your child is doing the activity regularly, sometimes, or not yet.

Important Points to Remember:

Notes:

- Try each activity with your child before marking a response.
- Make completing this questionnaire a game that is fun for you and your child.
- Make sure your child is rested and fed.
- Please return this questionnaire by _____.

At this age, many toddlers may not be cooperative when asked to do things. You may need to try the following activities with your child more than one time. If possible, try the activities when your child is cooperative. If your child can do the activity but refuses, mark "yes" for the item.

COMMUNICATION

	YES	SOMETIMES	NOT YET	
1. Without your showing him, does your child <i>point</i> to the correct picture when you say, "Show me the kitty," or ask, "Where is the dog?" (<i>She needs to identify only one picture correctly.</i>)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
2. Does your child imitate a two-word sentence? For example, when you say a two-word phrase, such as "Mama eat," "Daddy play," "Go home," or "What's this?" does your child say both words back to you? (<i>Mark "yes" even if her words are difficult to understand.</i>)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
3. Without your giving him clues by pointing or using gestures, can your child carry out at least <i>three</i> of these kinds of directions?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
<input type="radio"/> a. "Put the toy on the table." <input type="radio"/> d. "Find your coat." <input type="radio"/> b. "Close the door." <input type="radio"/> e. "Take my hand." <input type="radio"/> c. "Bring me a towel." <input type="radio"/> f. "Get your book."				
4. If you point to a picture of a ball (kitty, cup, hat, etc.) and ask your child, "What is this?" does your child correctly <i>name</i> at least one picture?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
5. Does your child say two or three words that represent different ideas together, such as "See dog," "Mommy come home," or "Kitty gone"? (<i>Don't count word combinations that express one idea, such as "bye-bye," "all gone," "all right," and "What's that?"</i>) Please give an example of your child's word combinations:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____

COMMUNICATION (continued)

6. Does your child correctly use at least two words like "me," "I," "mine," and "you"?

YES	SOMETIMES	NOT YET	_____
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____

COMMUNICATION TOTAL _____

GROSS MOTOR

1. Does your child walk down stairs if you hold onto one of her hands? She may also hold onto the railing or wall. (You can look for this at a store, on a playground, or at home.)

YES	SOMETIMES	NOT YET	_____
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____

2. When you show your child how to kick a large ball, does he try to kick the ball by moving his leg forward or by walking into it? (If your child already kicks a ball, mark "yes" for this item.)



<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
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3. Does your child walk either up or down at least two steps by herself? She may hold onto the railing or wall.



<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
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4. Does your child run fairly well, stopping herself without bumping into things or falling?



<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
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5. Does your child jump with both feet leaving the floor at the same time?



<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
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6. Without holding onto anything for support, does your child kick a ball by swinging his leg forward?



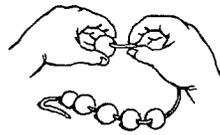
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____*
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GROSS MOTOR TOTAL _____

*If Gross Motor Item 6 is marked "yes" or "sometimes," mark Gross Motor Item 2 "yes."

FINE MOTOR

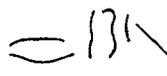
	YES	SOMETIMES	NOT YET	
1. Does your child get a spoon into his mouth right side up so that the food usually doesn't spill?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—
2. Does your child turn the pages of a book by herself? (She may turn more than one page at a time.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—
3. Does your child use a turning motion with his hand while trying to turn doorknobs, wind up toys, twist tops, or screw lids on and off jars?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—
4. Does your child flip switches off and on?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—
5. Does your child stack seven small blocks or toys on top of each other by herself? (You could also use spools of thread, small boxes, or toys that are about 1 inch in size.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—
6. Can your child string small items such as beads, macaroni, or pasta "wagon wheels" onto a string or shoelace?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—
				FINE MOTOR TOTAL —



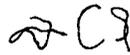
PROBLEM SOLVING

	YES	SOMETIMES	NOT YET	
1. After watching you draw a line from the top of the paper to the bottom with a crayon (or pencil or pen), does your child copy you by drawing a single line on the paper in any direction? (Mark "not yet" if your child scribbles back and forth.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—
				PROBLEM SOLVING TOTAL —
2. After a crumb or Cheerio is dropped into a small, clear bottle, does your child turn the bottle upside down to dump out the crumb or Cheerio? (Do not show him how.) (You can use a soda-pop bottle or baby bottle.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—
3. Does your child pretend objects are something else? For example, does your child hold a cup to her ear, pretending it is a telephone? Does she put a box on her head, pretending it is a hat? Does she use a block or small toy to stir food?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—
4. Does your child put things away where they belong? For example, does he know his toys belong on the toy shelf, his blanket goes on his bed, and dishes go in the kitchen?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—
5. If your child wants something she cannot reach, does she find a chair or box to stand on to reach it (for example, to get a toy on a counter or to "help" you in the kitchen)?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—

Count as "yes"

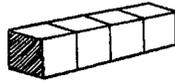


Count as "not yet"



PROBLEM SOLVING (continued)

6. While your child watches, line up four objects like blocks or cars in a row. Does your child copy or imitate you and line up *four* objects in a row? (You can also use spools of thread, small boxes, or other toys.)



YES	SOMETIMES	NOT YET	_____
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

PROBLEM SOLVING TOTAL _____

PERSONAL-SOCIAL

1. Does your child drink from a cup or glass, putting it down again with little spilling?

YES	SOMETIMES	NOT YET	_____
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

2. Does your child copy the activities you do, such as wipe up a spill, sweep, shave, or comb hair?

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
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3. Does your child eat with a fork?

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
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4. When playing with either a stuffed animal or a doll, does your child pretend to rock it, feed it, change its diapers, put it to bed, and so forth?

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
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5. Does your child push a little wagon, stroller, or other toy on wheels, steering it around objects and backing out of corners if he cannot turn?

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
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6. Does your child call herself "I" or "me" more often than her own name? For example, "I do it," more often than "Juanita do it."

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	_____
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PERSONAL-SOCIAL TOTAL _____

OVERALL

Parents and providers may use the space below for additional comments.

1. Do you think your child hears well? If no, explain:

YES NO

2. Do you think your child talks like other toddlers her age? If no, explain:

YES NO

OVERALL (continued)

3. Can you understand most of what your child says? If no, explain:

 YES NO

4. Do you think your child walks, runs, and climbs like other toddlers his age?
If no, explain:

 YES NO

5. Does either parent have a family history of childhood deafness or hearing impairment? If yes, explain:

 YES NO

6. Do you have any concerns about your child's vision? If yes, explain:

 YES NO

7. Has your child had any medical problems in the last several months? If yes, explain:

 YES NO

OVERALL *(continued)*

8. Do you have any concerns about your child's behavior? If yes, explain:

YES

NO

9. Does anything about your child worry you? If yes, explain:

YES

NO

Instructions and Permissions for Use of the M-CHAT

The Modified Checklist for Autism in Toddlers (M-CHAT; Robins, Fein, & Barton, 1999) is available for free download for clinical, research, and educational purposes. There are two authorized websites: the M-CHAT and supplemental materials can be downloaded from www.firstsigns.org or from Dr. Robins' website, at <http://www2.gsu.edu/~wwwpsy/faculty/robins.htm>

Users should be aware that the M-CHAT continues to be studied, and may be revised in the future. Any revisions will be posted to the two websites noted above.

Furthermore, the M-CHAT is a copyrighted instrument, and use of the M-CHAT must follow these guidelines:

- (1) Reprints/reproductions of the M-CHAT must include the copyright at the bottom (© 1999 Robins, Fein, & Barton). No modifications can be made to items or instructions without permission from the authors.
- (2) The M-CHAT must be used in its entirety. There is no evidence that using a subset of items will be valid.
- (3) Parties interested in reproducing the M-CHAT in print (e.g., a book or journal article) or electronically (e.g., as part of digital medical records or software packages) must contact Diana Robins to request permission (drobins@gsu.edu).

Instructions for Use

The M-CHAT is validated for screening toddlers between 16 and 30 months of age, to assess risk for autism spectrum disorders (ASD). The M-CHAT can be administered and scored as part of a well-child check-up, and also can be used by specialists or other professionals to assess risk for ASD. The primary goal of the M-CHAT was to maximize sensitivity, meaning to detect as many cases of ASD as possible. Therefore, there is a high false positive rate, meaning that not all children who score at risk for ASD will be diagnosed with ASD. To address this, we have developed a structured follow-up interview for use in conjunction with the M-CHAT; it is available at the two websites listed above. Users should be aware that even with the follow-up questions, a significant number of the children who fail the M-CHAT will not be diagnosed with an ASD; however, these children are at risk for other developmental disorders or delays, and therefore, evaluation is warranted for any child who fails the screening.

The M-CHAT can be scored in less than two minutes. Scoring instructions can be downloaded from <http://www2.gsu.edu/~wwwpsy/faculty/robins.htm> or www.firstsigns.org. We also have developed a scoring template, which is available on these websites; when printed on an overhead transparency and laid over the completed M-CHAT, it facilitates scoring. Please note that minor differences in printers may cause your scoring template not to line up exactly with the printed M-CHAT.

Children who fail more than 3 items total or 2 critical items (particularly if these scores remain elevated after the follow-up interview) should be referred for diagnostic evaluation by a specialist trained to evaluate ASD in very young children. In addition, children for whom there are physician, parent, or other professional's concerns about ASD should be referred for evaluation, given that it is unlikely for any screening instrument to have 100% sensitivity.



Child's name _____
Date of birth _____
Today's date _____

Filled out by _____
Relationship to child _____

M-CHAT (*Modified Checklist for Autism in Toddlers*)

Please fill out the following about how your child **usually** is. Please try to answer every question. If the behavior is rare (e.g., you've seen it once or twice), please answer as if the child does not do it.

1.	Does your child enjoy being swung, bounced on your knee, etc.?	Yes	No
2.	Does your child take an interest in other children?	Yes	No
3.	Does your child like climbing on things, such as up stairs?	Yes	No
4.	Does your child enjoy playing peek-a-boo/hide-and-seek?	Yes	No
5.	Does your child ever pretend, for example, to talk on the phone or take care of dolls, or pretend other things?	Yes	No
6.	Does your child ever use his/her index finger to point, to ask for something?	Yes	No
7.	Does your child ever use his/her index finger to point, to indicate interest in something?	Yes	No
8.	Can your child play properly with small toys (e.g. cars or bricks) without just mouthing, fiddling, or dropping them?	Yes	No
9.	Does your child ever bring objects over to you (parent) to show you something?	Yes	No
10.	Does your child look you in the eye for more than a second or two?	Yes	No
11.	Does your child ever seem oversensitive to noise? (e.g., plugging ears)	Yes	No
12.	Does your child smile in response to your face or your smile?	Yes	No
13.	Does your child imitate you? (e.g., you make a face-will your child imitate it?)	Yes	No
14.	Does your child respond to his/her name when you call?	Yes	No
15.	If you point at a toy across the room, does your child look at it?	Yes	No
16.	Does your child walk?	Yes	No
17.	Does your child look at things you are looking at?	Yes	No
18.	Does your child make unusual finger movements near his/her face?	Yes	No
19.	Does your child try to attract your attention to his/her own activity?	Yes	No
20.	Have you ever wondered if your child is deaf?	Yes	No
21.	Does your child understand what people say?	Yes	No
22.	Does your child sometimes stare at nothing or wander with no purpose?	Yes	No
23.	Does your child look at your face to check your reaction when faced with something unfamiliar?	Yes	No

