

## Pediatric Documentation Templates

### Acute Respiratory Infection (ARI) Smart Form

#### **Executive Summary**

The Partners Pediatric Acute Respiratory Infection (ARI) smart form is a guideline-driven template designed to streamline urgent care visits for patients ages 6 months to 18 years presenting with ARIs. The form is designed to assist with the assessment and management of non-specific upper respiratory infections, otitis media, pharyngitis, strep pharyngitis, influenza, cough, pneumonia, and sinusitis. The form provides check boxes for symptoms and physical examination specifically related to ARIs; therefore, it does not provide the opportunity to document other problems.

After the provider specifies a primary and possibly a secondary diagnosis, it provides guideline-based options for management. After the provider selects the desired items for the management plan, the system then generates prescriptions, handouts, and a completed note. This web site includes views of each page of the ARI smart form, as well as a preview of the note.

#### **Source**

This template was developed under a grant from the Agency for Healthcare Research and Quality (AHRQ), [Improving Pediatric Safety and Quality with Healthcare IT](#), in collaboration with the Partners HealthCare System Quality Improvement Group, the Massachusetts General Hospital for Children, and Partners HealthCare System Inc. Information Systems. Listed below are the names of clinicians and experts who contributed to development of the template. In addition, the LMR Pediatric Content Subcommittee and the main LMR Content Committee reviewed the template, and approved it for use with the Partners Longitudinal Medical Record (LMR).

#### **Contributors**

Timothy Ferris, MD, MPH; Fabienne Bourgeois, MD, MPH; James Perrin, MD; John Co, MD, MPH; Maya Olsha-Yehiav; Matvey B. Palchuk, MD, MS; Frank Y. Chang; David P. Taylor, MS; Jeffrey L. Schnipper, MD, MPH; Jeffrey Linder, MD, MPH; Qi Li, MD, MBA; Blackford Middleton, MD, MPH, MSc.

# Template



Bwhlmprest,Fourteen (21080445 BWH) 06/01/1999 (7 yrs.) M

Summary	Note Preview	Orders/Plan																																																										
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Smoking	N/A																																																											
Other:	<input type="text"/>																																																											

**Review of Systems**

System	Comments
<input checked="" type="checkbox"/> Chest pain, non-pleuritic	
<input checked="" type="checkbox"/> Nausea	
<input checked="" type="checkbox"/> Vomiting	
<input checked="" type="checkbox"/> Abdominal pain	
<input checked="" type="checkbox"/> Bowel changes	
<input checked="" type="checkbox"/> Urinary changes	
<input checked="" type="checkbox"/> Joint pains	
<input checked="" type="checkbox"/> Dizziness	

Other systems:

**Physical Exam**

VS T: 100.2 °F BP: / / Pulse:   
 O<sub>2</sub> Sat: % Wt: 52 Pounds

Unable to get O<sub>2</sub> Sat from LMR Flowsheet. If entered here, will be recorded into LMR Flowsheet.

Peak Flow:

General: No acute distress

**HEENT**

HEENT	Comments
<input checked="" type="checkbox"/> Conjunctiva	
<input checked="" type="checkbox"/> Pupils	
<input checked="" type="checkbox"/> Tympanic membranes	Left
<input checked="" type="checkbox"/> External auditory canal	
<input checked="" type="checkbox"/> Sinus tenderness	
<input checked="" type="checkbox"/> Nasal mucosal abnormality	
<input checked="" type="checkbox"/> Pharyngeal exudate	
<input checked="" type="checkbox"/> Pharyngeal erythema	
<input checked="" type="checkbox"/> Pharyngeal vesicles (cobblestoning)	

**Neck**

Neck	Comments
<input checked="" type="checkbox"/> Lymphadenopathy	
<input checked="" type="checkbox"/> Tender anterior lymphadenopathy	

**Lung**

Lung	Comments
<input checked="" type="checkbox"/> Lung exam	
<input checked="" type="checkbox"/> Wheezing	

**Heart**

Heart	Comments
<input checked="" type="checkbox"/> Rate and rhythm	
<input checked="" type="checkbox"/> S1 and S2	
<input checked="" type="checkbox"/> Murmurs, rubs, gallops	

**Abdomen**

Abdomen	Comments
<input checked="" type="checkbox"/> Bowel sounds	
<input checked="" type="checkbox"/> Soft	
<input checked="" type="checkbox"/> Tenderness or distension	
<input checked="" type="checkbox"/> Hepatosplenomegaly	

**Extremities**

Extremities	Comments
<input checked="" type="checkbox"/> Cyanosis	
<input checked="" type="checkbox"/> Clubbing	
<input checked="" type="checkbox"/> Rashes	

Other:

- Show/Hide All
- CC
- Symptoms
- HPI
- Remedies
- Problems
- Allergies
- Meds
- Smoking
- RDS
- PE
- Results
- Dx

**Recent Test Results**

Test	Comments
Chest x-ray	
Streptococcal culture	
Influenza test	
Rapid strep test	Negative <input type="checkbox"/> Positive <input type="checkbox"/>

Other recent test results:

**Diagnoses**

1 <sup>st</sup>	2 <sup>nd</sup>	Diagnosis
<input type="checkbox"/>	<input type="checkbox"/>	Non-specific URI
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Otitis media
<input type="checkbox"/>	<input type="checkbox"/>	Non-streptococcal pharyngitis
<input type="checkbox"/>	<input type="checkbox"/>	Streptococcal pharyngitis
<input type="checkbox"/>	<input type="checkbox"/>	Sinusitis
<input type="checkbox"/>	<input type="checkbox"/>	Acute cough/acute bronchitis
<input type="checkbox"/>	<input type="checkbox"/>	Viral syndrome
<input type="checkbox"/>	<input type="checkbox"/>	Influenza
<input type="checkbox"/>	<input type="checkbox"/>	Pneumonia
<input type="checkbox"/>	<input type="checkbox"/>	Other:

Assessment:

**Orders/Plan**

**Otitis media** [Reference information](#)

**Management options**

- Observation with appropriate pain management- defer antibiotics for 48-72 hours
  - children 6months -2 years with nonsevere illness and uncertain diagnosis
  - children >2 years with nonsevere symptoms or uncertain diagnosis

**Prescribe Medications**

**Antibiotics**

- Amoxicillin 500mg (10 ml) po tid x 5 days
- Amoxicillin 500mg (2 tabs) po tid x 5 days
- Amoxicillin 500mg (1 tab) po tid x 5 days
- Amoxicillin 500mg (10 ml) po tid x 10 days
- Amoxicillin 500mg (2 tabs) po tid x 10 days
- Amoxicillin 500mg (1 tab) po tid x 10 days
- Augmentin: 500mg (10 ml) po tid x 5 days
- Augmentin: 500mg (2 caps) po tid x 5 days
- Augmentin: 500mg (10 ml) po tid x 10 days
- Augmentin: 500mg (2 caps) po tid x 10 days
- Cefdinir 325mg (6.5 ml) po qd x 10 days
- Azithromycin 240mg (6 ml) po qd x 3 days
- Azithromycin 240mgx1, 120mg x4 (6 ml) po qd x 1 day ; (3 ml) po qd x 4 days
- Cefpodoxime 120mg (6 ml) po bid x 5 days
- Cefpodoxime 120mg (6 ml) po bid x 10 days

**Other prescription**

- Antipyrine/Benzocaine 2-4 drops to affected ear (s) QID prn

**Recommend OTC Medications**

**Analgesics & Antipyretics**

- Ibuprofen (100mg/5ml), 40mg/ml
- Acetaminophen (160 mg/5ml), 80 mg/0.8ml

**Decongestants**

- Pseudoephedrine (15 mg/5ml, 30mg/5ml, 15 chewable) 2-6 yo 15 mg po q6hr
  - max: 60 mg/day; 6-12 yo 30 mg po q6hr, max: 120 mg/day; >12 yo 60mg po q6hr, max: 240mg/day

**Expectorants**

- Guaifenesin (100/5ml) 2-6 year old 50-100 mg po q4hr (max: 600mg/day); 6-12 year old 100-200 mg po q4hr, max: 1200 mg/day; >12 year old, 200-400 mg po q4hr, max: 2400mg/day

**Cough Suppressants**

- Dextromethorphan (10mg/5ml) 2-6 years old 2.5-5 mg po q4hr, max: 30mg/day;

Save and Exit Save as Final and Exit

[Send ARI Smart Form Feedback](#)

ARI Smart Form - Microsoft Internet Explorer provided by Partners HealthCare System

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**Summary** | Note Preview

Show/Hide All

CC

Symptoms

HPI

Remedies

Problems

Allergies

Meds

Smoking

RDS

PE

Results

Dx

Other:

Recent Test Results

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1st	2nd	Diagnosis
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<input type="radio"/>	<input type="checkbox"/>	Influenza
<input type="radio"/>	<input type="checkbox"/>	Pneumonia
<input type="radio"/>	<input type="checkbox"/>	Other: _____

Assessment:

Other features include patient education handouts, excuse from school and work notes, and a free text box for other plans.

Orders/Plan

Azithromycin 240mgx1, 120mg x4 (6 ml) po qd x 1 day, (3 ml) po qd x 4 days

Cefpodoxime 120mg (6 ml) po bid x 5 days

Cefpodoxime 120mg (6 ml) po bid x 10 days

Other prescription

Antipyrine/Benzocaine 2-4 drops to affected ear (s) QID prn

Recommend OTC Medications

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Combination Products

Pediacare Multisymptom 6-12 years old, 10ml every 4 to 6 hours, not to exceed 4 doses/24 hours, 2 tablets every 4 to 6 hours, not to exceed 4 doses/24 hours

Pediacare Infant decongestant and cough children 2-3 years old 1.6ml every 4 to 6 hours, do not exceed 4 doses/24 hours

Recommend

Call if symptoms worsen, new symptoms arise, or symptoms fail to improve after a total of 14 days

Print

Patient handout about otitis media

Ear Infections and Children

Ear Infections and Children

Your Child and Antibiotics - English

Your Child and Antibiotics - Spanish

Common Childhood Infections - English

Common Childhood Infections - Spanish

Excuse from school note: Child may return to school/daycare in 2 days

Parent excuse from work note: Parent needs to stay home with child for 2 days

Excuse from work note: May return to work in \_\_\_\_\_ days

Other Plan:

Save and Exit | Save as Final and Exit

Send ARI Smart Form Feedback

Remedies

Problems

Allergies

Meds

Smoking

RDS

PE

Results

Dx

Sort

Tenderness or distension

Hepatosplenomegaly

Ex extremities

Comments

http://is.partners.org/aappe/pdf/files/papers/EarInfection1\_HE0193.pdf - Microsoft Int...

Search Web

Options

HOME PAGE

Handouts Availal

All Handouts (

Newborns, Inf

Adolescents a

Common Illnes

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Behavioral and

Safety and Pr

Promoting Pec

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Spanish Transla

Patient Instructions

Comments

Attachments

Pages

Signatures

Bookmarks

Ear Infections and Children

Part I: Symptoms, Treatment, and Complications

Need to know: In the common cold, an ear infection is the most common childhood illness. In fact, most children have had at least one ear infection by the time they are 5 years old. Most children with ear infections clear up without causing any lasting problems. But, if they occur often or are not treated, they can lead to hearing loss or other damage. The American Academy of Pediatrics has developed this brochure to help parents about the symptoms, treatments, and possible complications of acute otitis media, a common infection of the middle ear.

How do ear infections develop?

The ear has three main parts: the outer ear, middle ear, and inner ear (see illustrations). A tiny tube, called the eustachian tube, connects the middle ear to the back of the throat and nose. When a child has a cold, nose or throat infection, or allergy, the eustachian tube can become blocked, causing a buildup of fluid in the middle ear. This fluid becomes infected because a virus or bacteria causes swelling of the membrane and pain in the ear. This type of ear infection is called acute otitis media.

Other than the symptoms of acute otitis media (see list), fluid remains in the ear. Acute otitis media develops into another kind of ear problem called otitis media with effusion. This condition is harder to detect than acute otitis media because, besides the fluid and some hearing loss that is usually mild, there are often no other noticeable symptoms. This fluid often lasts for up to 3 months and, in most cases, disappears on its own. The child's hearing then returns to normal.

Also, the younger a child is at the time of the first ear infection, the greater the chance he or she will have repeated infections.

See, Although treatment is not sure why boys have more ear infections than girls.

Warning! Ear infections can run in families. Children are more likely to have repeated middle-ear infections if a parent or sibling also has repeated ear infections.

Causes/Risk factors. Children who spend a lot of time in group child care settings have a higher chance of catching their colds to each other because they are exposed to more germs and viruses from the other children. Allergies that cause stuffy noses can also lead to ear infections.

Tobacco smoke. Children who breathe in someone else's tobacco smoke have a higher risk of developing health problems, including ear infections.

Bottle-feeding. Babies who are bottle-fed, especially when they are lying down, get more ear infections than breast-fed babies. If you bottle-feed your child, hold him or her head above the horizontal level during feedings. This keeps the eustachian tubes from getting blocked.

Parents can help reduce some of the risk of ear infections. For instance:

- Breastfeed instead of bottle-feed. Breastfeeding may decrease the risk of recurrent colds and ear infections. If you do bottle-feed, do not give your child a bottle while he or she is lying down in the crib or cradle.
- Keep your child away from tobacco smoke, especially in your home or car.
- Try to limit your child's day care.

Symptoms of an ear infection

Your child may have a number of symptoms during an ear infection. Knowing what these symptoms are may help you take care of them more quickly and get medical care if needed.

Pain. The most common symptom of an ear infection is pain. While older children are able to tell you when their ears hurt, younger children may only appear irritable or cry. This may be more noticeable during feedings because sucking and swallowing may cause painful pressure changes in the middle ear. An infant or toddler, however, your child may have less of an appetite. A child who has ear infections may also have more trouble sleeping because lying down can increase ear pain.

There are other reasons besides an ear infection why your child may cry.

Print

Patient handout about otitis media

Ear Infections and Children

Ear Infections and Children

Your Child and Antibiotics - English

Your Child and Antibiotics - Spanish

Common Childhood Infections - English

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Excuse from school note: Child may return to school/daycare in 2 days

Parent excuse from work note: Parent needs to stay home with child for 2 days

Excuse from work note: May return to work in \_\_\_\_\_ days

Other Plan:

1 of 2

Patent education handouts appear in a pop-up window. The provider then prints the handout using the Print feature.

ARI Smart Form - Microsoft Internet Explorer provided by Partners HealthCare System

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Summary **Note Preview**

Note Subject: ARI Smart Form Note: Otitis media

**Using the tab feature, providers can edit and view a preview of their ARI Smart Form note.**

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**CHIEF COMPLAINT**  
Patient presents with a chief complaint of ear pain or stuffiness for 3 days.

**SYMPTOMS**  
Patient complains of subjective fever, ear pain right and headache.

Patient denies documented fever, chills or feeling cold, feeling fatigued, tired, worn-out, ear pain bilateral, ear pain left, ear stuffiness, red or itchy eyes, facial or sinus pain, facial or sinus pressure, runny nose/nasal discharge, post-nasal drip, sore throat, swollen glands, shortness of breath, wheezing, pleuritic chest pain, rash, muscle aches or hydration (PO intake).

**HPI**  
Overall clinical course is worsening. The illness has caused the patient to restrict their activities. Patient's primary goal in seeking care is to get a diagnosis. The patient has sick contacts (School and daycare).

**REMEDIES**  
Patient reports trying analgesics/antipyretics, which were effective. Patient reports not trying cough remedies or antibiotics.  
Other: None.

Smoking

**REVIEW OF SYSTEMS**  
Patient complains of dizziness.

Patient denies non-pleuritic chest pain, nausea, vomiting, abdominal pain, bowel changes, urinary changes or joint pains.

**Orders/Plan**

Azithromycin 240mgx1, 120mg x4 (6 ml) po qd x 1 day ; (3 ml) po qd x 4 days

Cefpodoxime 120mg (6 ml) po bid x 5 days

Cefpodoxime 120mg (6 ml) po bid x 10 days

**Other prescription**

Antipyrine/Benzocaine 2-4 drops to affected ear (s) QID prn

**Recommend OTC Medications**

**Analgesics & Antipyretics**

Ibuprofen (100mg/5ml), 40mg/ml

Acetaminophen (160 mg/5ml), 80 mg/0.8ml

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**Cough Suppressants**

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**Combination Products**

Pediacare Multisymptom 6-12 years old, 10ml every 4 to 6 hours, not to exceed 4 doses/24 hours, 2 tablets every 4 to 6 hours, not to exceed 4 doses/24 hours

Pediacare Infant decongestant and cough children 2-3 years old 1.6ml every 4 to 6 hours, do not exceed 4 doses/24 hours

**Recommend**

Call if symptoms worsen, new symptoms arise, or symptoms fail to improve after a total of 14 days

**Print**

Patient handout about otitis media

[Ear Infections and Children](#)

[Ear Infections and Children](#)

[Your Child and Antibiotics - English](#)

[Your Child and Antibiotics - Spanish](#)

[Common Childhood Infections - English](#)

[Common Childhood Infections - Spanish](#)

Excuse from school note: Child may return to school/daycare in  days

Parent excuse from work note: Parent needs to stay home with child for  days

Excuse from work note: May return to work in  days

Other Plan:

Save and Exit    Save as Final and Exit

[Send ARI Smart Form Feedback](#)

## Disclaimer

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