Complete Summary

GUIDELINE TITLE

Routine preventive services for children and adolescents (ages 2 - 18).

BIBLIOGRAPHIC SOURCE(S)

Michigan Quality Improvement Consortium. Routine preventive services for children and adolescents (ages 2-18). Southfield (MI): Michigan Quality Improvement Consortium; 2007 May. 1 p.

GUIDELINE STATUS

This is the current release of the guideline.

COMPLETE SUMMARY CONTENT

SCOPE

 $\begin{tabular}{ll} METHODOLOGY - including Rating Scheme and Cost Analysis RECOMMENDATIONS \end{tabular}$

EVIDENCE SUPPORTING THE RECOMMENDATIONS

BENEFITS/HARMS OF IMPLEMENTING THE GUIDELINE RECOMMENDATIONS QUALIFYING STATEMENTS

IMPLEMENTATION OF THE GUIDELINE

INSTITUTE OF MEDICINE (IOM) NATIONAL HEALTHCARE QUALITY REPORT CATEGORIES

IDENTIFYING INFORMATION AND AVAILABILITY DISCLAIMER

SCOPE

DISEASE/CONDITION(S)

Preventable diseases or conditions such as:

- Infectious diseases including diphtheria, tetanus, pertussis, poliomyelitis, measles, mumps, rubella, varicella, influenza, meningitis, sexually transmitted infections (STI)
- Overweight
- Injuries due to motor vehicles, bicycles, burns, poisoning, firearms
- Tobacco use/exposure to second-hand smoke
- Hypercholesterolemia
- Cervical cancer
- Unintended pregnancy
- Vision disorders

GUIDELINE CATEGORY

Counseling Prevention Risk Assessment Screening

CLINICAL SPECIALTY

Family Practice
Obstetrics and Gynecology
Pediatrics
Preventive Medicine

INTENDED USERS

Advanced Practice Nurses Health Plans Physician Assistants Physicians

GUIDELINE OBJECTIVE(S)

- To achieve significant, measurable improvements in the routine preventive services for children and adolescents (ages 2 to 18) through the development and implementation of common evidence-based clinical practice guidelines
- To design concise guidelines that are focused on key management components of routine preventive services for children and adolescents to improve outcomes

TARGET POPULATION

Children and adolescents ages 2 to 18 years

INTERVENTIONS AND PRACTICES CONSIDERED

Counseling/Screening/Prevention/Risk Assessment

- 1. Assessment of risk factors
- 2. Parent and child education and counseling regarding:
 - Nutrition, physical activity, dental health, violence and abuse, depression, suicide threats, alcohol and drug abuse, anxiety, stress reduction, coping skills, immunizations, sexually transmitted infection (STI) prevention
 - Motor-vehicle and bicycle safety, poison prevention, burn and injury prevention
 - Preconception and pregnancy prevention
- 3. Screening for tobacco use/second-hand exposure, overweight, cholesterol, sexually transmitted infection, cervical cancer, and vision disorders
- 4. Immunizations

- Diphtheria, tetanus, and acellular pertussis vaccine (DTaP), tetanus-diphtheria-acellular pertussis vaccine(Tdap)
- Inactivated poliovirus vaccine (IPV)
- Measles, mumps, rubella (MMR) or measles, mumps, rubella, and varicella vaccine (MMRV)
- Varicella vaccine
- Meningococcal vaccine
- Influenza vaccine
- Human papilloma virus vaccine

MAJOR OUTCOMES CONSIDERED

Not stated

METHODOLOGY

METHODS USED TO COLLECT/SELECT EVIDENCE

Searches of Electronic Databases

DESCRIPTION OF METHODS USED TO COLLECT/SELECT THE EVIDENCE

The Michigan Quality Improvement Consortium (MQIC) project leader conducts a search of current literature in support of the guideline topic. Computer database searches are used to identify published studies, existing protocols and/or national guidelines on the selected topic developed by organizations such as the American Diabetes Association, American Heart Association, American Academy of Pediatrics, etc. If available, clinical practice guidelines from participating MQIC health plans and Michigan health systems are also used to develop a framework for the new guideline.

NUMBER OF SOURCE DOCUMENTS

Not stated

METHODS USED TO ASSESS THE QUALITY AND STRENGTH OF THE EVIDENCE

Weighting According to a Rating Scheme (Scheme Given)

RATING SCHEME FOR THE STRENGTH OF THE EVIDENCE

Levels of Evidence for the Most Significant Recommendations

- A. Randomized controlled trials
- B. Controlled trials, no randomization
- C. Observational studies
- D. Opinion of expert panel

METHODS USED TO ANALYZE THE EVIDENCE

DESCRIPTION OF THE METHODS USED TO ANALYZE THE EVIDENCE

Not stated

METHODS USED TO FORMULATE THE RECOMMENDATIONS

Expert Consensus

DESCRIPTION OF METHODS USED TO FORMULATE THE RECOMMENDATIONS

Using information obtained from literature searches and available health plan guidelines on the designated topic, the Michigan Quality Improvement Consortium (MQIC) project leader prepares a draft guideline to be reviewed by the medical directors' committee at one of their scheduled meetings. Priority is given to recommendations with [A] and [B] levels of evidence (see "Rating Scheme for the Strength of the Evidence" field).

The initial draft guideline is reviewed, evaluated, and revised by the committee resulting in draft two of the guideline. Additionally, the Michigan Academy of Family Physicians participates in guideline development at the onset of the process and throughout the guideline development procedure. The MQIC guideline feedback form and draft two of the guideline are distributed to the medical directors, as well as the MQIC measurement and implementation group members, for review and comments. Feedback from members is collected by the MQIC project leader and prepared for review by the medical directors' committee at their next scheduled meeting. The review, evaluation, and revision process with several iterations of the guideline may be repeated over several meetings before consensus is reached on a final draft guideline.

RATING SCHEME FOR THE STRENGTH OF THE RECOMMENDATIONS

Not applicable

COST ANALYSIS

A formal cost analysis was not performed and published cost analyses were not reviewed.

METHOD OF GUIDELINE VALIDATION

External Peer Review Internal Peer Review

DESCRIPTION OF METHOD OF GUIDELINE VALIDATION

When consensus is reached on the final draft guideline, the medical directors approve the guideline for external distribution to practitioners with review and comments requested via the Michigan Quality Improvement Consortium (MQIC)

health plans (project leader distributes final draft to medical directors' committee, measurement and implementation groups to solicit feedback).

The MQIC project leader also forwards the approved guideline draft to appropriate state medical specialty societies for their input. After all feedback is received from external reviews, it is presented for discussion at the next scheduled committee meeting. Based on feedback, subsequent guideline review, evaluation, and revision may be required prior to final guideline approval.

The MQIC Medical Directors approved this guideline in May 2007.

RECOMMENDATIONS

MAJOR RECOMMENDATIONS

The level of evidence grades (A-D) are provided for the most significant recommendations and are defined at the end of the "Major Recommendations" field.

Recommendations	2-6 years	7-12 years	13-18 years
Health, developmental and risk assessments	Х	X	X
 Nutrition, physical activity, dental health, violence and abuse, sexually transmitted infection (STI) prevention, depression, suicide threats, alcohol/drug abuse, anxiety, stress reduction, coping skills, immunizations Bicycle safety - helmet use when riding bicycle [B] Motor vehicle safety - Car seat/booster seat/seat belt use [B] Poison prevention - Keep National Poison Control numbers readily accessible; use child resistant containers; dispose expired/unused medications Burn prevention - Install smoke detectors and test bi-annually; carbon monoxide detectors; water heater temperature and fire prevention Injury prevention - Firearm safety; water safety; CPR training 	X	X	X

Recommendations	2-6 years	7-12 years	13-18 years	
Tobacco Use Screening: Establish	X	X	X	
tobacco use and second-hand exposure				
Screening for overweight	Record height, weight and BMI annually			
Cholesterol Screening [A]	Over age 2 if increased risk for genetic			
J	forms of hypercholesterolemia			
Chlamydia Screening (sexually			All sexually	
transmitted infection) (STI) [B]			active women	
			25 years and	
			younger	
Cervical Cancer Screening (Pap Smear)			Beginning at	
[B]			age 21 or	
			within three	
			years after first sexual	
			intercourse,	
			whichever is	
			earlier; every	
			3 years after 3	
			consecutive	
			normal Pap	
			smears over 5	
			years.	
Preconception and Pregnancy		Preventive counseling		
Prevention Counseling		beginning at age 12, or		
		earlier if se	xually active	
Vision Screening [A]	Children 4			
	years old and			
	younger. By			
	age 5, should be performed			
	as part of			
	preschool			
	screening.			
Immunizations	4-6 years	11-12 years	15-18 years	
	,	,	== == , ====	
Consult the Advisory Committee				
on Immunization Practices				
(ACIP) website				
(www.cdc.gov/nip/acip/) for				
most updated immunization				
schedules for routine and high				
risk populations.				
Use combination vaccines to				
minimize the number of				
injections				
Update the Michigan Care Improvement Registry (MCIR)				
Improvement Registry (MCIR)				
DT-D [A]	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Td	<u> </u> 	
DTaP [A]	X	Tdap	<u> </u>	
IPV	X			

Recommendations	2-6 years	7-12 years	13-18 years
MMR (MMRV) [A]	X		
Varicella [A]	X		
Meningococcal		X	
Influenza [B]	X 6 – 59 months, annually		
Human papilloma Virus (females 9 – 26 years)		X 3-dose series	X 3-dose series

Abbreviations: BMI, body mass index; CPR, cardiopulmonary resuscitation; DTaP, diphtheria, tetanus, acellular pertussis; IPV, inactivated poliovirus vaccine; MMR, measles, mumps, rubella; MMRV, measles, mumps, rubella, varicella; Tdap, tetanus-diphtheria-acellular pertussis

Definitions:

Levels of Evidence for the Most Significant Recommendations

- A. Randomized controlled trials
- B. Controlled trials, no randomization
- C. Observational studies
- D. Opinion of expert panel

CLINICAL ALGORITHM(S)

None provided

EVIDENCE SUPPORTING THE RECOMMENDATIONS

TYPE OF EVIDENCE SUPPORTING THE RECOMMENDATIONS

The type of evidence is provided for the most significant recommendations (See "Major Recommendations" field).

This guideline is based on several sources, including: Preventive Services for Children and Adolescents, Institute for Clinical Systems Improvement, 2006 (www.icsi.org).

BENEFITS/HARMS OF IMPLEMENTING THE GUIDELINE RECOMMENDATIONS

POTENTIAL BENEFITS

Through a collaborative approach to developing and implementing common clinical practice guidelines and performance measures for routine preventive services for children and adolescents ages 2 to 18, Michigan health plans will achieve consistent delivery of evidence-based services and better health outcomes. This approach also will augment the practice environment for physicians by reducing the administrative burdens imposed by compliance with diverse health plan quidelines and associated requirements.

POTENTIAL HARMS

Not stated

QUALIFYING STATEMENTS

QUALIFYING STATEMENTS

This guideline lists core management steps. Individual patient considerations and advances in medical science may supersede or modify these recommendations.

IMPLEMENTATION OF THE GUIDELINE

DESCRIPTION OF IMPLEMENTATION STRATEGY

Approved Michigan Quality Improvement Consortium (MQIC) guidelines are disseminated through email, U.S. mail, and websites.

The MQIC project leader prepares approved guidelines for distribution. Portable Document Format (PDF) versions of the guidelines are used for distribution.

The MQIC project leader distributes approved guidelines to MQIC membership via email.

The MQIC project leader submits request to website vendor to post approved guidelines to MQIC website (www.mqic.org).

The MQIC project leader completes a statewide mailing of the comprehensive set of approved guidelines and educational tools annually. The guidelines and tools are distributed in February of each year to physicians in the following medical specialties:

- Family Practice
- General Practice
- Internal Medicine
- Other Specialists for which the guideline is applicable (e.g. endocrinologists, allergists, pediatricians, cardiologists, etc.)

The statewide mailing list is derived from the Blue Cross Blue Shield of Michigan (BCBSM) provider database. Approximately 95% of the state's M.D.'s and 96% of the state's D.O.'s are included in the database.

The MQIC project leader submits request to the National Guideline Clearinghouse (NGC) to post approved guidelines to NGC website (www.quideline.gov).

INSTITUTE OF MEDICINE (IOM) NATIONAL HEALTHCARE QUALITY REPORT CATEGORIES

IOM CARE NEED

Staying Healthy

IOM DOMAIN

Effectiveness Patient-centeredness

IDENTIFYING INFORMATION AND AVAILABILITY

BIBLIOGRAPHIC SOURCE(S)

Michigan Quality Improvement Consortium. Routine preventive services for children and adolescents (ages 2-18). Southfield (MI): Michigan Quality Improvement Consortium; 2007 May. 1 p.

ADAPTATION

This guideline is based on several sources, including: Preventive Services for Children and Adolescents, Institute for Clinical Systems Improvement, 2006 (www.icsi.org).

DATE RELEASED

2007 May

GUIDELINE DEVELOPER(S)

Michigan Quality Improvement Consortium - Professional Association

SOURCE(S) OF FUNDING

Michigan Quality Improvement Consortium

GUIDELINE COMMITTEE

Michigan Quality Improvement Consortium Medical Director's Committee

COMPOSITION OF GROUP THAT AUTHORED THE GUIDELINE

Physician representatives from participating Michigan Quality Improvement Consortium health plans, Michigan State Medical Society, Michigan Osteopathic Association, Michigan Association of Health Plans, Michigan Department of Community Health and Michigan Peer Review Organization

FINANCIAL DISCLOSURES/CONFLICTS OF INTEREST

Standard disclosure is requested from all individuals participating in the Michigan Quality Improvement Consortium (MQIC) guideline development process, including those parties who are solicited for guideline feedback (e.g. health plans,

medical specialty societies). Additionally, members of the MQIC Medical Directors' Committee are asked to disclose all commercial relationships.

GUIDELINE STATUS

This is the current release of the guideline.

GUIDELINE AVAILABILITY

Electronic copies: Available in Portable Document Format (PDF) from the <u>Michigan</u> <u>Quality Improvement Consortium Web site</u>.

AVAILABILITY OF COMPANION DOCUMENTS

None available

PATIENT RESOURCES

None available

NGC STATUS

This NGC summary was completed by ECRI Institute on March 5, 2008. The information was verified by the guideline developer on March 12, 2008.

COPYRIGHT STATEMENT

This NGC summary is based on the original guideline, which may be reproduced with the citation developed by the Michigan Quality Improvement Consortium.

DISCLAIMER

NGC DISCLAIMER

The National Guideline Clearinghouse™ (NGC) does not develop, produce, approve, or endorse the guidelines represented on this site.

All guidelines summarized by NGC and hosted on our site are produced under the auspices of medical specialty societies, relevant professional associations, public or private organizations, other government agencies, health care organizations or plans, and similar entities.

Guidelines represented on the NGC Web site are submitted by guideline developers, and are screened solely to determine that they meet the NGC Inclusion Criteria which may be found at http://www.quideline.gov/about/inclusion.aspx.

NGC, AHRQ, and its contractor ECRI Institute make no warranties concerning the content or clinical efficacy or effectiveness of the clinical practice guidelines and related materials represented on this site. Moreover, the views and opinions of

developers or authors of guidelines represented on this site do not necessarily state or reflect those of NGC, AHRQ, or its contractor ECRI Institute, and inclusion or hosting of guidelines in NGC may not be used for advertising or commercial endorsement purposes.

Readers with questions regarding guideline content are directed to contact the guideline developer.

© 1998-2008 National Guideline Clearinghouse

Date Modified: 9/15/2008

