

I have no disclosures

Overview

- Developmental Milestones
- Screening Process and Tools
- AzAAP Developmental Screening Committee
- Review Arizona Screening Data





AAP Guideline History

- 2006 AAP Policy Statement
 - Discrete ages for testing
 - Valid and reliable screening tools
- National Screening Rates

• 2002: 23%

• 2009: 45%

• 2016: 63%

Council on Children With Disabilities, Section on Developmental Behavioral Pediatrics, Bright Futures Steering Committee, Medical Home Initiatives for Children With Special Needs Project Advisory Committee; Identifying Infants and Young Children With Developmental Disorders in the Medical Home: An Algorithm for Developmental Surveillance and Screening. *Pediatrics* July 2006; 118 (1): 405–420.

Surveillance = Milestones

- CDC and AAP new guidelines
- Published February 2022
- Mixed reception



Handout in packet

Jennifer M. Zubler, et al; Evidence-Informed Milestones for Developmental Surveillance Tools. *Pediatrics* March 2022; 149 (3): e2021052138. 10.1542/peds.2021-052138

CDC's Percentile-Based Guidelines

- In 2019, a team of subject matter experts began examining CDC milestones. (*Pre-pandemic*)
- Previous CDC milestone guidelines were based on 50th percentile
- 50th percentile was thought to be limiting referrals
- Milestone guidelines were revised and based on
 75th percentile measurements



Process

TABLE 3Social-Emotional Milestones With Supporting Normative Data, Evaluation Tools, and Published Clinical Opinion References

Social-Emotional Milestones	Age	CDC or New	Source		
			Normative Data ^a	Developmental Screening and Evaluation Tools	Published Clinical Opinion ^C
Calms down when spoken to or picked up ^d	2 mo	New	Ertem et al (35)	_	ASHA (11), Bright Futures (36), Dosman et al (8), Sharp et al (37)
Looks at your face	2 mo	CDC	Ertem et al (35), Sheldrick and Perrin (38)	_	Bright Futures (36), Dosman et al (8), Scharf et al (18)
Seems happy to see you when you walk up to her	2 mo	New	Ertem et al (35), Sheldrick and Perrin (38), Thalagala (39)	_	_
Smiles when you talk to or smile at her	2 mo	CDC	Bhave et al (40), Ertem et al (35), Lejarraga et al (41), Thalagala (39)	ASQ-3 (22), PEDS-DM (25)	ASHA (11)
Smiles on his own to get your attention	4 mo	CDC	Ertem et al (35)	ASQ-3, PEDS-DM	Bright Futures (36)
Chuckles (not yet a full laugh) when you try to make her laugh	4 mo	New	Accardo and Capute (30), Bhave et al (40), Ertem et al (35), Sheldrick and Perrin (38)	ASQ-3, PEDS-DM	ASHA (11), Bellman et al (42), Bright Futures (36)

Process

TABLE 4Language and Communication Milestones With Supporting Normative Data, Evaluation Tools, and Published Clinical Opinion References

Language/Communication Milestones	Age	CDC or New	Source		
			Normative Data ^a	Developmental Screening and Evaluation Tools b	Published Clinical Opinion ^C
Makes sounds other than crying	2 mo	CDC	Dosman et al (8), ^d Sheldrick and Perrin (38)	ASQ-3 (22), PEDS-DM (25)	Blackwell and Baker (53), Bright Futures (36), Gerber et al (20), Scharf et al (18)
Reacts to loud sounds ^e	2 mo	New		_	Accardo and Capute (30), ASHA (11), Bellman et al (42), Bright Futures (36)
Makes sounds like "oooo" and "aahh" (cooing)	4 mo	CDC	Accardo and Capute (30), Ertem et al (35)	ASQ-3	ASHA (11), Bright Futures (36), Dosman et al (8), Gerber et al (20), Scharf et al (18)
Makes sounds back when you talk to him	4 mo	New	Ertem et al (35), Den Ouden et al (54), Kumar et al (44)	ASQ-3	Bellman et al (42)
Turns head toward the sound of your voice	4 mo	CDC	Accardo and Capute (30), Bhave et al (40), Den Ouden et al (54), Sheldrick and Perrin (38)	_	Bellman et al (42), Dosman et al (8), Gerber et al (20), Johnson and Blasco (15), Scharf et al (18)

Overview of Changes

- Milestone guidelines were added for 15 and 30 months of age
- 94 milestones remained from original CDC guidelines
- 64 milestones were added
- 57 milestones were removed
- Average number of milestones per age group decreased from 22 to 13

https://publications.aap.org/pediatrics/article/149/3/e2021052138/184748/Evidence-Informed-Milestones-for-Developmental

2 Month Checklist

PREVIOUS

Social/Emotional Begins to smile at people Can briefly calm himself (may bring hands to mouth and suck on hand) Tries to look at parent Language/Communication Coos, makes gurgling sounds Turns head toward sounds Cognitive (learning, thinking, problem-solving) Pays attention to faces Begins to follow things with eyes and recognize people at a distance □ Begins to act bored (cries, fussy) if activity doesn't change Movement/Physical Development Can hold head up and begins to push up when lying on tummy Makes smoother movements with arms and legs

UPDATED

Social/	Emotional	Milestone
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- Calms down when spoken to or picked up
- Looks at your face
- Seems happy to see you when you walk up to her
- Smiles when you talk to or smile at her

Language/Communication Milestones

- Makes sounds other than crying
- Reacts to loud sounds

Cognitive Milestones (learning, thinking, problem-solving)

- Watches you as you move
- Looks at a toy for several seconds

Movement/Physical Development Milestones

- Holds head up when on tummy
- Moves both arms and both legs
- Opens hands briefly

4 Month Checklist

PREVIOUS

Social/Emotional Smiles spontaneously, especially at people ☐ Likes to play with people and might cry when playing stops Copies some movements and facial expressions, like smiling or frowning Language/Communication Begins to babble Babbles with expression and copies sounds he hears Cries in different ways to show hunger, pain, or being tired Cognitive (learning, thinking, problem-solving) □ Lets you know if she is happy or sad Responds to affection Reaches for toy with one hand Uses hands and eyes together, such as seeing a toy and reaching for it ☐ Follows moving things with eyes from side to side Watches faces closely Recognizes familiar people and things at a distance Movement/Physical Development Holds head steady, unsupported ☐ Pushes down on legs when feet are on a hard surface ■ May be able to roll over from tummy to back ☐ Can hold a toy and shake it and swing at dangling toys Brings hands to mouth ■ When lying on stomach, pushes up to elbows

UPDATED

Social/Emotional Milestones

- Smiles on his own to get your attention
 Chuckles (not yet a full laugh) when you try to make her laugh
 - Looks at you, moves, or makes sounds to get or keep your attention

Language/Communication Milestones

- Makes sounds like "oooo", "aahh" (cooing)
 - Makes sounds back when you talk to him
 - Turns head towards the sound of your voice

Cognitive Milestones (learning, thinking, problem-solving)

- If hungry, opens mouth when she sees breast or bottle
- Looks at his hands with interest

Movement/Physical Development Milestones

- Holds head steady without support when you are holding her
- Holds a toy when you put it in his hand
- Uses her arm to swing at toys
- Brings hands to mouth
- Pushes up onto elbows/forearms when on tummy

6 Month Checklist

PREVIOUS

Social/Emotional

- □ Knows familiar faces and begins to know if someone is a stranger
 □ Likes to play with others, especially parents
 □ Responds to other people's emotions and often seems happy
 □ Likes to look at self in a mirror
 - Language/Communication
 - ☐ Responds to sounds by making sounds
 - Strings vowels together when babbling ("ah," "eh," "oh") and likes taking turns with parent while making sounds
- Responds to own name
 - Makes sounds to show joy and displeasure
 - Degins to say consonant sounds (jabbering with "m," "b")

Cognitive (learning, thinking, problem-solving)

- Looks around at things nearby
- Brings things to mouth
- Shows curiosity about things and tries to get things that are out of reach
- Begins to pass things from one hand to the other

Movement/Physical Development

Rolls over in both directions (front to back, back to front)

Begins to sit without support

When standing, supports weight on legs and might bounce

Rocks back and forth, sometimes crawling backward before moving forward

UPDATED

Social/Emotional Milestones

- Knows familiar people
- Likes to look at himself in a mirror
- Laughs

Language/Communication Milestones

- □ Takes turns making sounds with you
- □ Blows "raspberries" (sticks tongue out and blows)
- Makes squealing noises

Cognitive Milestones (learning, thinking, problem-solving)

- Puts things in her mouth to explore them
- Reaches to grab a toy he wants
- Closes lips to show she doesn't want more food

Movement/Physical Development Milestones

- Rolls from tummy to back
 - Pushes up with straight arms when on tummy
 - Leans on hands to support himself when sitting

Handouts

https://CDC
 Handouts.cdc.gov/ncbddd/actearly/

Checklists

- 2 months
- 4 months
- 6 months
- 9 months
- <u>1 year</u>
- 15 months
- <u>18 months</u>
- <u>2 years</u>
- 30 months
- <u>3 years</u>
- 4 years
- <u>5 years</u>

Checklists with Tips in All Available Languages

- <u>Spanish</u> [5.7 MB, 24 Pages, 508]
- <u>Arabic</u> [6 MB, 20 Pages, 508]
- Brazilian Portuguese 🔼 [10 MB, 20 Pages, 508]
- <u>Farsi</u> [848 KB, 24 Pages, 508]
- <u>French</u> [6 MB, 24 Pages, 508]
- <u>Hindi</u> [1.9 MB KB, 24 Pages, 508]
- <u>Simplified Chinese</u> [7 MB, 24 Pages, Print Only]
- <u>Somali</u> [1.65 MB, 24 pages, 508]
- <u>Vietnamese</u> [4 MB, 24 Pages, Print Only]

CDC Handouts

Seu bebê aos 2 meses

Nome do bebê

Idade do bebê Data de hoie

Os marcos do desenvolvimento são importantes! A maneira como seu bebê brinca, aprende, fala, age e se move oferece pistas importantes sobre seu desenvolvimento. Verifique os marcos do desenvolvimento que seu bebê atingiu aos 2 meses. Leve isso com você e converse com o médico do seu bebê em todas as consultas pediátricas sobre os marcos do desenvolvimento que seu bebê alcançou e o que esperar a seguir.

O que a maioria dos bebês faz nessa idade:

Marcos Sociais/Emocionais

- Acalma-se quando falam com ele ou quando o pegam no colo
- ☐ Olha para o seu rosto
- □ Parece feliz em ver você quando caminha até ele
- ☐ Sorri quando você fala ou sorri para ele

Marcos de Linguagem/Comunicação

- Faz outros sons além de chorar
- Reage a sons altos

Marcos Cognitivos

(aprender, pensar, resolver problemas)

- ☐ Observa conforme você se move
- Olha para um brinquedo por vários segundos

Marcos de Movimento/ Desenvolvimento Físico

- Mantém a cabeça erguida quando está de bruços
- Move os dois braços e as duas pernas
- Abre as mãos brevemente

Outras coisas importantes para compartilhar com o médico...

- Quais são algumas das coisas que você e seu bebê fazem juntos?
- Quais são algumas das coisas que seu bebê gosta de fazer?
- Há algo que seu bebê faz ou deixa de fazer que o preocupa?
- Seu bebê perdeu alguma habilidade que já teve?
- Seu bebê tem alguma necessidade especial de saúde ou nasceu prematuro?

Você é quem conhece melhor o seu bebê. Não espere. Se o seu bebê não está atingindo um ou mais marcos do desenvolvimento, perdeu habilidades que já teve, ou você tem outras preocupações, aja cedo. Converse com o médico do seu bebê, compartilhe suas preocupações e pergunte sobre a triagem do desenvolvimento. Se você ou o médico ainda estiverem preocupados:

- 1. Peça um encaminhamento para um especialista que possa avaliar mais seu bebê; e
- Ligue para o programa de intervenção precoce do seu estado ou território para descobrir se seu bebê pode obter serviços de ajuda. Saiba mais e encontre o número em cdc.gov/FindEl.

Para saber mais sobre como ajudar seu bebê, acesse cdc.gov/Concerned

Centers for Disease Control App



CDC's Milestone Tracker App

- Learn more about the *Milestone Tracker* app now available in <u>English</u> and <u>Spanish</u>
- Promote the *Milestone Tracker* app with a promotional toolkit <u>English</u> [3 MB, 17 Pages, 508], and <u>Spanish</u> [3 MB, 17 Pages, 508]
- <u>Download the Milestone Tracker app from the App Store</u>
- Download the Milestone Tracker app from Google Play

AAP Screening

- Screen all children for developmental delays
- Early identification improves outcomes
- Less than a quarter of children with developmental delays receive early intervention
- Milestone checklists engage parents and providers in discussing concerns



Jennifer M. Zubler, et al; Evidence-Informed Milestones for Developmental Surveillance Tools. *Pediatrics* March 2022; 149 (3): e2021052138. 10.1542/peds.2021-052138

Developmental Screening

- Specific ages (9, 18, 24 months)
- Validated tools
- Populations (dual-language learners, Native populations, children with disabilities)
- Screening Tool Information
- Resource: DHHS Office of Planning Research and Evaluation

 https://eclkc.ohs.acf.hhs.gov/childscreeningassessment/article/understandingchoosing-assessments-developmentalscreeners-young-children-ages-3-5profiles-selected

Sensitivity and Specificity: **Ages and Stages**

- Sensitivity: How accurately does the developmental screener correctly identify children at risk for developmental delays?
- 83-86%
- Specificity. How accurately does the developmental screener correctly identify children who are not at risk for developmental delays?

• 86-92%

Sensitivity and Specificity: PEDS

 Sensitivity: How accurately does the developmental screener correctly identify children at risk for developmental delays?

• 83-86%

 Specificity. How accurately does the developmental screener correctly identify children who are not at risk for developmental delays?

• 86-92%

AzAAP Developmental Screening Team

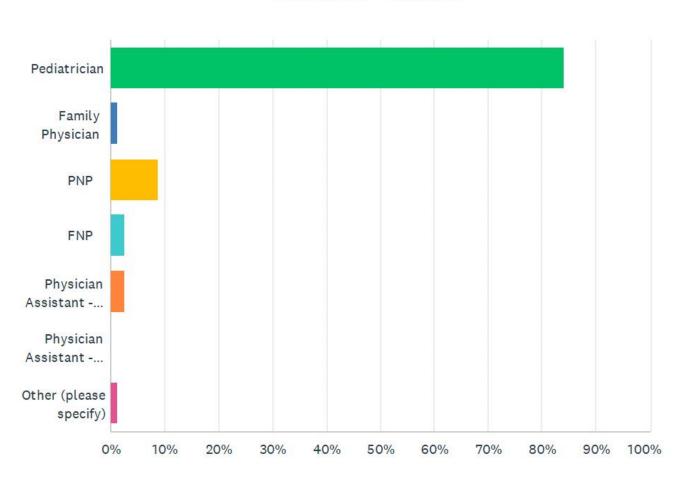
- Catherine Riley MD (lead)
- Sydney Rice, MD
- Dawn Sorenson, MD
- Steven Spiess, MD
- Amy McAuley, MD
- Melanie Martin Senior Manager of Early Brain and Child Development Program



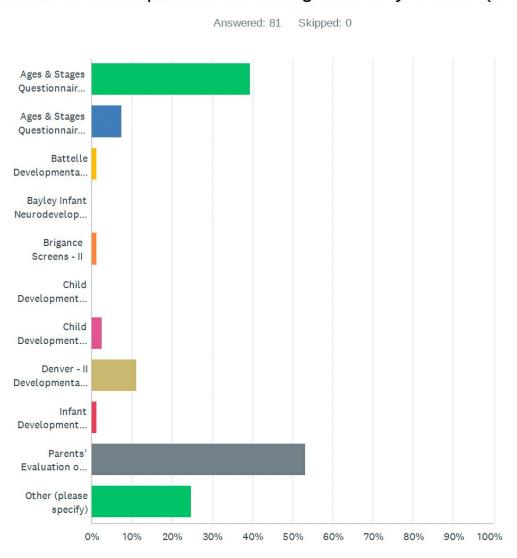
To the many of you who fill out countless surveys, particularly the 81 who filled out this one.

Q1 Are you a:

Answered: 81 Skipped: 0

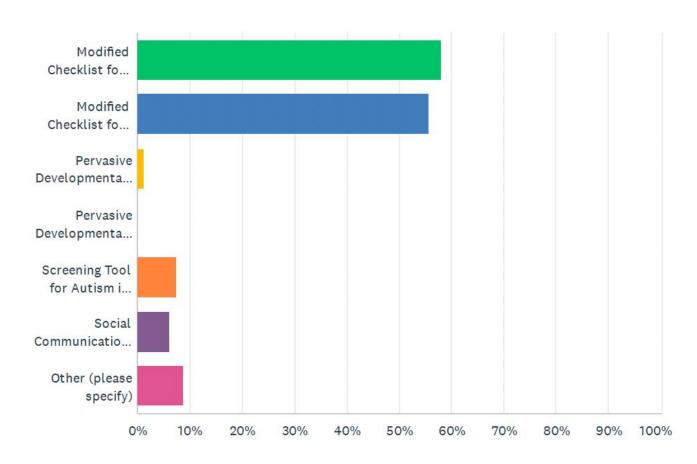


Q2 What standardized developmental screening tools do you use? (Check all that apply)

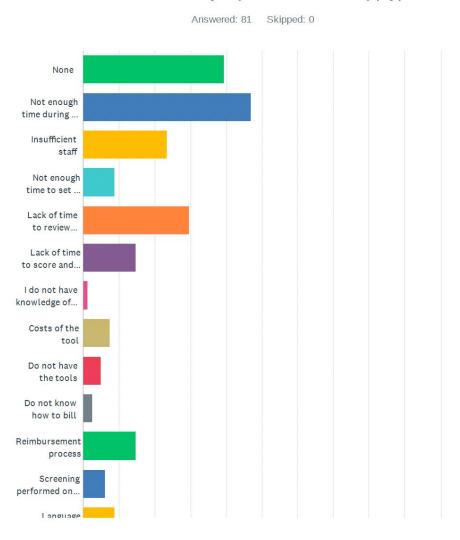


Q4 What standardized autism screening tools do you use? (Check all that apply)



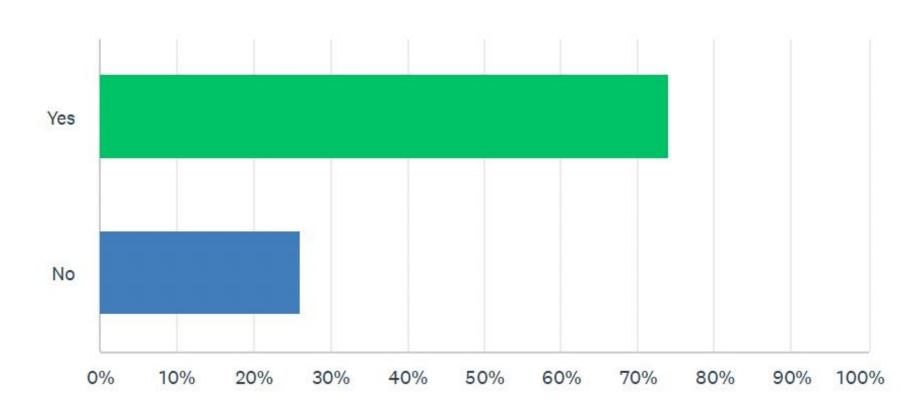


Q6 Which factors do you feel prevent you from performing routine screening using a standardized tool consistently? (Check all that apply)



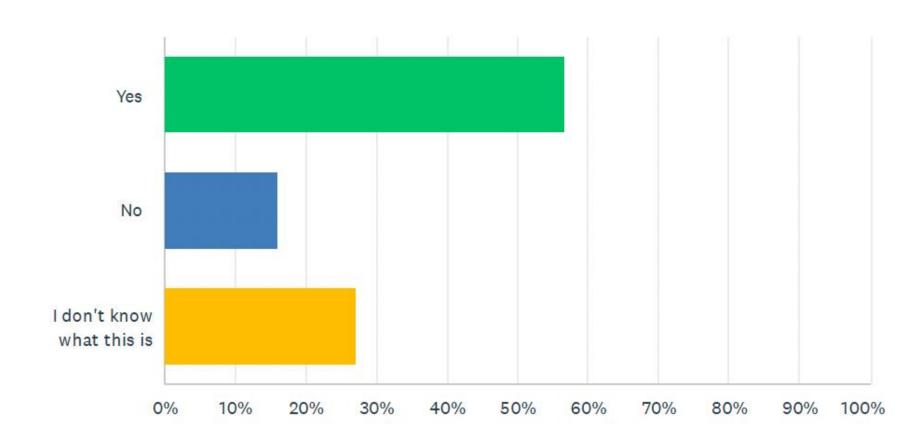
Q7 Do you bill for developmental/autism screening?





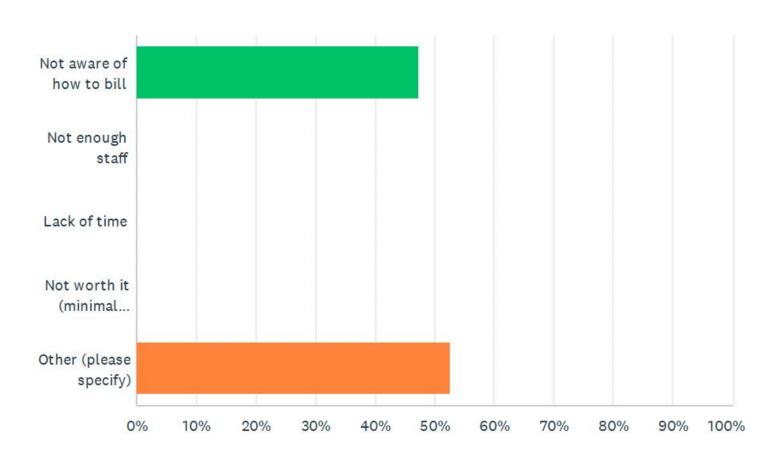
Q8 Do you use the EP modifier after billing (96110) for screenings?



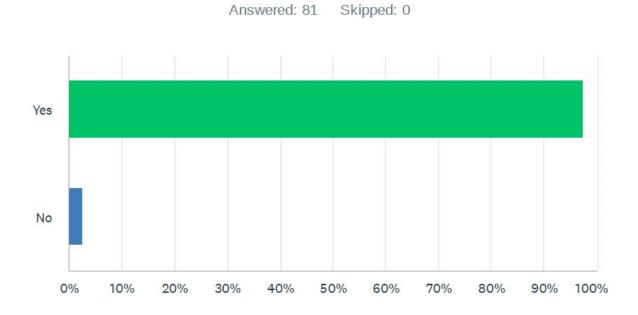


Q9 Why do you not bill (use 96110) for screening? (Check all that apply)

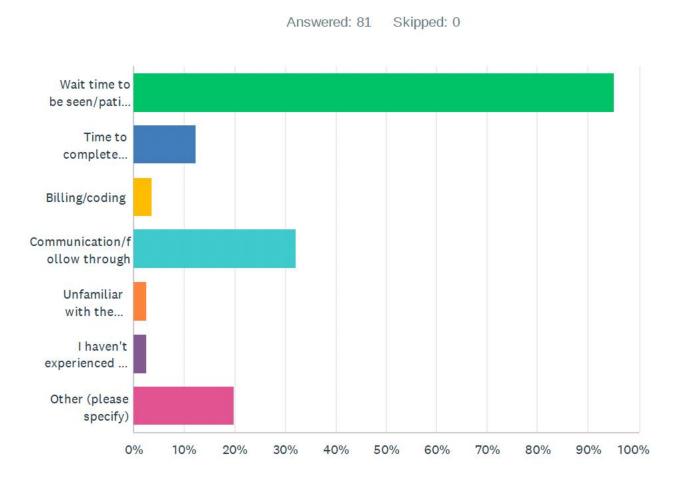




Q20 When making referrals for services once concerns have been identified, have you ever referred a patient to a developmental pediatrician?



Q21 What, if any, challenges have you encountered when making referrals to a developmental pediatrician? (Select all that apply)



Summary

- Surveillance: New CDC Milestones
 - 75th percentile (don't wait to refer)
- Screening:
 - Billing
- Evaluation
 - Early Access to Care
 - DBP Fellowship in Tucson
 - UA Nurse Practitioner Autism Certification

