

Pediatric Eating Assessment Tool (PediEAT)

<u>Intended Use</u>: The PediEAT is intended to assess observable symptoms of problematic feeding in children between the ages of 6 months and 7 years old who are being offered some solid foods. The PediEAT is intended to be completed by a caregiver that is familiar with the child's typical eating. This is most often a parent, but may be another primary care provider.

<u>Disclosure</u>: The PediEAT does not replace a healthcare provider's clinical assessment. The PediEAT is also not intended to provide a diagnosis, but instead may provide the healthcare provider with an objective assessment of the child's eating in order to facilitate diagnosis and treatment decisions.

<u>Terms of Use</u>: Please give appropriate credit to the authors when presenting, publishing, or otherwise referencing the Pediatric Eating Assessment Tool (PediEAT). You may use the PediEAT for clinical practice or research, but you may not alter, distribute, share, or adapt the PediEAT for electronic medical charting or other digital use without permission from the authors. The PediEAT is protected by U.S. copyright law.

Referencing Information:

- Thoyre, S., Pados, B., Park, J., Estrem, H., Hodges, E., McComish, C., Van Riper, M., and Murdoch, K.
 (2014). Development and content validation of the Pediatric Eating Assessment Tool (Pedi-EAT).
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- Pados, B.F., Thoyre, S.M., & Park, J. (2018). Age-based norm-reference values for the Pediatric Eating Assessment Tool. *Pediatric Research*. Online ahead of print. doi: 10.1038/s41390-018-0067-z

** Please check the Feeding Flock website for updates to references: <u>www.feedingflock.com</u>

Note: The PediEAT is not in any way associated with the PEDI-EAT-10 by Soyer and colleagues (2017).

Feeding

PEDIATRIC EATING ASSESSMENT TOOL (PediEAT)

Directions: We are interested in learning about the eating behaviors of your child. The items below may not apply to every child. When filling this out, think about what is typical for your child <u>at this time</u>.

PHYSIOLOGIC SYMPTOMS

	0	1	2	3	4	5	
My child	Never	Almost Never	Sometimes	Often	Almost Always	Always	Score
1. gets watery eyes when eating							
2. gets red color around eyes or face when eating							
3. coughs during or after eating							
sounds gurgly or like they need to cough or clear their throat during or after eating							
sounds different during or after a meal (for example, voice becomes hoarse, 5. high-pitched, or quiet)							
6. chokes or coughs on water or other thin liquids							
7. moves head down toward chest when swallowing							
8. has food or liquid come out of nose when eating							
9. gets pale or blue color around his/her lips during meals							
10. breathes faster or harder when eating							
11. needs to take a break during the meal to rest or catch their breath							
12. gets tired from eating and is not able to finish							
13. sweats/gets clammy during meals							
14. tilts head back while eating							
15. burps more than usual while eating							
16. throws up during mealtime							
17. throws up between meals (from 30 minutes after the last meal until the next meal)							
18. arches back during or after meals							

	0	1	2	3	4	5	
My child	Never	Almost Never	Sometimes	Often	Almost Always	Always	Score
19. gags when it is time to eat (for example, when they see food or when placed in high chair)							
20. gags with smooth foods like pudding							
21. gags with textured food like coarse oatmeal							
gags, coughs, or vomits when brushing teeth (if your child does not have teeth, 22. select Never. If your child will not allow you to brush his/her teeth, select Always)							
23. gets a bloated tummy after eating							
24. turns red in face, may cry with stooling							
25. has gas							
26. drools when eating							
27. has a hard time eating due to stuffy nose							
			Physiol	ogic Sympt	toms Subsc	ale Score	
If you would like to explain any of your responses, please do so here:							

PROBLEMATIC MEALTIME BEHAVIORS

	0	1	2	3	4	5	
My child	Never	Almost Never	Sometimes	Often	Almost Always	Always	Score
28. avoids eating by playing or talking							
29. has to be told to start eating							
30. has to be reminded to keep eating							
31. won't eat at meals, but wants food later							
32. stops eating after a few bites							
33. refuses to eat							
shows more stress during meals than during non-meal times (whines, cries, 34. gets angry, tantrums)							
35. likes something one day and not the next							

	0	1	2	3	4	5	
My child	Never	Almost Never	Sometimes	Often	Almost Always	Always	Score
36. insists on food being offered in a certain way (such as, how food is on the plate or what dish or spoon is used, or where they sit)							
37. insists on being fed by the same person(s)							
38. becomes upset by the smell of food							
39. throws food or pushes food away							
40. prefers to drink instead of eat							
41. prefers crunchy foods							
42. eats better when entertained							
43. takes more than 30 minutes to eat							
44. needs mealtime to be calm							
45. wants the same food for more than two weeks in a row							
Items below are scored according to the numbers at right	5	4	3	2	1	0	
	Never	Almost Never	Sometimes	Often	Almost Always	Always	
46. likes to eat							
47. eats a variety of foods (fruits, vegetables, proteins, etc.)							
48. is willing to stay seated during mealtime							
49. opens their mouth when food is offered							
50. is willing to touch food with their hands							
		Proble	matic Mealt	ime Behav	viors Subsca	ale Score	
If you would like to explain any of your answers, please do so here:							

SELECTIVE / RESTRICTIVE EATING

	5	4	3	2	1	0	
My child	Never	Almost Never	Sometimes	Often	Almost Always	Always	Score
51. will eat mixed texture foods							
52. will eat food warmer than room temperature							
53. is willing to feed self (if younger in age, holds cup, feeds self crackers)							
54. keeps food in mouth when eating (food means non-liquids)							
55. keeps liquids in mouth when drinking							
56. keeps their tongue inside mouth during eating							
57. acts hungry before meals							
	5	4	3	2	1	0	
For the following items, if your child is younger than 15 months and is not offered these foods, select Always. If your child is over 15 months and not offered these foods or refuses to eat these foods, select Never.	Never	Almost Never	Sometimes	Often	Almost Always	Always	Score
58. will eat foods that need to be chewed							
59. will eat textured food like coarse oatmeal							
60. will eat frozen food, like ice cream							
61. chews their food enough							
62. moves food in their mouth when chewing without help							
Items below are scored according to the numbers at right	0	1	2	3	4	5	
	Never	Almost Never	Sometimes	Often	Almost Always	Always	Score
63. sniffs food or objects							
64. spits food out							
65. eats too fast							
Selective / Restrictive Eating Subscale Score							
If you would like to explain any of your responses, please do so here:							

ORAL PROCESSING	0	1	2	3	4	5	
My child	Never	Almost Never	Sometimes	Often	Almost Always	Always	Score
66. stores food in their cheek or roof of mouth							
67. gets food stuck in their cheek or roof of mouth							
68. prefers smooth foods like yogurt							
69. puts too much food in mouth at one time							
70. puts fingers in mouth to move food							
71. prefers strong flavors							
72. bites down on the spoon or fork and does not release it easily							
 73. grinds teeth when awake (if your child does not have teeth, please select Never. 							
74. chews on toys, clothes, or other objects							
Items below are scored according to the numbers at right	0	1	2	3	4	5	
For the following items, if your child is younger than 15 months <u>and</u> is not offered chewable foods, select Never. If your child is over 15 months and not offered these foods or refuses to eat these foods, select Always.	Never	Almost Never	Sometimes	Often	Almost Always	Always	Score
75. has to be reminded to chew food							
76. sucks on food to soften or moisten it, rather than chewing it							
77. chews food but doesn't swallow it							
78. chews a bite of food for a long time (~30 seconds or longer)							
	Oral Processing Subscale Score						
If you would like to explain any of your responses, please do so here:							



PEDIATRIC EATING ASSESSMENT TOOL (PediEAT)

SCORING INSTRUCTIONS

- Scores are assigned to PediEAT items with lower scores indicating fewer symptoms and higher scores indicating more symptoms of problematic feeding. There are numbers above the items indicating the score that each response would receive. Note that the scores may change between the subscales. For example, the Physiologic Symptoms subscale is scored with Never = 0 and Always = 5, while the Selective / Restrictive Eating subscale is scored with Never = 5 and Always = 0. Also note that within the Problematic Mealtime Behaviors subscale and the Selective / Restrictive Eating subscale, there are a subset of items at the bottom that are scored differently than the other items in that subscale. You may use the right column on the PediEAT to record the score for each item.
- 2. There are some items that may not apply to a child based on the child's age. For example, there are specific instructions to parents above the items pertaining to chewing. If a child is less than 15 months old and not being offered chewable foods, they are to score it as not problematic. If a child is older than 15 months and not yet being offered chewable foods or refuses to eat the types of foods specified, the parent should answer in a way that indicates that is problematic.
- 3. Add the scores for each item within each area. A box is provided at the end of each area to record the total score for that area. Transfer each area score total to the table below.
- 4. Use the age-specific reference values on the subsequent pages to determine the level of concern associated with the score the child received. Please note that corrected age should be used when choosing the age-specific reference values if the child is less than 2 years old <u>and</u> he/she was born at less than 37 weeks post-menstrual age (i.e., the child was born more than 3 weeks before their due date).

	Score	Level o	f Conce	r n (circle)
Physiologic Symptoms		No Concern	Concern	High
			Concern	Concern High
Problematic Mealtime Behaviors		Concern	Concern	Concern
Coloctive / Destrictive Fating		No	Concern	High
Selective / Restrictive Eating		Concern	concern	Concern
		No	Concern	High
Oral Processing	Oral Processing		concern	Concern
Total Score		No	Concern	High
		Concern	concern	Concern

Notes:



Pediatric Eating Assessment Tool (PediEAT) Reference Values for Infants 6 - 9 months old

The following reference values are for infants between 6 months 0 days and 9 months 0 days old. If the child was born prior to 37 weeks post-menstrual age, please use the child's corrected age when determining which reference values to use.

	< 90th %	90th - 95th %	> 95th %
	No Concern	Concern	High Concern
Physiologic Symptoms	< 27	27 - 31	32 - 135
Problematic Mealtime Behaviors	< 30	30 - 36	37 - 115
Selective / Restrictive Eating	< 26	26 - 27	28 - 75
Oral Processing	< 37	37 - 42	43 - 65
Total Score	< 101	101 - 116	117 - 390



Pediatric Eating Assessment Tool (PediEAT) Reference Values for Infants 9 - 12 months old

The following reference values are for infants between 9 months 1 day and 12 months 0 days old. If the child was born prior to 37 weeks post-menstrual age, please use the child's corrected age when determining which reference values to use.

	< 90th %	90th - 95th %	> 95th %
	No Concern	Concern	High Concern
Physiologic Symptoms	< 24	24 - 31	32 - 135
Problematic Mealtime Behaviors	< 32	32 - 38	39 - 115
Selective / Restrictive Eating	< 27	27 - 31	32 - 75
Oral Processing	< 32	32 - 37	38 -65
Total Score	< 102	102 -124	125 - 390



Pediatric Eating Assessment Tool (PediEAT) Reference Values for Children 12 - 15 months old

The following reference values are for children between 12 months 1 day and 15 months 0 days old. If the child was born prior to 37 weeks post-menstrual age, please use the child's corrected age when determining which reference values to use.

	< 90th %	90th - 95th %	> 95th %
	No Concern	Concern	High Concern
Physiologic Symptoms	< 29	29 - 34	35 - 135
Problematic Mealtime Behaviors	< 38	38 - 46	47 - 115
Selective / Restrictive Eating	< 28	28 -31	32 - 75
Oral Processing	< 31	31 - 35	36 -65
Total Score	< 107	107 - 125	126 - 390



Pediatric Eating Assessment Tool (PediEAT) Reference Values for Children 15 - 18 months old

The following reference values are for children between 15 months 1 day and 18 months 0 days old. If the child was born prior to 37 weeks post-menstrual age, please use the child's corrected age when determining which reference values to use.

	< 90th %	90th - 95th %	> 95th %
	No Concern	Concern	High Concern
Physiologic Symptoms	< 17	17 - 20	21 - 135
Problematic Mealtime Behaviors	< 38	38 - 44	45 - 115
Selective / Restrictive Eating	< 26	26 -28	29 - 75
Oral Processing	< 29	29 - 32	33 -65
Total Score	< 98	98 - 110	111 - 390



Pediatric Eating Assessment Tool (PediEAT) Reference Values for Children 18 - 24 months old

The following reference values are for children between 18 months 1 day and 24 months 0 days old. If the child was born prior to 37 weeks post-menstrual age, please use the child's corrected age when determining which reference values to use.

	< 90th %	90th - 95th %	> 95th %
	No Concern	Concern	High Concern
Physiologic Symptoms	< 16	16 - 22	23 - 135
Problematic Mealtime Behaviors	< 43	43 - 48	49 - 115
Selective / Restrictive Eating	< 22	22 -27	28 - 75
Oral Processing	< 24	24 - 30	31 -65
Total Score	< 97	97 - 107	108 - 390



Pediatric Eating Assessment Tool (PediEAT) Reference Values for Children 2 - 2.5 years old

The following reference values are for children between 2 years 1 day and 2.5 years 0 days old. If the child was born prior to 37 weeks post-menstrual age, please use the child's corrected age when determining which reference values to use.

	< 90th %	90th - 95th %	> 95th %
	No Concern	Concern	High Concern
Physiologic Symptoms	< 18	18 - 21	22 - 135
Problematic Mealtime Behaviors	< 47	47 - 48	49 - 115
Selective / Restrictive Eating	< 23	23 -28	29 - 75
Oral Processing	< 27	27 - 33	34 -65
Total Score	< 106	106 - 120	121 - 390



Pediatric Eating Assessment Tool (PediEAT) Reference Values for Children 2.5 - 3 years old

The following reference values are for children between 2.5 years 1 day and 3 years 0 days old.

	< 90th %	90th - 95th %	> 95th %
	No Concern	Concern	High Concern
Physiologic Symptoms	< 15	15 - 22	23 - 135
Problematic Mealtime Behaviors	< 54	54 - 60	61 - 115
Selective / Restrictive Eating	< 21	21 -25	26 - 75
Oral Processing	< 26	26 - 29	30 -65
Total Score	< 109	109 - 119	120 - 390



Pediatric Eating Assessment Tool (PediEAT) Reference Values for Children 3 - 4 years old

The following reference values are for children between 3 years 1 day and 4 years 0 days old.

	< 90th %	90th - 95th %	> 95th %
	No Concern	Concern	High Concern
Physiologic Symptoms	< 16	16 - 19	20 - 135
Problematic Mealtime Behaviors	< 51	51 - 55	56 - 115
Selective / Restrictive Eating	< 20	20 -22	23 - 75
Oral Processing	< 27	27 - 29	30 -65
Total Score	< 106	106 - 112	113 - 390



Pediatric Eating Assessment Tool (PediEAT) Reference Values for Children 4 - 5 years old

The following reference values are for children between 4 years 1 day and 5 years 0 days old.

	< 90th %	90th - 95th %	> 95th %
	No Concern	Concern	High Concern
Physiologic Symptoms	< 16	16 - 19	20 - 135
Problematic Mealtime Behaviors	< 51	51 - 57	58 - 115
Selective / Restrictive Eating	< 19	19 -21	22 - 75
Oral Processing	< 24	24 - 27	28 -65
Total Score	< 102	102 - 114	115 - 390



Pediatric Eating Assessment Tool (PediEAT) Reference Values for Children 5 - 6 years old

The following reference values are for children between 5 years 1 day and 6 years 0 days old.

	< 90th %	90th - 95th %	> 95th %
	No Concern	Concern	High Concern
Physiologic Symptoms	< 14	14 - 19	20 - 135
Problematic Mealtime Behaviors	< 51	51 - 54	55 - 115
Selective / Restrictive Eating	< 16	16 -22	23 - 75
Oral Processing	< 22	22 - 26	27 -65
Total Score	< 96	96 - 109	110 - 390



Pediatric Eating Assessment Tool (PediEAT) Reference Values for Children 6 - 7 years old

The following reference values are for children between 6 years 1 day and 7 years 0 days old.

	< 90th %	90th - 95th %	> 95th %
	No Concern	Concern	High Concern
Physiologic Symptoms	< 14	14 - 18	19 - 135
Problematic Mealtime Behaviors	< 42	42 - 47	48 - 115
Selective / Restrictive Eating	< 19	19 -20	21 - 75
Oral Processing	< 23	23 - 27	28 -65
Total Score	< 82	82 - 99	100 - 390