

GMFM Score Interpretation

Patient's name: _____ Date of birth: _____
 Assessment date: _____ Evaluator's name: _____
 Testing condition (e.g., room, clothing, time, others present): _____

The **GMFM** is a standardized observational instrument designed and validated to measure change in gross motor function over time in children with cerebral palsy. The scoring key is meant to be a general guideline. However, most of the items have specific descriptors for each score. The guidelines contained in the manual must be used for scoring each item.

Scoring key

0	Does not initiate
1	Initiates
2	Partially completes
3	Completes
NT	Not tested [used for the GMAE-2 scoring*]

**It is important to differentiate a true score of "0" (child does not initiate) from an item that is Not Tested (NT) if you are interested in using the GMFM-66 Ability Estimator (GMAE) Software.*

Dimension A: Lying & rolling	Scoring				NT
	0	1	2	3	
1. SUP, HEAD IN MIDLINE: Turns head with extremities symmetrical					
2. SUP: Brings hands to midline, fingers one with the other					
3. SUP: Lifts head 45°					
4. SUP: Flexes R hip & knee through full range					
5. SUP: Flexes L hip & knee through full range					
6. SUP: Reaches out with R arm, hand crosses midline toward toy					
7. SUP: Reaches out with L arm, hand crosses midline toward toy					
8. SUP: Rolls to PR over R side					
9. SUP: Rolls to PR over L side					
10. PR: Lifts head upright					
11. PR on forearms: Lifts head upright, elbows extended, chest raised					
12. PR on forearms: Weight on R forearm, fully extends opposite arm forward					
13. PR on forearms: Weight on L forearm, fully extends opposite arm forward					
14. PR: Rolls to SUP over R side					
15. PR: Rolls to SUP over L side					
16. PR: Pivots to R 90° using extremities					
17. PR: Pivots to L 90° using extremities					
Total of dimension A					

Dimension B: Sitting	Scoring				NT
	0	1	2	3	
18. SUP, hands grasped by examiner: Pulls self to sitting with head control					
19. SUP: Rolls to R side, attains sitting					
20. SUP: Rolls to L side, attains sitting					
21. SIT on mat, supported at thorax by therapist: Lifts head upright, maintains 3 seconds					
22. SIT on mat, supported at thorax by therapist: Lifts head midline, maintains 10 seconds					
23. SIT on mat, arm(s) propping: Maintains, 5 seconds					
24. SIT on mat: Maintains, arms free, 3 seconds					
25. SIT on mat with small toy in front: Leans forward, touches toy, re-erects without arm propping					
26. SIT on mat: Touches toy placed 45° behind R side, returns to start					
27. SIT on mat: Touches toy placed 45° behind L side, returns to start					
28. SIT on R side: Maintains, arms free, 5 seconds					
29. SIT on L side: Maintains, arms free, 5 seconds					
30. SIT on mat: Lowers to PR with control					
31. SIT on mat with feet in front: Attains 4 point over R side					
32. SIT on mat with feet in front: Attains 4 point over L side					
33. SIT on mat: Pivots 90°, without arms assisting					
34. SIT on bench: Maintains, arms and feet free, 10 seconds					
35. STD: Attains sit on small bench					
36. On the floor: Attains sit on small bench					
37. On the floor: Attains sit on large bench					
Total of dimension B					

Dimension C: Crawling & kneeling	Scoring				NT
	0	1	2	3	
38. PR: Creeps forward 1.8 m (6')					
39. 4 POINT: Maintains, weight on hands and knees, 10 seconds					
40. 4 POINT: Attains SIT, arms free					
41. PR: Attains 4 POINT, weight on hands and knees					
42. 4 POINT: Reaches forward with R arm, hand above shoulder level					
43. 4 POINT: Reaches forward with L arm, hand above shoulder level					
44. 4 POINT: Crawls or hitches forward 1.8 m (6')					
45. 4 POINT: Crawls reciprocally forward 1.8 m (6')					
46. 4 POINT: Crawls up 4 steps on hands and knees/feet					
47. 4 POINT: Crawls backwards down 4 steps on hands and knees/feet					
48. SIT on mat: Attains HIGH KN using arms, maintains, arms free, 10 seconds					
49. HIGH KN: Attains HALF KN on R knee using arms, maintains, arms free, 10 seconds					
50. HIGH KN: Attains HALF KN on L knee using arms, maintains, arms free, 10 seconds					
51. HIGH KN: KN walks forward 10 steps, arms free					
Total of dimension C					
Dimension D: Standing	Scoring				NT
	0	1	2	3	
52. ON THE FLOOR: Pulls to STD at large bench					
53. STD: Maintains, arms free, 3 seconds					
54. STD: Holding on to large bench with one hand, lifts R foot, 3 seconds					
55. STD: Holding on to large bench with one hand, lifts L foot, 3 seconds					
56. STD: Maintains, arms free, 20 seconds					
57. STD: Lifts L foot, arms free, 10 seconds					
58. STD: Lifts R foot, arms free, 10 seconds					
59. SIT on small bench: Attains STD without using arms					
60. HIGH KN: Attains STD through HALF KN on R knee, without using arms					
61. HIGH KN: Attains STD through HALF KN on L knee, without using arms					
62. STD: Lowers to SIT on floor with control, arms free					
63. STD: Attains squat, arms free					
64. STD: Picks up object from floor, arms free, returns to stand					
Total of dimension D					

Dimension E: Walking, running, & jumping	Scoring				NT
	0	1	2	3	
65. STD, 2 hands on large bench: Cruises 5 steps to R					
66. STD, 2 hands on large bench: Cruises 5 steps to L					
67. STD, 2 hands held: Walks forward 10 steps					
68. STD, 1 hand held: Walks forward 10 steps					
69. STD: Walks forward 10 steps					
70. STD: Walks forward 10 steps, stops, turns 180°, returns					
71. STD: Walks backward 10 steps					
72. STD: Walks forward 10 steps, carrying a large object with 2 hands					
73. STD: Walks forward 10 consecutive steps between parallel lines 20 cm (8") apart					
74. STD: Walks forward 10 consecutive steps on a straight line 2 cm (3/4") wide					
75. STD: Steps over stick at knee level, R foot leading					
76. STD: Steps over stick at knee level, L foot leading					
77. STD: Runs 4.5 m (15'), stops & returns					
78. STD: Kicks ball with R foot					
79. STD: Kicks ball with L foot					
80. STD: Jumps 30 cm (12") high, both feet simultaneously					
81. STD: Jumps forward 30 cm (12"), both feet simultaneously					
82. STD on R foot: Hops on R foot 10 times within a 60 cm (24") circle					
83. STD on L foot: Hops on L foot 10 times within a 60 cm (24") circle					
84. STD, holding 1 rail: Walks up 4 steps, holding 1 rail, alternating feet					
85. STD, holding 1 rail: Walks down 4 steps, holding 1 rail, alternating feet					
86. STD: Walks up 4 steps, alternating feet					
87. STD: Walks down 4 steps, alternating feet					
88. STD on 15 cm (6") step: Jumps off, both feet simultaneously					
Total of dimension E					

GMFM-88 summary score

Dimension	Calculation of dimension % scores	Goal area
A. Lying & rolling	Total dimension A ÷ 51 = _____ ÷ 51 × 100 = _____ %	
B. Sitting	Total dimension B ÷ 60 = _____ ÷ 60 × 100 = _____ %	
C. Crawling & kneeling	Total dimension C ÷ 42 = _____ ÷ 42 × 100 = _____ %	
D. Standing	Total dimension D ÷ 39 = _____ ÷ 39 × 100 = _____ %	
E. Walking, running, & jumping	Total dimension E ÷ 72 = _____ ÷ 72 × 100 = _____ %	

Total score = (%A + %B + %C + %D + %E) ÷ (Total # of Dimensions)

= _____ ÷ 5

= _____ %

Goal total score = (Sum of % scores for each dimension identified as a goal area) ÷ (# of Goal areas)

= _____ ÷ 5

= _____ %

GMFM-66 Gross Motor Ability Estimator score

from the Gross Motor Ability Estimator (GMAE-2) Software

GMFM-66 score = _____

_____ to _____ (95% Confidence intervals)

previous GMFM-66 score = _____

_____ to _____ (95% Confidence intervals)

change in GMFM-66 = _____

Testing with aids/orthoses using the GMFM-88

Indicate below with a check which aid/orthosis was used and what dimension it was first applied. (There may be more than one).

Aid	Dimension	
Rollator/pusher		
Walker		
H-frame crutches		
Crutches		
Quad cane		
Cane		
Other (specify below)		
Other (specify below)		
Other (specify below)		

Testing with aids/orthoses using the GMFM-88(*cont.*)

Orthosis	Dimension	
Hip control		
Knee control		
Ankle-foot control		
Foot control		
Shoes		
None		
Other (specify below)		
Other (specify below)		
Other (specify below)		

GMFM-88 summary score using aids/orthoses

Dimension	Calculation of dimension % scores	Goal area
A. Lying & rolling	Total dimension A ÷ 51 = _____ ÷ 51 × 100 = _____ %	
B. Sitting	Total dimension B ÷ 60 = _____ ÷ 60 × 100 = _____ %	
C. Crawling & kneeling	Total dimension C ÷ 42 = _____ ÷ 42 × 100 = _____ %	
D. Standing	Total dimension D ÷ 39 = _____ ÷ 39 × 100 = _____ %	
E. Walking, running, & jumping	Total dimension E ÷ 72 = _____ ÷ 72 × 100 = _____ %	

Total score = (%A + %B + %C + %D + %E) ÷ (Total # of Dimensions)

= _____ ÷ 5

= _____ %

Goal total score = (Sum of % scores for each dimension identified as a goal area) ÷ (# of Goal areas)

= _____ ÷ 5

= _____ %