

## Concurrent Validity for ASQ-3 Questionnaire Intervals

The following tables summarize the concurrent validity calculated by ASQ-3 interval (with data for 9 and 10 months combined), compared with results from early intervention/early childhood special education (EI/ECSE) eligibility evaluations. In 90% of cases, the Battelle Developmental Inventory–II was used as one norm-referenced test in the eligibility determination. “Typical” indicates the child’s developmental status was evaluated as age appropriate; “Eligible” indicates the child was identified as needing further assessment (by the ASQ-3) or eligible for EI or ECSE services (by the Battelle). Note that for several intervals, *n* is less than 25 and results should be regarded as preliminary.

### 2 month

		Eligibility status		
		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	0	0	0
	Typical	0	9	9
	Total	0	9	9

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
N/A	100.0%	0.0%	N/A	100.0%	0.0%	0.0%

### 4 month

		Eligibility status		
		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	2	1	3
	Typical	0	3	3
	Total	2	4	6

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
100.0%	75.0%	25.0%	0.0%	83.3%	0.0%	16.7%

### 6 month

		Eligibility status		
		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	6	1	7
	Typical	2	12	14
	Total	8	13	21

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
75.0%	92.3%	7.7%	25.0%	85.7%	9.5%	4.8%

(continued)

## Concurrent Validity for ASQ-3 Questionnaire Intervals *(continued)*

### 8 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	9	1	10
	Typical	1	13	14
	Total	10	14	24

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
90.0%	92.9%	7.1%	10.0%	91.7%	4.2%	4.2%

### 10 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	7	1	8
	Typical	2	12	14
	Total	9	13	22

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
77.8%	92.3%	7.7%	22.2%	86.4%	9.1%	4.5%

### 12 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	9	2	11
	Typical	1	14	15
	Total	10	16	26

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
90.0%	87.5%	12.5%	10.0%	88.5%	3.8%	7.7%

### 14 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	4	3	7
	Typical	0	7	7
	Total	4	10	14

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
100.0%	70.0%	30.0%	0.0%	78.6%	0.0%	21.4%

*(continued)*

## Concurrent Validity for ASQ-3 Questionnaire Intervals *(continued)*

### 16 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	6	0	6
	Typical	1	12	13
	Total	7	12	19

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
85.7%	100.0%	0.0%	14.3%	94.7%	5.3%	0.0%

### 18 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	7	4	11
	Typical	1	10	11
	Total	8	14	22

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
87.5%	71.4%	28.6%	12.5%	77.3%	4.5%	18.2%

### 20 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	14	5	19
	Typical	2	13	15
	Total	16	18	34

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
87.5%	72.2%	27.8%	12.5%	79.4%	5.9%	14.7%

### 22 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	4	2	6
	Typical	1	16	17
	Total	5	18	23

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
80.0%	88.9%	11.1%	20.0%	87.0%	4.3%	8.7%

*(continued)*

## Concurrent Validity for ASQ-3 Questionnaire Intervals *(continued)*

### 24 month

#### Eligibility status

	Eligible	Typical	Total
Eligible	31	9	40
Typical	3	23	26
Total	34	32	66

Status determined by ASQ-3

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
91.2%	71.9%	28.1%	8.8%	81.8%	4.5%	13.6%

### 27 month

#### Eligibility status

	Eligible	Typical	Total
Eligible	14	3	17
Typical	4	19	23
Total	18	22	40

Status determined by ASQ-3

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
77.8%	86.4%	13.6%	22.2%	82.5%	10.0%	7.5%

### 30 month

#### Eligibility status

	Eligible	Typical	Total
Eligible	26	2	28
Typical	4	28	32
Total	30	30	60

Status determined by ASQ-3

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
86.7%	93.3%	6.7%	13.3%	90.0%	6.7%	3.3%

### 33 month

#### Eligibility status

	Eligible	Typical	Total
Eligible	7	5	12
Typical	2	15	17
Total	9	20	29

Status determined by ASQ-3

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
77.8%	75.0%	25.0%	22.2%	75.9%	6.9%	17.2%

*(continued)*

## Concurrent Validity for ASQ-3 Questionnaire Intervals *(continued)*

### 36 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	38	4	42
	Typical	4	15	19
	Total	42	19	61

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
90.5%	78.9%	21.1%	9.5%	86.9%	6.6%	6.6%

### 42 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	10	2	12
	Typical	3	4	7
	Total	13	6	19

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
76.9%	66.7%	33.3%	23.1%	73.7%	15.8%	10.5%

### 48 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	19	2	21
	Typical	4	20	24
	Total	23	22	45

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
82.6%	90.9%	9.1%	17.4%	86.7%	8.9%	4.4%

### 54 month

#### Eligibility status

		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	3	0	3
	Typical	0	20	20
	Total	3	20	23

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
100.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%

*(continued)*

### Concurrent Validity for ASQ-3 Questionnaire Intervals *(continued)*

60 month

		Eligibility status		
		Eligible	Typical	Total
Status determined by ASQ-3	Eligible	1	1	2
	Typical	0	14	14
	Total	1	15	16

Sensitivity	Specificity	False positive	False negative	Percent agreement	Under-identified	Over-identified
100.0%	93.3%	6.7%	0.0%	93.8%	0.0%	6.3%