# EENT – Bonnie Testing

#### EENT BONNIE Testing – Summary of Test Data

Measure	Patient	Percentage	Patient	Measurement	Data	Risk	Percent	Testing Summary
Number	Test Bank	Test	Details	Details	Criteria	Adjustment	Successful	Results Capture All
		Coverage			Details	Details		Data
0565	22	15%	Y	Y	Y	N/A	100%	Y
0564	20	23%	Y	Y	Y	N/A	100%	Y
0086	19	100%	Y	Y	Y	N/A	100%	Y
0088	20	100%	Y	Y	Y	N/A	100%	Y
0089	24	95%	Y	Y	Y	N/A	100%	Y
1354	17	100%	Y	Y	Y	N/A	100%	Y

#### **Evaluation Summary**

The NQF eMeasure review team reviewed BONNIE testing data submitted by AMA-PCPI and the CDC for the six measures listed in the chart above. Each section of the measure testing was evaluated based on the guidance detailed below and was determined to have satisfied the criteria described in each section.

#### Percent Test Coverage

Indicates the percentage of the measure logic that has evaluated to true for the patient test deck. This measure provides a method for determining how much of the logic has been tested

#### **Patient Details**

This section describes each test patient and is an overview of the measure Population Criteria. Each test patient should have a unique identifier (Case Number), what part of the measure component they comprise (Initial Patient Population, Denominator, Denominator Exclusion, Numerator, and Numerator Exclusions); their Last and First Name, and elements, including Ethnicity, Race and Sex.

#### **Measurement Details**

Within this section, the developer needs to identify both the Test Procedure Performed in BONNIE, as well as the measure logic description of the Initial Patient Population. They will also need to fill out information that corresponds to the measure logic in the Population Criteria section of the measure, describing the logic statements that identify the measure population. The logic statements include the denominator, denominator exclusions, numerator, numerator exclusions, and denominator exceptions.

#### **Data Criteria Details**

This section details each component of the logic describing QDM Variables and QDM Data Elements. The logic statements described by QDM Variables define activities associated with the measure's QDM Data Elements, including timing and occurrence.

#### **Risk Adjustment Variables**

If the measure to be tested contains risk adjustment variables, include the logic statements describing these criteria.

#### **Percent Successful**

Indicate the percent of patients currently meeting expectations for the measure.

#### **Results (Completing the Testing Summary)**

The summary should include individual logic statements for each section outlined above and indicate if the test patient fulfilled each statement or not. The simulated test bank of patients should be specified much like a real world test bank of patients, not all patients will satisfy all conditions of the measure. Some patients will not be included in the initial patient population, some may be excluded or excepted from the measurement population, or be unable to satisfy the data criteria. The summary should also indicate if the patient satisfied each logic statement and summarize the actual and expected results for each patient. The summary should include individual logic statements for each section outlined above and indicate if the test patient fulfilled each statement or not. The simulated test bank of patients should be specified much like a real world test bank of patients, not all patients will satisfy all conditions of the measure. Some patients will not be included in the initial patient population, some may be excluded or excepted from the measurement population, or be unable to satisfy the data criteria. The summary should also indicate if the patient satisfied each logic statement and summarize the actual and expected results for each patient.

#### NQF 0565 Bonnie Output, Screen Shots and Excel Summary

Cataracts: 20/40 or Better Visual Acuity within 90 Days Following Cataract Surgery



# BONNIE: TEST PATIENT RESULTS BY MEASURE

RESULT	CATEGORY
<b>PASS</b> 100%	22/22 Passing
15%	Coverage

### PASS: TESTArnold, Zelda QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	0	0
$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

#### PASS: TESTBernard, Young QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	0	0
$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTDugger, Wade QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	0	0
$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTEIdridge, Veronica QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	0	0
$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
1	DENEXCEP	0	0

# PASS: TESTFranklin, Udi QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	0	0
$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTHandler, Seth QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0

1	NUMER	0	0
1	DENEXCEP	0	0

### PASS: TESTJackson, Quin QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
1	DENEXCEP	0	0

### PASS: <u>TESTKessington</u>, Penelope QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

### PASS: TESTNolan, Manny QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
✓	DENEX	1	1
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTOppenheimer, Linda QRDA

Status	Population	Expected	Actual
	•	•	

$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	1	1
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTPaulson, Keith QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

### PASS: TESTQuasay, Jane QRDA

Status	Population	Expect	ed Actual
1	IPP	1	1
1	DENOM	1	1
1	DENEX	0	0
1	NUMER	0	0
1	DENEXCEP	0	0

# PASS: TESTRutenbeck, lan QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTSalinger, Hilda QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
1	DENEXCEP	0	0

# PASS: TESTTrotsky, George QRDA

Status	Population	Expected	Actual
1	IPP	1	1
$\checkmark$	DENOM	1	1
1	DENEX	0	0
<b>√</b>	NUMER	1	1
1	DENEXCEP	0	0

# PASS: TESTUnderhill, Fergie QRDA

Status	Population	Exped	cted Actual	
$\checkmark$	IPP	1	1	
$\checkmark$	DENOM	1	1	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	1	1	
$\checkmark$	DENEXCEP	0	0	

### PASS: TESTVance, Edward QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	0	0
$\checkmark$	DENOM	0	0

1	DENEX	0	0
1	NUMER	0	0
1	DENEXCEP	0	0

### PASS: TESTGermaine, Trudie QRDA

Status	Population	Expected	Actual
✓	IPP	0	0
$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTIngrahm, Rianne QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	1	1
1	DENEXCEP	0	0

# PASS: TESTMadison, Nina QRDA

Stat	us Population	Expect	ed Actual	
$\checkmark$	IPP	1	1	
$\checkmark$	DENOM	1	1	
$\checkmark$	DENEX	1	1	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEXCEP	0	0	

PASS: TESTWest, Denise QRDA

Status	Population	Expected	Actual
<b>√</b>	IPP	1	1
<b>√</b>	DENOM	1	1
<b>√</b>	DENEX	0	0
<b>√</b>	NUMER	1	1
✓	DENEXCEP	0	0

# PASS: TESTLightner, Otis QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	1	1
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

#### Summary of Patient Test Cases in Excel

Case #	Age	Procedure, Performed: Cataract Surgery	Denominator Exclusion	Physical Exam with Vision Acuity Result	IP	Denom	Den Excl	Num	Den Expt
		1 during MP, >92 days before		Physical Exam w/Vision Acuity Result of 20/40 or Better <90					
1	17	end of MP	(none)	days starts after end of Procedure	Ν	N	Ν	Ν	N/A
2	18	0 during MP			Ν	Ν	N	Ν	N/A
3	25	1 after MP			Ν	N	N	N	N/A
		1 during MP, =92 days before							
4	30	end of MP			Ν	Ν	Ν	Ν	N/A
		1 during MP, <92 days before							
5	35	end of MP	(none)		Ν	Ν	Ν	Ν	N/A
		1 <92 day(s) before start of	Active Corneal Edema						
6	40	MP	starts during Procedure		Y	Y	N	N	N/A
		1 during MP, >92 days before	Active Scleritis and						
		end of MP	Episcleritis starts after						
7	45		Procedure		Y	Y	N	Ν	N/A
		1 during MP, >92 days before	Active Diabetic Macular	Physical Exam w/Vision Acuity Result of 20/40 or Better <90					
		end of MP	Edema ends before start of	days starts after end of Procedure					
8	50		Procedure		Y	Y	N	Y	N/A
		1 during MP, >92 days before	Active Uveitis starts after						
9	55	end of MP	Procedure		Y	Y	N	N	N/A
		1 during MP, >92 days before	Active Progressive External						
		end of MP	Ophthaloplegia overlaps						
10	60		Procedure		Y	N	Y	N	N/A
		1 during MP, >92 days before	Active Pathologic Myopia						
11	65	end of MP	overlaps Procedure		Y	N	Y	N	N/A
		1 during MP, >92 days before	Active Optic Neuritis	Physical Exam w/Vision Acuity Result of 20/40 or Better <90					
12	70	end of MP	overlaps Procedure	days starts after end of Procedure	Y	N	Y	N	N/A
		1 during MP, >92 days before	Active Cloudy Cornea						
13	75	end of MP	overlaps Procedure		Y	N	Y	N	N/A
		1 during MP, >92 days before	Active Amblyopia overlaps						
14	80	end of MP	Procedure		Y	N	Y	N	N/A
		1 during MP, >92 days before							
15	85	end of MP	(none)	(none)	Y	Y	N	N	N/A
		1 during MP, >92 days before		Physical Exam with Best Corrected Vision Acuity Result					
16	90	end of MP	(none)	Worse than 20/40 <90 starts after end of Procedure	Y	Y	N	N	N/A
		1 during MP, >92 days before		Physical Exam with Best Corrected Vision Acuity Result of					
17	20	end of MP	(none)	20/40 or Better within MP before Procedure	Y	Y	N	N	N/A
		1 during MP, >92 days before		Physical Exam with Best Corrected Vision Acuity Result of					
18	25	end of MP	(none)	20/40 or Better >90 days starts after end of Procedure	Y	Y	N	N	N/A
		1 during MP, >92 days before		Physical Exam with Best Corrected Vision Acuity Result of					
19	30	end of MP	(none)	20/40 or Better =90 days starts after end of Procedure	Y	Y	N	Y	N/A

Case #	Age	Procedure, Performed: Cataract Surgery	Denominator Exclusion	Physical Exam with Vision Acuity Result	IP	Denom	Den Excl	Num	Den Expt
20	25	1 during MP, >92 days before		Physical Exam with Best Corrected Vision Acuity Result of	V	X	N	V	N1 / A
20	35	end of MP 2 during MP, 1 procedure >92 days before end of MP and 1 procedure	(none)	20/40 or Better <90 days starts after end of Procedure Physical Exam with Best Corrected Vision Acuity Result <90 days starts after end of second Procedure	Y	Y	N	Y	N/A
21	40	<92 days before end of MP	(none)		Y/N	Y/N	N/N	N/N	N/A
		2 during MP, both procedures >92 before end of MP		1st Physical Exam w/Poor Vision Acuity Result of worse than 20/40 <90 days starts after end of Procedure; 2nd Physical Exam w/Vision Acuity Result Better than 20/40 <90 days					
22	45		(none)	starts after end of Procedure	Y/Y	Y/Y	N/N	N/Y	N/A

#### NQF 0564 Bonnie Output, Screen Shots and Excel Summary

Cataracts: Complications within 30 Days Following Cataracts Surgery Requiring Additional Surgical Procedures

🖀 MEASURES 🔺		🛓 UPLOAD	EXPECTED	STATUS	TEST PATIEN	ITS
Cataracts: Complications within 30 Days Following Cataract Surgery Requiring Additional Surgical Procedures	CMS132v3	C UPDATE	100	PASS	20 /20	<b>4</b> +

### BONNIE: TEST PATIENT RESULTS BY MEASURE

RESULT	CATEGORY
PASS	20/20
100%	Passing
23%	Coverage

### PASS: TESTArnold, Zelda QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	0	0
$\checkmark$	DENOM	0	0
1	DENEX	0	0
$\checkmark$	NUMER	0	0
1	DENEXCEP	0	0

### PASS: TESTEIdridge, Veronica QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTGermaine, Trudie QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	1	1
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

### PASS: TESTJackson, Quin QRDA

Status	Population	Expected	Actual
<ul> <li>Image: A second s</li></ul>	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	1	1
$\checkmark$	NUMER	0	0
1	DENEXCEP	0	0

# PASS: TESTClay, Xander QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	0	0
$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTDugger, Wade QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	0	0
$\checkmark$	DENOM	0	0
1	DENEX	0	0

<b>√</b>	NUMER	0	0
1	DENEXCEP	0	0

### PASS: TESTFranklin, Udi QRDA

Status	Population	Expected	d Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
1	DENEXCEP	0	0

### PASS: TESTHandler, Seth QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
✓	DENEXCEP	0	0

### PASS: TESTIngrahm, Rianne QRDA

Status	Population	Expected	Actual
1	IPP	1	1
<ul> <li>Image: A second s</li></ul>	DENOM	1	1
1	DENEX	0	0
1	NUMER	0	0
1	DENEXCEP	0	0

# PASS: TESTKessington, Penelope QRDA

Status	Population	Expected	Actual
	· · · · · · · · · · · · · · · · · · ·	-	

$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	1	1
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTLutz, Ophelia QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTLightner, Otis QRDA

Status	Population	Expect	ed Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	1	1
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTMadison, Nina QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	1	1
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTOscar, Lucy QRDA

Status	Population	Expected	Actual
1	IPP	1	1
1	DENOM	1	1
1	DENEX	0	0
1	NUMER	0	0
1	DENEXCEP	0	0

# PASS: TESTOIsen, Lana QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	1	1
1	DENEXCEP	0	0

# PASS: TESTOswald, Laney QRDA

St	atus Populatio	n Expecte	ed Actual	
$\checkmark$	IPP	1	1	
$\checkmark$	DENOM	1	1	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	1	1	
1	DENEXCEP	0	0	

# PASS: TESTOppenheimer, Linda QRDA

Status	Population	Expected	Actual
1	IPP	1	1
	DENOM	1	1

✓	DENEX	0	0
1	NUMER	1	1
1	DENEXCEP	0	0

# PASS: TESTPaulson, Keith QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
✓	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTPendelton, Karen QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	1	1
$\checkmark$	NUMER	0	0
1	DENEXCEP	0	0

# PASS: TESTBernard, Young QRDA

Status	s Population	Expecte	ed Actual	
1	IPP	0	0	
$\checkmark$	DENOM	0	0	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEXCEP	0	0	

#### Summary of Patient Test Cases in Excel

Case	Age	Occurrence A: Procedure, Performed (Cataract Surgery)	Denominator Exclusions	Numerator	IP	Denom	Den Excl	Num	Den Exception
1	16	1 during MP	(none)	Procedure performed (<=30 days after cataract surgery procedure)	N	N	N	N	n/a
2	18	0 during MP	(none)	(none)	N	N	N	N	n/a
3	19	1 before MP	(none)	Procedure performed (<=30 days after cataract surgery procedure)	N	N	N	N	n/a
4	24	1 after MP	(none)	(none)	N	N	Ν	N	n/a
5	29	1 during MP	Prior Pars Plana Vitrectomy ends after cataract surgery procedure	(none)	Y	Y	Ν	N	n/a
6	49	1 during MP	Occurrence A of Diagnosis, Active: Cloudy Cornea starts during cataract surgery procedure	(none)	Y	Y	Ν	N	n/a
7	54	1 during MP	Occurrence A of Diagnosis, Active: Pseudoexfoliation Syndrome starts before the start of cataract surgery procedure	(none)	Y	Y	Y	N	n/a
8	64	1 during MP	Occurrence A of Diagnosis, Active: Corneal Edema starts after the start of cataract surgery procedure	(none)	Y	Y	N	N	n/a
9	39	1 during MP	Prior Pars Plana Vitrectomy ends during cataract surgery procedure	(none)	Y	Y	Ν	N	n/a
10	34	1 during MP	Prior Pars Plana Vitrectomy ends before cataract surgery procedure	(none)	Y	Y	Y	N	n/a
11	44	1 during MP	Occurrence A of Diagnosis, Active: Central Corneal Ulcer starts before the start of cataract surgery procedure	(none)	Y	Y	Y	N	n/a

Case	Age	Occurrence A: Procedure, Performed (Cataract Surgery)	Denominator Exclusions	Numerator	IP	Denom	Den Excl	Num	Den Exception
12	59	1 during MP	Occurrence A of Medication, Active: Use of Systemic Sympathetic alpha-1a Antagonist Medication for Treatment of Prostatic Hypertrophy ends before the start of cataract surgery procedure	(none)	Y	Y	N	Ν	n/a
13	59	1 during MP	Occurrence A of Medication, Active: Use of Systemic Sympathetic alpha-1a Antagonist Medication for Treatment of Prostatic Hypertrophy starts before the start of cataract surgery procedure	(none)	Y	Y	Y	N	n/a
14	79	1 during MP	Occurrence A of Diagnosis, Active: Traumatic Cataract starts before the start of cataract surgery procedure	Procedure performed (<=30 days starts after cataract surgery procedure)	Y	Y	Y	Ν	n/a
15	89	1 during MP	(none)	None	Y	Y	N	N	n/a
16	89	1 during MP	(none)	Procedure performed (<=30 days starts after cataract surgery procedure)	Ŷ	Y	N	Y	n/a
17	89	1 during MP	(none)	Procedure performed (=30 days starts after cataract surgery procedure)	Y	Y	N	Y	n/a
18	94	1 during MP	(none)	Procedure performed (>30 days starts after procedure cataract surgery within the MP)	Y	Y	N	N	n/a
19	94	2 during MP	Occurrence A of Diagnosis, Active: Traumatic Cataract starts after cataract surgery procedure 1 and before the start of cataract surgery procedure 2	2 Procedures performed (<=30 days starts after cataract surgery procedure)	Y/ Y	Y/ Y	N/ Y	Y/ N	n/a

#### NQF 0086 Bonnie Output, Screen Shots and Excel Summary

Primary Open-Angle Glaucoma: Optic Nerve Evaluation



# BONNIE: TEST PATIENT RESULTS BY MEASURE

	RESULT		CATEGORY
PASS		19/19	
100%		Passing	
100%		Coverage	

#### PASS: TESTArnold, Zelda QRDA

Status	Population	Expe	cted Actual	
1	IPP	0	0	
1	DENOM	0	0	
1	DENEX	0	0	
1	NUMER	0	0	
1	DENEXCEP	0	0	

#### PASS: TESTClay, Xander QRDA

	Status	Population	Expected	Actual
$\checkmark$		IPP	0	0
$\checkmark$		DENOM	0	0
$\checkmark$		DENEX	0	0
$\checkmark$		NUMER	0	0
✓		DENEXCEP	0	0

#### PASS: TESTEIdridge, Veronica QRDA

Status	Population	Expected	Actual
1	IPP	0	0

$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

### PASS: TESTFranklin, Udi QRDA

;	Status	Population	Expected	Actual
$\checkmark$	IPP	0	0	
$\checkmark$	DENOM	0	0	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEXC	EP 0	0	

### PASS: TESTGermaine, Trudie QRDA

Stat	us Population	Expect	ed Actual	
1	IPP	0	0	
1	DENOM	0	0	
1	DENEX	0	0	
1	NUMER	0	0	
1	DENEXCEP	0	0	

#### PASS: TESTKessington, Penelope QRDA

	Status	Population	Expected	Actual
$\checkmark$	IPP	1	1	
$\checkmark$	DENOM	1	1	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEX	CEP 0	0	

### PASS: TESTSalinger, Hilda QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1

$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

#### PASS: TESTTrotsky, George QRDA

Status	Population	Expected	Actual
1	IPP	1	1
1	DENOM	1	1
1	DENEX	0	0
1	NUMER	0	0
1	DENEXCEP	0	0

### PASS: TESTJackson, Quin QRDA

Stat	us Population	Expecte	ed Actual	
1	IPP	0	0	
1	DENOM	0	0	
1	DENEX	0	0	
1	NUMER	0	0	
$\checkmark$	DENEXCEP	0	0	

#### PASS: TESTLightner, Otis QRDA

:	Status	Population	Expected	Actual
$\checkmark$	IPP	1	1	
$\checkmark$	DENOM	1	1	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEXC	EP 0	0	

### PASS: TESTNolan, Manny QRDA

Status	Population	Expected	Actual
1	IPP	1	1

$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	1	1
$\checkmark$	DENEXCEP	0	0

#### PASS: TESTQuasay, Jane QRDA

S	tatus Pop	pulation Expe	cted Actu	ıal
$\checkmark$	IPP	1	1	
<b>√</b>	DENOM	1	1	
<ul> <li>Image: A start of the start of</li></ul>	DENEX	0	0	
<b>√</b>	NUMER	0	0	
1	DENEXCEP	1	1	

### PASS: TESTUnderhill, Fergie QRDA

Statu	IS Population	Expect	ed Actual	
$\checkmark$	IPP	1	1	
$\checkmark$	DENOM	1	1	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEXCEP	0	0	

#### PASS: TESTVance, Edward QRDA

Status	Population	Expected	Actual
<ul> <li>Image: A second s</li></ul>	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
<ul> <li>Image: A second s</li></ul>	DENEXCEP	1	1

### PASS: TESTWest, Denise QRDA

Status	Population	Expected	Actual
1	IPP	1	1

$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	1	1

#### PASS: TESTPaulson, Keith QRDA

Sta	tus Population	Expecte	d Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
1	DENEXCEP	1	1

### PASS: TESTRutenbeck, Ian QRDA

Statu	IS Population	Expect	ed Actual	
$\checkmark$	IPP	1	1	
$\checkmark$	DENOM	1	1	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEXCEP	0	0	

#### PASS: TESTXiao, Curtis QRDA

5	Status	Population	Expected	Actual
✓	IPP	1	1	
✓	DENOM	1	1	
✓	DENEX	0	0	
✓	NUMER	1	1	
✓	DENEXC	EP 0	0	

### PASS: TESTOppenheimer, Linda QRDA

Status	Population	Expected	Actual
1	IPP	1	1

1	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
1	DENEXCEP	0	0

#### Summary of Patient Test Cases in Excel

					_			Den		Den
Case #	Age	Encounter	POAG	Diagnostic Study, Result	Exception	IP	Denom	Excl	Num	Expt
				Diagnostic Study, Result: Cup to Disc Ratio						
				(result) during encounter						
			POAG active before	Diagnostic Study, Result: Optic Disc Exam for						
1	17	1 alumina a	Occurrence A Encounter, Performed	Structural Abnormalities (result) during			N		N	N
1	17	1 during	POAG active before	encounter	<none></none>	N	N	n/a	N	N
			Occurrence A							
2	25	1 before MP	Encounter, Performed	(1000)		N	N	n/2	N	Ν
Z	25	I Defore MP	Encounter, Performed	<pre><none> Diagnostic Study, Result: Cup to Disc Ratio</none></pre>	<none></none>	IN	IN	n/a	IN	IN
				(result) during encounter						
			POAG active before	Diagnostic Study, Result: Optic Disc Exam for						
			Occurrence A	Structural Abnormalities (result) during						
3	35	1 after MP	Encounter, Performed	encounter	<none></none>	N	Ν	n/a	N	Ν
4	40	1 during	<none></none>	<pre></pre> <pre></pre>	<none></none>	N	N	n/a	N	N
1	10	1 during		Diagnostic Study, Result: Cup to Disc Ratio				ny a		
				(result) during encounter						
			POAG ends before	Diagnostic Study, Result: Optic Disc Exam for						
			Occurrence A	Structural Abnormalities (result) during						
5	45	1 during	Encounter, Performed	encounter	<none></none>	N	N	n/a	N	Ν
				Diagnostic Study, Result: Cup to Disc Ratio				,		
			POAG starts after	(result) during encounter						
			Occurrence A	Diagnostic Study, Result: Optic Disc Exam for						
			Encounter, Performed	Structural Abnormalities (result) during						
6	60	1 during	during MP	encounter	<none></none>	Ν	Ν	n/a	N	Ν
				Diagnostic Study, Result: Cup to Disc Ratio						
				(result) before encounter						
			POAG active before	Diagnostic Study, Result: Optic Disc Exam for						
			Occurrence A	Structural Abnormalities (result) before						
7	65	1 during	Encounter, Performed	encounter	<none></none>	Y	Y	n/a	N	Ν
				Diagnostic Study, Result: Cup to Disc Ratio						
				(result) after encounter encounter						
			POAG active before	Diagnostic Study, Result: Optic Disc Exam for						
			Occurrence A	Structural Abnormalities (result) after						
8	70	1 during	Encounter, Performed	encounter	<none></none>	Y	Y	n/a	N	N
				Diagnostic Study, Result: Cup to Disc Ratio						
				(result) during encounter	Medical Reason (optic					
			POAG active before	Diagnostic Study, Result: Optic Disc Exam for	disc exam for structural					
	0.0		Occurrence A	Structural Abnormalities (result) during	abnormalities) during					
9	80	1 during	Encounter, Performed	encounter	encounter	Y	Y	n/a	Y	N

								Den		Den
Case #	Age	Encounter	POAG	Diagnostic Study, Result	Exception	IP	Denom	Excl	Num	Expt
					Medical Reason (cup to					
					disc ratio) after					
				Diagnostic Study, Result: Cup to Disc Ratio	encounter					
				(result) after encounter encounter	Medical Reason (optic					
			POAG active before	Diagnostic Study, Result: Optic Disc Exam for	disc exam for structural					
			Occurrence A	Structural Abnormalities (result) after	abnormalities) after					
10	85	1 during	Encounter, Performed	encounter	encounter	Y	Y	n/a	Ν	Ν
				Diagnostic Study, Result: Cup to Disc Ratio						
				(result) before encounter	Madical Basson (antic					
					Medical Reason (optic					
			POAG active before	Diagnostic Study, Result: Optic Disc Exam for	disc exam for structural					
	00		Occurrence A	Structural Abnormalities (result) before	abnormalities) starts		N	,		N/
11	90	1 during	Encounter, Performed	encounter	during encounter	Y	Y	n/a	N	Y
			POAG starts during		Medical Reason (cup to					
			Occurrence A		disc ratio) during					
12	20	1 during	Encounter, Performed	<none></none>	encounter	Y	Y	n/a	N	Y
			POAG starts during		Medical Reason (cup to					
			Occurrence A		disc ratio) before					
13	25	1 during	Encounter, Performed	<none></none>	encounter	Y	Y	n/a	N	Ν
			POAG starts during							
			Occurrence A							
14	30	1 during	Encounter, Performed	<none></none>	<none></none>	Y	Y	n/a	N	Ν
			POAG starts during							
			Occurrence A	Diagnostic Study, Result: Optic Disc Exam for						
15	35	1 during	Encounter, Performed	Structural Abnormalities during encounter	<none></none>	Y	Y	n/a	Ν	Ν
			POAG starts during							
			Occurrence A	Diagnostic Study, Result: Cup to Disc Ratio						
16	40	1 during	Encounter, Performed	(result) during encounter	<none></none>	Y	Y	n/a	Ν	Ν
					Medical Reason (optic					
			POAG starts during		disc exam for structural					
			Occurrence A		abnormalities) during					
17	45	1 during	Encounter, Performed	<none></none>	encounter	Y	Y	n/a	Ν	Y
		y	POAG starts during	Diagnostic Study, Result: Optic Disc Exam for						
			Occurrence A	Structural Abnormalities (result) before	Medical Reason (cup to					
18	55	1 during	Encounter, Performed	encounter	disc) during encounter	Y	Y	n/a	Y	Y
				Diagnostic Study, Result: Cup to Disc Ratio				, •		
				(result) during encounter						
			POAG starts during	Diagnostic Study, Result: Optic Disc Exam for						
			5	5 , 1						
19	60	1 during			<none></none>	v	v	n/a	v	N
19	60	1 during	Occurrence A Encounter, Performed	Structural Abnormalities (result) during encounter	<none></none>	Y	Y	n/a	Y	N

#### NQF 0088 Bonnie Output, Screen Shots and Excel Summary

#### Diabetic Retinopathy: Documentation of Presence or Absence of Macular Edema



# BONNIE: TEST PATIENT RESULTS BY MEASURE

RESULT	CATEGORY
PASS	20/20
100%	Passing
100%	Coverage

#### PASS: TESTBernard, Young QRDA

	Status	Population	Expected	Actual
1		IPP	0	0
$\checkmark$		DENOM	0	0
$\checkmark$		DENEX	0	0
$\checkmark$		NUMER	0	0
$\checkmark$		DENEXCEP	0	0

#### PASS: TESTFranklin, Udi QRDA

	Status	Population	Expected	Actual
$\checkmark$		IPP	0	0
$\checkmark$		DENOM	0	0
$\checkmark$		DENEX	0	0
$\checkmark$		NUMER	0	0
1		DENEXCEP	0	0

#### PASS: TESTJackson, Quin QRDA

Status	Population	Expected	Actual
1	IPP	0	0

$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

#### PASS: TESTKessington, Penelope QRDA

	Status	Population	Expected	Actual
$\checkmark$	IPP	0	0	
$\checkmark$	DENOM	0	0	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEXC	EP 0	0	

### PASS: TESTVance, Edward QRDA

Status	B Population	Expec	ted Actual	
1	IPP	1	1	
1	DENOM	1	1	
1	DENEX	0	0	
1	NUMER	0	0	
1	DENEXCEP	0	0	

#### PASS: TESTZamora, Abel QRDA

Status	Population	Expe	cted Actual	
$\checkmark$	IPP	1	1	
$\checkmark$	DENOM	1	1	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
1	DENEXCEP	1	1	

### PASS: TESTBurns, Yosef QRDA

s	tatus	Population	Expected	Actual
1	IPP	1		1

$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	1	1
$\checkmark$	DENEXCEP	0	0

#### PASS: TESTSalinger, Hilda QRDA

	Status	Population	Expected	Actual
$\checkmark$	IP	Р	1	1
$\checkmark$	DE	ENOM	1	1
$\checkmark$	DE	ENEX	0	0
1	NU	UMER	1	1
1	DE	ENEXCEP	0	0

### PASS: TESTGermaine, Trudie QRDA

Stat	us Population	Expect	ed Actual	
1	IPP	0	0	
1	DENOM	0	0	
1	DENEX	0	0	
1	NUMER	0	0	
1	DENEXCEP	0	0	

#### PASS: TESTMiller, Natalia QRDA

Status	Population	Expec	ted Actual	
$\checkmark$	IPP	1	1	
$\checkmark$	DENOM	1	1	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEXCEP	0	0	

### PASS: TESTOppenheimer, Linda QRDA

Status	Population	Expected	Actual
1	IPP	1	1

$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

### PASS: TESTArnt, Zoella QRDA

5	Status	Population	Expected	Actual
✓	IPP	1	1	
✓	DENOM	1	1	
✓	DENEX	0	0	
✓	NUMER	1	1	
$\checkmark$	DENEXC	EP 0	0	

### PASS: TESTCunningham, Xena QRDA

	Status	Population	Expected	Actual
$\checkmark$	IPP	1	1	
$\checkmark$	DENOM	1	1	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEX	CEP 0	0	

#### PASS: TESTEIdridge, Veronica QRDA

Statu	us Population	Expecte	ed Actual
1	IPP	0	0
$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

### PASS: TESTNolan, Manny QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1

$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

#### PASS: TESTPaulson, Keith QRDA

Sta	tus Population	Expect	ed Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
1	DENEXCEP	0	0

### PASS: TESTQuasay, Jane QRDA

Status	s Population	Expect	ed Actual	
1	IPP	1	1	
$\checkmark$	DENOM	1	1	
1	DENEX	0	0	
$\checkmark$	NUMER	0	0	
1	DENEXCEP	0	0	

#### PASS: TESTWest, Denise QRDA

Status	Population	Expe	Actual	
1	IPP	1	1	
$\checkmark$	DENOM	1	1	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEXCEP	0	0	

### PASS: TESTArnold, Zelda QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	0	0

$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTMadison, Nina QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
1	DENEXCEP	0	0

#### Summary of Patient Test Cases in Excel

Case #	Age	Encounter	Diabetic Retinopathy	Diagnostic Study, Result: level of severity	Diagnostic Study, Result: macular edema "absent"/"present"	Denominator Exceptions	IP	Denom	Den Excl	Num	Den Expt
1	17	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	Macular Exam with result level of severity during Encounter	Macular Exam result macular edema "absent" during Encounter	none	N	N	N/A	N	Ν
2	18	(none)	Diabetic Retinopathy starts before MP	none	none	none	N	N	N/A	N	N
3	30	1 before MP	Diabetic Retinopathy starts before Occ A Encounter	Macular Exam with result level of severity during Encounter	Macular Exam result macular edema "absent" during Encounter	none	N	N	N/A	N	Ν
4	35	1 after MP	Diabetic Retinopathy starts before Occ A Encounter	none	none	Medical Reason (Diagnostic Study, Performed not done) during Encounter	N	N	N/A	N	N
5	40	1 during MP	(none)	Macular Exam with result level of severity during Encounter	Macular Exam result macular edema "absent" during Encounter	none	N	N	N/A	N	N
6	55	1 during MP	Diabetic retinopathy ends before Occ A Encounter	none	none	Patient Reason (Diagnostic Study, Performed not done) during Encounter	N	N	N/A	N	N
7	55	1 during MP	Diabetic Retinopathy starts after Occ A Encounter	none	none	none	N	N	N/A	N	Y
8	70	1 during MP	Diabetic Retinopathy ends during Occ A Encounter	(none)	Macular Exam result macular edema "present" during Encounter	none	Y	Y	N/A	N	N
9	70	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	Macular Exam level of severity result before Encounter	Macular Exam result macular edema "present" during Encounter	none	Y	Y	N/A	N	N
10	75	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	Macular Exam level of severity result after Encounter	Macular Exam result macular edema "present" during Encounter	none	Y	Y	N/A	N	N
11	80	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	Macular Exam with result level of severity during Encounter	(none)	none	Y	Y	N/A	N	N
12	85	1 during MP	Diabetic Retinopathy starts before Occ A	Macular Exam with result level of	Macular exam result macular edema "absent" before	none	Y	Y	N/A	N	Ν

Case #	Age	Encounter	Diabetic Retinopathy	Diagnostic Study, Result: level of severity	Diagnostic Study, Result: macular edema "absent"/"present"	Denominator Exceptions	IP	Denom	Den Excl	Num	Den Expt
			Encounter	severity during Encounter	Encounter, performed						
13	90	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	Macular Exam with result level of severity during Encounter	Macular exam result macular edema "present" after Encounter, performed	none	Y	Y	N/A	N	N
14	25	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	Macular Exam with result level of severity during Encounter	Macular Exam result macular edema "absent" during Encounter	none	Y	Y	N/A	Y	Ν
15	40	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	none	none	Patient Reason (Diagnostic Study, Performed not done) before Encounter	Y	Y	N/A	N	N
16	45	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	Macular Exam with result level of severity during Encounter	none	Medical Reason (Diagnostic Study, Performed not done) after Encounter	Y	Y	N/A	N	Ν
17	60	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	none	none	Patient Reason (Diagnostic Study, Performed not done) during Encounter	Y	Y	N/A	N	Y
18	65	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	Macular Exam with result level of severity during Encounter	Macular Exam result macular edema "present" during Encounter	Medical Reason (Diagnostic Study, Performed not done) during Encounter	Y	Y	N/A	Y	Y
19	70	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	Macular Exam with result level of severity during Encounter	Macular Exam result macular edema "present" during Encounter	none	Y	Y	N/A	Y	N
20	75	1 during MP	Diabetic Retinopathy starts before Occ A Encounter	Macular Exam, No Result, during Encounter	Macular Exam, No result, during Encounter	none	Y	Y	N/A	N	N
### NQF 0089 Bonnie Output, Screen Shots and Excel Summary

Diabetic Retinopathy: Communication with the Physician Managing Ongoing Diabetes Care



# BONNIE: TEST PATIENT RESULTS BY MEASURE

	RESULT		CATEGORY
PASS		24/24	
100%		Passing	
95%		Coverage	

### PASS: TESTClay, Xander QRDA

	Status	Population	Expected	Actual
$\checkmark$	IPF	2	0	0
$\checkmark$	DE	NOM	0	0
$\checkmark$	DE	NEX	0	0
$\checkmark$	NU	IMER	0	0
$\checkmark$	DE	NEXCEP	0	0

### PASS: TESTDugger, Wade QRDA

	Status	Population	Expected	Actual
$\checkmark$		IPP	0	0
$\checkmark$		DENOM	0	0
$\checkmark$		DENEX	0	0
$\checkmark$		NUMER	0	0
1		DENEXCEP	0	0

# PASS: TESTJackson, Quin QRDA

Status	Population	Expected	Actual
1	IPP	1	1

$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTNolan, Manny QRDA

	Status	Population	Expected	Actual
$\checkmark$		IPP	1	1
$\checkmark$		DENOM	1	1
$\checkmark$		DENEX	0	0
1		NUMER	0	0
1		DENEXCEP	0	0

# PASS: TESTSalinger, Hilda QRDA

St	atus Pop	oulation Expe	cted Actu	al
1	IPP	1	1	
1	DENOM	1	1	
1	DENEX	0	0	
1	NUMER	1	1	
1	DENEXCEP	0	0	

# PASS: TESTOppenheimer, Linda QRDA

Status	Population	Expecte	ed Actual
1	IPP	1	1
1	DENOM	1	1
1	DENEX	0	0
1	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTBernard, Young QRDA

Status	Population	Expected	Actual
1	IPP	0	0

$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTHandler, Seth QRDA

Status	s Population	Expect	ed Actual
$\checkmark$	IPP	0	0
$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTIngrahm, Rianne QRDA

Sta	tus Population	Expecte	ed Actual
$\checkmark$	IPP	0	0
$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTLightner, Otis QRDA

Status	Population	Expected	Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTMadison, Nina QRDA

s	tatus	Population	Expected	Actual
1	IPP	1		1

$\checkmark$	DENOM	0	0
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTTrotsky, George QRDA

Status	Population	Expec	ted Actual
$\checkmark$	IPP	1	1
$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTQuasay, Jane QRDA

Status	s Population	Expec	ted Actual	
1	IPP	1	1	
$\checkmark$	DENOM	1	1	
1	DENEX	0	0	
$\checkmark$	NUMER	0	0	
1	DENEXCEP	0	0	

# PASS: TESTRutenbeck, lan QRDA

Sta	atus Population	Expect	ed Actual	
1	IPP	1	1	
1	DENOM	1	1	
1	DENEX	0	0	
1	NUMER	0	0	
1	DENEXCEP	0	0	

# PASS: TESTVance, Edward QRDA

s	tatus	Population	Expected	Actual
1	IPP	1		1

$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	1	1

# PASS: TESTAcker, Zoe QRDA

	Status	Population	Expected	Actual
$\checkmark$		IPP	1	1
$\checkmark$		DENOM	1	1
$\checkmark$		DENEX	0	0
1		NUMER	0	0
1		DENEXCEP	1	1

# PASS: TESTArnold, Zelda QRDA

Sta	tus Population	Expect	ed Actual	
$\checkmark$	IPP	0	0	
$\checkmark$	DENOM	0	0	
$\checkmark$	DENEX	0	0	
$\checkmark$	NUMER	0	0	
$\checkmark$	DENEXCEP	0	0	

# PASS: TESTGermaine, Trudie QRDA

Status	Population	Expec	ted Actual	
1	IPP	0	0	
1	DENOM	0	0	
1	DENEX	0	0	
1	NUMER	0	0	
1	DENEXCEP	0	0	

# PASS: TESTPaulson, Keith QRDA

Status	Population	Expected	Actual
1	IPP	1	1

$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	0	0

# PASS: TESTUnderhill, Fergie QRDA

Status	Population	Expe	cted Actual	
$\checkmark$	IPP	1	1	
✓	DENOM	1	1	
$\checkmark$	DENEX	0	0	
1	NUMER	1	1	
$\checkmark$	DENEXCEP	0	0	

# PASS: TESTWest, Denise QRDA

S	tatus	Population	Expected	Actual
1	IPP	1	1	1
✓	DENOM	1	1	1
1	DENEX	0	(	)
1	NUMER	0	(	)
1	DENEXC	EP 1	1	1

# PASS: TESTXiao, Curtis QRDA

Sta	atus Populatio	n Expect	ed Actual
1	IPP	1	1
1	DENOM	1	1
1	DENEX	0	0
1	NUMER	0	0
1	DENEXCEP	1	1

# PASS: TESTYoung, Beatrice QRDA

Status	Population	Expected	Actual
1	IPP	1	1

$\checkmark$	DENOM	1	1
$\checkmark$	DENEX	0	0
$\checkmark$	NUMER	0	0
$\checkmark$	DENEXCEP	1	1

# PASS: TESTZillian, Aaron QRDA

Status	Population	Expected	Actual
1	IPP	1	1
1	DENOM	1	1
1	DENEX	0	0
1	NUMER	0	0
1	DENEXCEP	1	1

### Summary of Patient Test Cases in Excel

Case #	Age	Encounter	Diabetic Retinopathy	Diagnostic Study, Performed	Communication from Provider to Provider	Denominator Exceptions	IPP	Denom	Den Excl	Num	Den Expt
					Communication: From Provider	Communication: From					
					to Provider: Level of Severity of	Provider to Provider not					
					Retinopathy Findings and	done: Medical Reason for					
			Diabetic Retinopathy	Macular Exam result	Macular Edema Findings	Macular Edema Findings					
		1 during	starts before Occ A	during Occ A	Present starts after Occ A	Absent starts during Occ A					
1	17	MP	Encounter, Performed	Encounter, Performed	Encounter, Performed	Encounter, Performed	Ν	Ν	N/A	Ν	N
			Diabetic Retinopathy								
		0 during	starts before Occ A	Macular Exam result							
2	18	MP	Encounter, Performed	during MP			Ν	Ν	N/A	Ν	N
			Diabetic Retinopathy	Macular Exam result							
		1 before	starts before Occ A	during Occ A							
3	20	MP	Encounter, Performed	Encounter, Performed			Ν	Ν	N/A	Ν	N
			Diabetic Retinopathy	Macular Exam result							
			starts before Occ A	during Occ A							
4	25	1 after MP	Encounter, Performed	Encounter, Performed			N	N	N/A	N	N
				Macular Exam result							
		1 during		during Occ A							
5	40	MP	(none)	Encounter, Performed			N	N	N/A	N	N
					Communication: From Provider						
					to Provider: Level of Severity of						
			Diabetic Retinopathy		Retinopathy Findings and						
			ends before start of	Macular Exam result	Macular Edema Findings						
		1 during	Occ A Encounter,	during Occ A	Present starts after Occ A						
6	45	MP	Performed	Encounter, Performed	Encounter, Performed		Ν	N	N/A	N	N
				Macular Exam result							
_		1 during	Diabetic Retinopathy	during Occ A							
7	50	MP	starts after MP	Encounter, Performed			N	N	N/A	N	N
			Diabetic Retinopathy								
0		1 during	starts during Occ A	(			v		N1 / A	N	
8	55	MP	Encounter, Performed	(none)			Y	N	N/A	N	N
		1 during	Diabetic Retinopathy starts during Occ A	Macular Exam result before Occ A							
9	65	1 during MP	Encounter, Performed	Encounter, Performed			Y	N	N/A	N	N
9	05	IVIP	Diabetic Retinopathy	Macular Exam result			T	IN	IN/A	IN	IN
		1 during	starts during Occ A	after Occ A Encounter,							
10	70	MP	Encounter, Performed	Performed			Y	N	N/A	N	N
10	70	IVIF	Diabetic Retinopathy	Macular Exam result			1		N/A	IN	
		1 during	starts during Occ A	during Occ A							
11	75	MP	Encounter, Performed	Encounter, Performed	(none)		Y	Y	N/A	N	Ν
	, ,		counter, r enonned	_neounter, r chonneu	Communication: From Provider						
			Diabetic Retinopathy	Macular Exam result	to Provider: Macular Edema						
		1 during	starts during Occ A	during Occ A	Findings Present during Occ A						
12	80	MP	Encounter, Performed	Encounter, Performed	Encounter, Performed		Y	Y	N/A	Ν	Ν

Case	Age	Encounter	Diabetic	Diagnostic Study,	Communication from	Denominator	IPP	Denom	Den	Num	Den Expt
#	Age	Encounter	Retinopathy	Performed	Provider to Provider	Exceptions	IFF	Denom	Excl	Num	Den Expt
					Communication: From Provider						
					to Provider: Level of Severity of						
			Diabetic Retinopathy	Macular Exam result	Retinopathy Findings before						
		1 during	starts during Occ A	during Occ A	Occ A and Macular Edema						
13	85	MP	Encounter, Performed	Encounter, Performed	Findings Absent after Occ A		Y	Y	N/A	N	N
					Communication: From Provider						
					to Provider: Level of Severity of						
		1	Diabetic Retinopathy	Macular Exam result	Retinopathy Findings after Occ						
14	00	1 during MP	starts during Occ A	during Occ A	A and Macular Edema Findings		Y	Y	N1 / A	N	N
14	90	MP	Encounter, Performed	Encounter, Performed	Present before Occ A		Y	Y	N/A	N	N
					Communication: From Provider						
			Diabetic Retinopathy	Macular Exam result	to Provider: Level of Severity of Retinopathy Findings and						
		1 during	starts during Occ A	during Occ A	Macular Edema Findings						
15	20	MP	Encounter, Performed	Encounter, Performed	Present before Encounter 1		Y	Y	N/A	N	Ν
15	20	1011	Encounter, r enformed	Encounter, renormed	Communication: From Provider			1	IN/A		IN
					to Provider: Level of Severity of						
					Retinopathy Findings and						
			Diabetic Retinopathy	Macular Exam result	Macular Edema Findings						
		1 during	starts during Occ A	during Occ A	Present starts after Occ A						
16	25	MP	Encounter, Performed	Encounter, Performed	Encounter, Performed	(none)	Y	Y	N/A	Y	Ν
			•			Communication: From					
						Provider to Provider not					
						done: Medical Reason for					
			Diabetic Retinopathy	Macular Exam result		Macular Edema Findings					
		1 during	starts during Occ A	during Occ A		Present before Occ A					
17	30	MP	Encounter, Performed	Encounter, Performed	(none)	Encounter, Performed	Y	Y	N/A	Ν	N
					Communication: From Provider	Communication: From					
					to Provider: Level of Severity of	Provider to Provider not					
					Retinopathy Findings and	done: Medical Reason for					
			Diabetic Retinopathy	Macular Exam result	Macular Edema Findings	Macular Edema Findings					
10		1 during	starts during Occ A	during Occ A	Present starts after Occ A	Absent starts during Occ A					
18	35	MP	Encounter, Performed	Encounter, Performed	Encounter, Performed	Encounter, Performed	Y	Y	N/A	Y	N
					Communication: From Provider	Communication: From					
					to Provider: Level of Severity of	Provider to Provider not					
			Disbatic Dating another	Macular Exam result	Retinopathy Findings and	done: Medical Reason for					
		1 during	Diabetic Retinopathy starts during Occ A	during Occ A	Macular Edema Findings Present starts after Occ A	Macular Edema Findings Absent starts after Occ A					
19	40	MP	Encounter, Performed	Encounter, Performed	Encounter, Performed	Encounter, Performed	Y	Y	N/A	Y	Ν
13	40	ivir	Encounter, Performed	Lincounter, Performed	Encounter, Performed	Communication: From	T	T T	IN/A	T	IN
						Provider to Provider not					
						done: Patient Reason for					
			Diabetic Retinopathy	Macular Exam result		Macular Edema Findings					
		1 during	starts during Occ A	during Occ A		Absent starts after Occ A					
20	45	MP	Encounter, Performed	Encounter, Performed	(none)	Encounter, Performed	Y	Y	N/A	N	Y

Case		<b>-</b>	Diabetic	Diagnostic Study,	Communication from	Denominator	100		Den		<b>D</b>
#	Age	Encounter	Retinopathy	Performed	Provider to Provider	Exceptions	IPP	Denom	Excl	Num	Den Expt
						Communication: From					
						Provider to Provider not					
						done: Medical Reason for					
			Diabetic Retinopathy	Macular Exam result		Macular Edema Findings					
		1 during	starts during Occ A	during Occ A		Present starts after Occ A					
21	50	MP	Encounter, Performed	Encounter, Performed	(none)	Encounter, Performed	Y	Y	N/A	Ν	Y
						Communication: From					
						Provider to Provider not					
						done: Patient Reason for					
			Diabetic Retinopathy	Macular Exam result		Macular Edema Findings					
		1 during	starts during Occ A	during Occ A		Present starts after Occ A					
22	55	MP	Encounter, Performed	Encounter, Performed	(none)	Encounter, Performed	Y	Y	N/A	Ν	Y
						Communication: From					
						Provider to Provider not					
						done: Medical Reason for					
						Level of Severity of					
			Diabetic Retinopathy	Macular Exam result		Retinopathy Findings starts					
		1 during	starts during Occ A	during Occ A		after Occ A Encounter,					
23	60	MP	Encounter, Performed	Encounter, Performed	(none)	Performed	Y	Y	N/A	Ν	Y
						Communication: From					
						Provider to Provider not					
						done: Patient Reason for					
						Level of Severity of					
			Diabetic Retinopathy	Macular Exam result		Retinopathy Findings starts					
		1 during	starts during Occ A	during Occ A		after Occ A Encounter,					
24	65	MP	Encounter, Performed	Encounter, Performed	(none)	Performed	Y	Y	N/A	Ν	Y

005	006	007	800	009	010	011	012	013	014	015	016	017
1	1	1	1	1	1	1	1	1	1	0	1	1
1	1	1	1	1	1	1	1	1	1	0	1	1
0	0	1	0	0	0	1	0	0	1	0	1	C
0	0	0	1	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0
InIPP	InIPP	Left/RightR eason	LeftReaso n	NoLeftScre en	NoRightScr een	NoRightScr een	NotExclud edFromDe nom	NotExclud edFromDe nom	NotExclud edFromDe nom	Notin	RightReas on	RightReas on
LivebornIn Hospital	LivebornLi vebirth	Not done	RightScree ned	RightScree ned	LeftScreen ed	NoLeftScre ened	DiedAfterB othEarsScr eened	DiedAfterL eftScreeni ng	DiedAfterR ightScreen ing	MeasureP eriod	LeftReaso n	LeftScreen ed
Not Hispanic or Latino	Not Hispanic or Latino	Not Hispanic or Latino	Not Hispanic or Latino	Not Hispanic or Latino	Not Hispanic or Latino	Not Hispanic or Latino	Not Hispanic or Latino	Not Hispanic or Latino	Not Hispanic or Latino	Not Hispanic or Latino	Not Hispanic or Latino	Not Hispanic or Latino
American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native	American Indian or Alaska Native
Male	Male	Male	Male	Male	Male	Male	Male	Male	Male	Male	Male	Male
Other	Other	Other Baby was	Other Baby was	Other	Other born and	Other Baby was	Other Baby was	Other Baby was	Other Baby was	Other	Other Baby was	Other Baby was
Baby was born and discharge d during the MP. Had an active diagnosis	Baby was born and discharge d during the MP. Had an active diagnosis of Liveborn Newborn Born in Hospital.	born and discharge d during the MP. Had an active diagnosis of Liveborn Newborn Born in Hospital. Screening on left ear was not	born and discharge d during the MP. Had an active diagnosis of Liveborn Newborn Born in Hospital. Screening on left ear was not	Baby was born and discharge d during the MP. Had an active diagnosis of Liveborn Newborn Born in Hospital. Baby died during birth	discharge d during the MP. Had an active diagnosis of Liveborn Newborn Born in Hospital. Baby died during birth encounter	born and discharge d during the MP. Had an active diagnosis of Liveborn Newborn Born in Hospital. Baby had a discharge status of	born and discharge d during the MP. Had an active diagnosis of Liveborn Newborn Born in Hospital. Baby had a discharge status of	born and discharge d during the MP. Had an active diagnosis of Liveborn Newborn Born in Hospital. Baby did not have a discharge	born and discharge d during the MP. Had an active diagnosis of Liveborn Newborn Born in Hospital. Baby had a discharge status of	Baby's birthdate is not in the MP and there is no informatio n provided on the	born and discharge d during the MP. Had an active diagnosis of Liveborn Newborn Born in Hospital. Patient had a discharge status of	born and discharge d during the MP. Had an active diagnosis of Liveborn Newborn Born in Hospital. Patient had a discharge status of
of Liveborn Newborn Born in Hospital. No record	Had an active diagnosis of Livebirth. No record	before discharge due to medicial reasons, but there	before discharge due to medicial reasons, but there	encounter No record of screening on left ear	on left ear was	expired (but Living Status of Deceased is not checked	expired and date of death was recorded. Screening	status of expired but a date of death was recorded	death was recorded	date of the encounter . There also is no informatio	Expired but no date of death was included. Screening	Expired but no date of death was included. Screening
of screening on left ear prior to discharge. No record of screening on right ear prior to discharge.	of screening on left ear prior to discharge. No record of screening on right ear prior to discharge.	is a result recorded Screening on right ear was not performed before	is a result recorded. Screening on right ear was performed	prior to discharge.	with a result of PASS or REFER. No record	and there is no date of death). No record of screening on left ear prior to discharge. No record of screening	on left ear was performed prior to death. Screening on right ear was	prior to discharge.	discharge. No record of screening on left ear. Record of screening on right ear prior to death,	n	on left ear was not performed before discharge due to medicial reasons. Screening on right ear was not	-
See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots
See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots
See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots
See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots	See screen shots

| See<br>screen<br>shots |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                        | See<br>screen<br>shots |                        | See<br>screen<br>shots | See<br>screen<br>shots | See<br>screen<br>shots |
| See tab                |
| See tab                |
| N/A                    |
| excluded               | 1                      | Excluded               | 1                      | 1                      | 1                      | excluded               | 1                      | 1                      | Excluded               | N/A                    | Excluded               | 1                      |
| 0                      | C                      | 0 0                    | 1                      | 0                      | 0                      | 0                      | 1                      | C                      | 0 0                    | N/A                    | C                      | 1                      |

### Data Criteria (QDM Variables)

- \$EncounterInpatient =

   "Encounter, Performed: Encounter Inpatient" satisfies all
   (length of stay <= 120 day(s))</li>
   ends during "Measurement Period"

#### Data Criteria (QDM Data Elements)

- "Diagnosis, Active: Livebirth" using "Livebirth SNOMEDCT Value Set (2.16.840.1.114222.4.1.214079.1.1.1)"
  "Diagnosis, Active: Liveborn Newborn Born in Hospital" using "Liveborn Newborn Born in Hospital Grouping Value Set (2.16.840.1.113762.1.4.1046.6)"
  "Diagnostic Study, Performed: Newborn Hearing Screen Left" using "Newborn Hearing Screen Left LOINC Value Set (2.16.840.1.114222.4.1.214079.1.1.3)"
  "Diagnostic Study, Performed: Newborn Hearing Screen Right" using "Newborn Hearing Screen Left LOINC Value Set (2.16.840.1.114222.4.1.214079.1.1.3)"
  "Diagnostic Study, Performed thearing Screen Right" using "Newborn Hearing Screen Right USINC Value Set (2.16.840.1.11422.4.1.214079.1.1.3)"
  "Diagnostic Study, Performed not done: Medical Reasons" using "Newborn Hearing Screen Right" using "Recounter Inpatient" using "Counter Inpatient" using "Counter Inpatient" using "Counter Inpatient" using "Counter Inpatient" using "Newborn Hearing Screen Right" using "Counter Inpatient" using "Counter Inpatie

#### Supplemental Data Elements

- "Patient Characteristic Ethnicity: Ethnicity" using "Ethnicity CDCREC Value Set (2.16.840.1.114222.4.11.837)"
  "Patient Characteristic Payer: Payer" using "Payer SOP Value Set (2.16.840.1.114222.4.11.3591)"
  "Patient Characteristic Race: Race" using "Race CDCREC Value Set (2.16.840.1.114222.4.11.836)"
  "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex AdministrativeGender Value Set (2.16.840.1.113762.1.4.1)"

La TES		ITS	÷	F
100	PASS	17/1	7 2+	
100	% COVERAGE	E		
		LIII SHOV	V COVERAG	E
✔ 🛎 Baby	BothScreene	ed	PASS~	r
Popula	tion I	Expected	Actual	
<ul> <li>IPP</li> </ul>		1	1	
DENON	1	1	1	
<ul> <li>DENEX</li> </ul>		0	0	
<ul> <li>NUMEF</li> </ul>	}	1	1	
<ul> <li>DENEX</li> </ul>	CEP	0	0	
ONNIE				
Measure Period: 2012	2 🛛 🚍 CMS31v3			-
pisode(s) of Care: ccurrence A of SEncou			eened for hearing l	oss before hospital discha
✓Initial Population	1:			
✓ AND : ✓ Occurr ✓ AND :	ence A: \$Occurrence A o	of \$EncounterInpa	tient ends during "I	Measurement Period"

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### VINION OF:

- ✓ Diagnosis, Active: Liveborn Newborn Born in Hospital
   X Diagnosis, Active: Livebirth
   ✓ starts during ✓ Occurrence A: \$Occurrence A of \$EncounterInpatient

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#### ✓Denominator:

None

Denominator Exclusions:	
* OR :	
* AND :	
* INTERSECTION OF:	
Occurrence A: SOccurrence A of SEncounterInpatient	
<ul> <li>Encounter, Performed: Encounter Inpatient (Discharge Status : Patient Expired)</li> </ul>	
* AND :	
✓ AND NOT:	
V UNION OF:	
<ul> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> </ul>	
<ul> <li>Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )</li> </ul>	
during * Occurrence A: \$Occurrence A of \$EncounterInpatient	
Numerator:	
✓ AND :	
✓ AND : ✓ UNION OF:	
<ul> <li>✓ AND :</li> <li>✓ UNION OF:</li> <li>✓ Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> </ul>	
<ul> <li>✓ AND :</li> <li>✓ UNION OF:</li> <li>✓ Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>★ Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> </ul>	
<ul> <li>✓ AND :</li> <li>✓ UNION OF:</li> <li>✓ Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> </ul>	
<ul> <li>AND :</li> <li>UNION OF:</li> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> <li>during </li> <li>Occurrence A: SOccurrence A of SEncounterInpatient</li> </ul>	
<ul> <li>AND :</li> <li>UNION OF:</li> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> <li>during &lt; Occurrence A: SOccurrence A of SEncounterInpatient</li> <li>AND :</li> </ul>	
<ul> <li>AND:</li> <li>UNION OF:</li> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> <li>during </li> <li>Occurrence A: SOccurrence A of \$EncounterInpatient</li> <li>AND :</li> <li>UNION OF:</li> </ul>	
<ul> <li>UNION OF:</li> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> <li>during </li> <li>Occurrence A: SOccurrence A of SEncounterInpatient</li> <li>AND :</li> <li>UNION OF:</li> <li>Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )</li> </ul>	

Variables:	~
\$EncounterInpatient =	
Encounter, Performed: Encounter Inpatient SATISFIES ALL	
(Length of Stay <= 120 days)	
ends during "Measurement Period"	
Soccurrence A of \$EncounterInpatient =	
Encounter, Performed: Encounter Inpatient SATISFIES ALL	
✓ (Length of Stay <= 120 days)	
✓ ends during "Measurement Period"	
• chus during incusurement renou	

LEST PATIENTS				
100	PASS	17/	17 2+	
100	% COVERAG	θE		
		LIL SHO	W COVERAGE	
🗸 🛔 Baby	BothScreen	ed	PASS >	
-	udedFromDe enedMedical		PASS~	
Popula	tion	Expected	Actual	
IPP		1	1	
DENON	Λ	1	1	
DENEX		1	1	
NUMER	3	0	0	
<ul> <li>DENEX</li> </ul>	CEP	0	0	

# BONNIE

② Measure Period: 2012 Search CMS31v3

# ECMS31V3

### HEARING SCREENING PRIOR TO HOSPITAL DISCHARGE

### Episode(s) of Care:

Occurrence A of \$EncounterInpatient

This measure assesses the proportion of births that have been screened for hearing loss before hospital discharge.







### ✓Initial Population:

AND : Occurrence A: SOccurrence A of SEncounterInpatient ends during "Measurement Period"
 AND :

VINION OF:

Diagnosis, Active: Liveborn Newborn Born in Hospital

× Diagnosis, Active: Livebirth

✓ starts during ✓ Occurrence A: \$Occurrence A of \$EncounterInpatient

✓Denominator:

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 $\sim$ 

None

Variables:	~
\$EncounterInpatient =	
Encounter, Performed: Encounter Inpatient SATISFIES ALL	
(Length of Stay <= 120 days)	
ends during "Measurement Period"	
✓ \$Occurrence A of \$EncounterInpatient =	
Encounter, Performed: Encounter Inpatient SATISFIES ALL	
✓ ( Length of Stay <= 120 days )	
✓ ends during "Measurement Period"	

O START		O STOP	
01/01/2012	12:00 PM	01/01/2012	12:15 PM
CODES			
LOINC: 54108-	б 🗙		
Code Set 👻			•
E Coded 🗸			

E Coded 🗸		•
•		-
NOT PERFORM	ED	
Medical Reason	S	

O START		O STOP	
01/01/2012	12:15 PM	01/01/2012	12:30 PM
CODES			
LOINC: 54109-4	4 ×		
Code Set 👻			-
III RESULT			
E Coded 🚽	-		•
III FIELD VALUE			
E Coded 🗸			-
•			•
NOT PERFOR	MED		
Medical Reaso	ns		

4	\$		
	DO PASS	5 17	/17 2+
	% COVER	AGE	
		Lul SHO	OW COVERAGE
~	Baby BothScre	ened	PASS >
~	ExcludedFrom ScreenedMedic		PASS >
~	InDENEX DiedE creening	Ouring-NoS	PASS~
	Population	Expected	Actual
~	IPP	1	1
~	DENOM	1	1
~	DENEX	1	1
~	NUMER	0	0
~	DENEXCEP	0	0

		PATIENT HISTORY		
		ENCOUNTER Performed: Encounter Inpatient	<b>DATE</b> 01/01/2012 - 01/02/2012	>
ଡ଼	)<	DIAGNOSIS Active: Liveborn Newborn Born in Hospital	<b>DATE</b> 01/01/2012 - 01/01/2012	>

#### PATIENT DESCRIPTION

003			
	DATE OF DEATH		3
10:00 AM	01/02/2012	8:00 AM	
	GENDER		
an or Alaska Nativ 💌	Male		-
	PAYER		
Not Hispanic or Latino			-
	an or Alaska Nati <sup>,</sup> 💌	DATE OF DEATH 10:00 AM 01/02/2012 GENDER an or Alaska Nati <sup>1</sup> Male PAYER	DATE OF DEATH       10:00 AM     01/02/2012     8:00 AM       GENDER       Male       PAYER

TEST PATIENTS			\$	
100	PASS	17,	/17 2+	
100	% COVERAG	E		
		LIL SHO	W COVERAGE	
🗸 🛎 Bab	y BothScreen	ed	PASS >	
• -	ludedFromDer eenedMedical		PASS >	
•	ENEX DiedDur ening	ing-NoS	PASS >	
🗸 🛎 Inif	PP Livebirth		PASS~	
Popu	ation	Expected	Actual	
<ul> <li>IPP</li> </ul>		1	1	
DENC	M	1	1	
✓ DENE	х	0	0	
NUME	ER	0	0	
DENE	XCEP	0	0	

# BONNIE

② Measure Period: 2012 ≥ SCMS31v3



**%** Dashbo

None

Denominator Exclusions:	~
x OR :	
X AND :	
× INTERSECTION OF	
Occurrence A: SOccurrence A of SEncounterInpatient	
Encounter, Performed: Encounter Inpatient (Discharge Status : Patient Expired)	
X AND :	
✓ AND NOT:	
× UNION OF:	
Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Reformed: Newborn Hearing Screen Left (result : Pass Or Reformed Newborn Hearing Screen Left)	
Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Re during * Occurrence A: \$Occurrence A of \$EncounterInpatient	erer)
Numerator:	~
Numerator:	~
	~
<ul> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> </ul>	~
<ul> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reason</li> </ul>	∼
<ul> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reason</li> <li>X during X Occurrence A: SOccurrence A of SEncounterInpatient</li> </ul>	∼ ns)
AND :     XUNION OF:     XDiagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )     X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasor     X during & Occurrence A: SOccurrence A of SEncounterInpatient     AND :	×
<ul> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reason</li> <li>X during * Occurrence A: SOccurrence A of SEncounterInpatient</li> <li>X AND :</li> <li>X UNION OF:</li> </ul>	~ ns)
<ul> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer)</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reason</li> <li>X during * Occurrence A: SOccurrence A of SEncounterInpatient</li> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)</li> </ul>	
<ul> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer)</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reason</li> <li>X during # Occurrence A: SOccurrence A of SEncounterInpatient</li> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reason</li> </ul>	
<ul> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer)</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reason</li> <li>X during * Occurrence A: SOccurrence A of SEncounterInpatient</li> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)</li> </ul>	
<ul> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer)</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reason</li> <li>X during # Occurrence A: SOccurrence A of SEncounterInpatient</li> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reason</li> </ul>	
<ul> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer)</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reason</li> <li>X during # Occurrence A: SOccurrence A of SEncounterInpatient</li> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reason</li> </ul>	

None

### \$EncounterInpatient =

Encounter, Performed: Encounter Inpatient SATISFIES ALL

(Length of Stay <= 120 days)

ends during "Measurement Period"

### \$Occurrence A of \$EncounterInpatient =

Encounter, Performed: Encounter Inpatient SATISFIES ALL

✓ ( Length of Stay <= 120 days )</li>
 ✓ ends during "Measurement Period"

### PATIENT HISTORY

	ENCOUNTER Performed: Encounter Inpatient	<b>DATE</b> 01/01/2012 - 01/02/2012	>
( <del>)</del>	DIAGNOSIS Active: Livebirth	DATE 01/01/2012	>

### PATIENT DESCRIPTION

Case Number: 00	04		
DATE OF BIRTH		LIVING STATUS	<u>**</u> .
01/01/2012	10:00 AM	Deceased	
RACE		GENDER	
American India	n or Alaska Nativ 💌	Male	-
ETHNICITY		PAYER	
Not Hispanic or	Latino 💌	Other	-

🕹 Т	EST PATI	ENTS	\$	
100	PAS	S 17.	/17	
100	% COVER	AGE		
		Ltd SHO	OW COVERAGE	
<b>~</b> 4	Baby BothScre	ened	PASS >	
· -	ExcludedFromI ScreenedMedic		PASS >	
	nDENEX DiedE creening	Ouring-NoS	PASS >	
<b>~</b> 4	nIPP Livebirth		PASS >	
<b>~</b> 4	nIPP Liveborn	InHospital	PASS~	
Po	pulation	Expected	Actual	
🖌 IP	Р	1	1	
🗸 DE	NOM	1	1	
🗸 DE	NEX	0	0	
🖌 NI	JMER	0	0	
✓ DE	ENEXCEP	0	0	
ONNIE Measure Period: 2	012 EL GMS31V3		4	4 D
				*
EARING SCREEN bisode(s) of Ca currence A of SEn	ING PRIOR TO HOSPITAL DISC		ing loss before hospital discha	arge
✓Initial Popula	tion:			~
✓Initial Popula		counterInpatient ends duri		- Contractor

✓ AND : ✓ UNION OF

Denominator:     V	
lone	
Cenominator Exclusions:	~
X OR :	
x AND :	
× INTERSECTION OF:	
Occurrence A: SOccurrence A of SEncounterInpatient	
Encounter, Performed: Encounter Inpatient (Discharge Status : Patient Expired)	
X AND :	
V AND NOT:	
<ul> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> </ul>	
<ul> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass of Refer )</li> <li>Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass of Refer )</li> </ul>	
x during x Occurrence A: \$Occurrence A of \$EncounterInpatient	
«Numerator:	~
x AND :	
X AND : X UNION OF:	
<ul> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> </ul>	
<ul> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> <li>X during * Occurrence A: SOccurrence A of SEncounterInpatient</li> </ul>	
<ul> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> <li>X during * Occurrence A: \$Occurrence A of \$EncounterInpatient</li> <li>X AND :</li> </ul>	
<ul> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> <li>X during * Occurrence A: \$Occurrence A of \$EncounterInpatient</li> <li>X AND :</li> <li>X UNION OF:</li> </ul>	
<ul> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> <li>X during * Occurrence A: \$Occurrence A of \$EncounterInpatient</li> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )</li> </ul>	
<ul> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> <li>X during * Occurrence A: \$Occurrence A of \$EncounterInpatient</li> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reasons)</li> </ul>	
<ul> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)</li> <li>X during * Occurrence A: \$Occurrence A of \$EncounterInpatient</li> <li>X AND :</li> <li>X UNION OF:</li> <li>X Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )</li> </ul>	

\$EncounterInpatient :		
	ed: Encounter Inpatient SATISFIES ALL	
( Length of Stay	-	
	asurement Period"	
✓ \$Occurrence A of \$		
	ed: Encounter Inpatient SATISFIES ALL	
	tay <= 120 days )	
	Measurement Period"	
ATIENT DESCRIPTION		
Case Number: 005		
DATE OF BIRTH	LIVING STATUS	
	LIVING STATUS	
01/01/2012 10:00 AM		
01/01/2012 10:00 AM	Deceased	
RACE	Deceased  GENDER  Male	
01/01/2012 10:00 AM	Deceased GENDER	
01/01/2012 10:00 AM	Deceased GENDER Male PAYER	
01/01/2012 10:00 AM	Deceased GENDER Male PAYER	

	ENCOUNTER Performed: Encounter Inpatient	DATE 01/01/2012 - 01/02/2012	>
(y) <	DIAGNOSIS Active: Liveborn Newborn Born in Hospital	DATE 01/01/2012	>

	Population	Expected	Actual	
~	IPP	1	1	
~	DENOM	1	1	
~	DENEX	0	0	
~	NUMER	0	0	
~	DENEXCEP	0	0	
	CLONE O		SHARE +	5
Measure	e Period: 2012. 曹 CMS31v3			
	1531V3			4
✓ A! ✓ A!	Il Population: ND :  Occurrence A: Soccurrence / ND : UNION OF: Diagnosis, Active: Liveborn Ne Diagnosis, Active: Livebirth starts during Occurrence A:	wborn Born in Hospital	ng "Measurement Period"	~
		SOccurrence A of SEncounterinpat	ient	
✓Deno	minator:	SOccurrence A of SEncounterinpat	lent	~
<b>√Deno</b> None	minator:	SOccurrence A of SEncounterInpat	lent	*
None	minator:	SOccurrence A of \$Encounterinpal	lent	*
None KDenon X OR X J	ninator Exclusions: AND : * INTERSECTION OF: * Occurrence A: SOccurrenc × Encounter, Performed: Enc AND : * AND NOT: * UNION OF: * Diagnostic Study, Perfo * Diagnostic Study, Perfo		atus : Patient Expired ) Left (result : Pass Or Refer Right (result : Pass Or Refe	•••)
None KDenon X OR X J	ninator Exclusions: AND : * INTERSECTION OF * Occurrence A: SOccurrenc * Encounter, Performed: Enc AND : * UNION OF: * UNION OF: * Diagnostic Study, Perfc * Diagnostic Study, Perfc * during * Occurrence A	e A of \$EncounterInpatient ounter Inpatient ( Discharge St. ormed: Newborn Hearing Screen rrmed: Newborn Hearing Screen	atus : Patient Expired ) Left (result : Pass Or Refer Right (result : Pass Or Refe	•••)
None Concorr Concor Concor Concorr Concorr Concorr Concor Concorr Concorr	ninator Exclusions: AND : * INTERSECTION OF * Cocurrence A: SOccurrenc * Encounter, Performed: Enc AND : * UNION OF * Diagnostic Study, Performed: * Diagnostic Study, Performed:	e A of SEncounterInpatient ounter Inpatient ( Discharge St. ormed: Newborn Hearing Screen rmed: Newborn Hearing Screen SOccurrence A of SEncounterIn Newborn Hearing Screen Left ( Inrence A of SEncounterInpatien Newborn Hearing Screen Right Newborn Hearing Screen Right	atus : Patient Expired ) Left (result : Pass Or Refer Right (result : Pass Or Refer patient esult : Pass Or Refer ) Not Done: Medical Reasons th (result : Pass Or Refer ) (Not Done: Medical Reasons	(i) (i) (i)

### Variables:

\$EncounterInpatient =

 $\sim$ 

(Length of Sta	ay <= 120 days )	patient SATISFIES ALL
<ul> <li>✓ \$Occurrence A of Encounter, Perfor</li> <li>✓ (Length of</li> </ul>		ent = patient SATISFIES ALL
PATIENT DESCRIP	TION	
Case Number: 00	б	
DATE OF BIRTH		LIVING STATUS
01/01/2012	10:00 AM	Deceased

RACE	GENDER	
American Indian or Alaska Nati	▼ Male	•
ETHNICITY	PAYER	
		_

# PATIENT HISTORY

	ENCOUNTER Performed: Encounter Inpatient	<b>DATE</b> 01/01/2012 - 01/02/2012	>
હુર	DIAGNOSIS	DATE	>
	Active: Liveborn Newborn Born in Hospital	01/01/2012	
ଡ଼ୄୖ	DIAGNOSIS	DATE	
	Active: Livebirth	01/01/2012	
	Active. Elvebiltit	01/01/2012	

~	Left/RightRend ne	PASS~	
	Population	Expected	Actual
~	IPP	1	1
~	DENOM	1	1
~	DENEX	1	1
~	NUMER	0	0
~	DENEXCEP	0	0

### BONNIE **%** Dashb ④ Measure Period: 2012 ■ CMS31v3 CMS31V3 ÷ HEARING SCREENING PRIOR TO HOSPITAL DISCHARGE Episode(s) of Care: Occurrence A of \$EncounterInpatient This measure assesses the proportion of births that have been screened for hearing loss before hospital discharge. Complexity: 💙 ✓Initial Population: $\sim$ ✓ AND : ✓ Occurrence A: \$Occurrence A of \$EncounterInpatient ends during "Measurement Period" AND : VINION OF: ✓ Diagnosis, Active: Liveborn Newborn Born in Hospital 🗙 Diagnosis, Active: Livebirth ✓ starts during ✓ Occurrence A: \$Occurrence A of \$EncounterInpatient ✓Denominator: $\sim$ None Denominator Exclusions: ~ 🗸 OR : AND : ✓ INTERSECTION OF: Occurrence A: \$Occurrence A of \$EncounterInpatient Encounter, Performed: Encounter Inpatient (Discharge Status : Patient Expired) AND : AND NOT: × UNION OF: × Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer ) ★ Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer ) × during ✓ Occurrence A: \$Occurrence A of \$EncounterInpatient Numerator: × AND: UNION OF: Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer ) Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons) during Occurrence A: \$Occurrence A of \$EncounterInpatient

AND:

- UNION OF:
  Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)
  Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reasons) during Occurrence A: SOccurrence A of SEncounterInpatient

Denominator Exceptions:

None

EncounterInpatient				
		atient SATISFIES ALL		
	ay <= 120 days )			
	leasurement Period EncounterInpatien			
		atient SATISFIES ALL		
	Stay <= 120 days )	uttent of thor teo ALL		
<ul> <li>(Lenguror)</li> </ul>	3(ay <- 120 uays )			
ends during	"Measurement Der	iod"		
<ul> <li>ends during</li> </ul>	"Measurement Per	iod"		
✓ ends during	"Measurement Per	iod"		
		iod" wborn Hearing Screen	Left	~
			Left	~
Diagnostic Stud		ewborn Hearing Screen	Left 12:15 PM	~
Diagnostic Stud	<b>y Result:</b> Result: Ne	ewborn Hearing Screen		~
Diagnostic Stud	<b>y Result:</b> Result: Ne	ewborn Hearing Screen		~

 $\mathbf{\sim}$ 

Code Set 👻			
III RESULT			
Newborn Heari	ing Screen Left 🗙		
E Coded -			-
REASON: Medi	cal Reasons 🗙		
≣ Coded 🕞			-
	;		
			-
NOT PERFOR Medical Reaso			
Medical Reaso	ons	vborn Hearing Screen	Right
Medical Reaso	ons	vborn Hearing Screen	Right
Medical Reaso	ons		Right 12:30 PM
Medical Reaso	y Result: Result: New	() STOP	
Medical Reaso Diagnostic Study O START 01/01/2012	y Result: Result: New	<b>O STOP</b> 01/01/2012	
Diagnostic Study ② START	y Result: Result: New 12:15 PM	<b>O STOP</b> 01/01/2012	
Medical Reaso Diagnostic Study O START 01/01/2012 CODES LOINC: 54109-	y Result: Result: New 12:15 PM	<b>O STOP</b> 01/01/2012	
Medical Reaso	y Result: Result: New 12:15 PM	<b>O STOP</b> 01/01/2012	
Medical Reaso Diagnostic Study OSTART 01/01/2012	y Result: Result: New 12:15 PM	<b>O STOP</b> 01/01/2012	
Medical Reaso Diagnostic Study © START 01/01/2012 CODES LOINC: 54109- Code Set - II RESULT	y Result: Result: New 12:15 PM	<b>O STOP</b> 01/01/2012	
Medical Reaso Diagnostic Study © START 01/01/2012 CODES LOINC: 54109- Code Set - II RESULT	y Result: Result: New 12:15 PM 4 ×	• <b>STOP</b> 01/01/2012 • UNDEFINED	

- +
• +
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<b>~</b> 2
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~
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~
~





None

#### Variables:

 $\mathbf{v}$ 

#### \$EncounterInpatient =

Encounter, Performed: Encounter Inpatient SATISFIES ALL (Length of Stay <= 120 days)

ends during "Measurement Period"

- \$Occurrence A of \$EncounterInpatient =
  - Encounter, Performed: Encounter Inpatient SATISFIES ALL
    - ✓ (Length of Stay <= 120 days)</li>
    - ends during "Measurement Period"

O START		O STOP	
01/01/2012	12:00 PM	01/01/2012	12:15 PM

LOINC: 54108-6 ×		
Code Set 👻		+
Newborn Hearing S	Screen Left 🗙	
E Coded 👻		+
		•
E Coded 🗸		+
•		+
NOT PERFORMED	)	
Medical Reasons		•
		•

O START		O STOP	
01/01/2012	12:15 PM	01/01/2012	12:30 PM
CODES			
LOINC: 54109-	4 ×		
Code Set 👻			•
III RESULT			
Newborn Heari	ng Screen Right 🗙	Pass Or Refer 🗙	
≣ Coded 🗸	-		•

V V V V V V V V V V V V V V V V V
NOT PERFORMED

~*	NoLeftScreen	n RightScree	PASS~
	Population	Expected	Actual
~	IPP	1	1
~	DENOM	1	1
~	DENEX	0	0
~	NUMER	0	0
~	DENEXCEP	0	0

**%** Dash

④ Measure Period: 2012 ■ CMS31v3

CMS31V3

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HEARING SCREENING PRIOR TO HOSPITAL DISCHARGE

Episode(s) of Care:

Occurrence A of SEncounterInpatient

This measure assesses the proportion of births that have been screened for hearing loss before hospital discharge.

Complexity:

AND:	✓ Occurrence A: SOccurrence A of SEncounterInpatient ends during "Measurement Period"	
✓ AND		
VU 🗸	IION OF.	
	Diagnosis, Active: Liveborn Newborn Born in Hospital	
	Diagnosis, Active: Livebirth	
~	starts during 🗸 Occurrence A: \$Occurrence A of \$EncounterInpatient	
✓Denomi	nator:	~
None		
enominato	or Exclusions:	
	r Exclusions:	
OR :	r Exclusions:	
R OR :		
■ OR : ■ AND : ■ INT	ERSECTION OF:	
■ OR : ■ AND : ■ INT ■ INT		
■ OR : ■ AND : ■ INT ■ INT	ERSECTION OF: Docurrence A: SOccurrence A of \$EncounterInpatient	
■ OR : ■ AND : ■ INT ■ INT ■ AND :	ERSECTION OF: Docurrence A: SOccurrence A of \$EncounterInpatient	
OR :     * AND :     * INT     * OR     * AND :     * AND :     * AND :     * AND :	ERSECTION OF: Decurrence A: SOccurrence A of SEncounterInpatient Encounter, Performed: Encounter Inpatient ( Discharge Status : Patient Expired )	
OR :     * AND :     * INT     * OR     * AND :     * AND :     * AND :     * AND :	ERSECTION OF: Decurrence A: SOccurrence A of SEncounterInpatient Encounter, Performed: Encounter Inpatient ( Discharge Status : Patient Expired ) D NOT: JNION OF: X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )	
OR :     * AND :     * INT     * OR     * AND :     * AND :     * AND :     * AND :	ERSECTION OF: Occurrence A: SOccurrence A of SEncounterInpatient Encounter, Performed: Encounter Inpatient ( Discharge Status : Patient Expired ) O NOT: JNION OF:	

#### ×Numerator:

 $\sim$ 

X AND : × UNION OF:

- X Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )
   X Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)
   X during \* Occurrence A: \$Occurrence A of \$EncounterInpatient

× AND : VINION OF:

Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )
 Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reasons)

✓ during ★ Occurrence A: \$Occurrence A of \$EncounterInpatient

×Denominator Exceptions:

None

Variables:	~
\$EncounterInpatient =	
Encounter, Performed: Encounter Inpatient SATISFIES ALL	
(Length of Stay <= 120 days)	
ends during "Measurement Period"	
\$Occurrence A of \$EncounterInpatient =	
Encounter, Performed: Encounter Inpatient SATISFIES ALL	
✓ (Length of Stay <= 120 days)	
✓ ends during "Measurement Period"	

~



#### PATIENT DESCRIPTION

Case Number: 0	09		
DATE OF BIRTH		DATE OF DEATH	
01/01/2012	10:00 AM	01/02/2012	8:00 AM
RACE		GENDER	
American India	an or Alaska Nativ	Male	-

American mulan or Alasia i		IVIAIC	
ETHNICITY		PAYER	
Not Hispanic or Latino	-	Other	•

>ي	ENCOUNTER	DATE	>
	Performed: Encounter Inpatient	01/01/2012 - 01/02/2012	
(ড) <	DIAGNOSIS	DATE	>
$\mathbf{Y}$	DIAGNUSIS	DATE	
	Active: Liveborn Newborn Born in Hospital	01/01/2012 - 01/01/2012	
(ড) <	DIAGNOSTIC STUDY RESULT	DATE	>
$\mathbf{Y}$			÷
	Result: Newborn Hearing Screen Right	01/01/2012 - 01/01/2012	

O START		O STOP	
01/01/2012	12:15 PM	01/01/2012	12:30 PM
CODES			
LOINC: 54109-4	L×		
Code Set 👻			
III RESULT			
Newborn Hearin	ng Screen Right 🗙	Pass Or Refer 🗙	
E Coded 🗸			•
III FIELD VALUE			

+ NOT PERFORMED	- E		
		+	
		NOT PERFORMED	
		•	

~	NoRightScreen LeftScree ned		PASS~
	Population	Expected	Actual
~	IPP	1	1
~	DENOM	1	1
~	DENEX	0	0
~	NUMER	0	0
~	DENEXCEP	0	0

④ Measure Period: 2012 Sector CMS31v3

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#### HEARING SCREENING PRIOR TO HOSPITAL DISCHARGE

#### Episode(s) of Care:

Occurrence A of \$EncounterInpatient

This measure assesses the proportion of births that have been screened for hearing loss before hospital discharge.

Complexity: 🛇

✓Initial Population:	
✓ AND : ✓ Occurrence A: SOccurrence A of SEncounterInpatient ends during "Measurement Period	od"
✓ AND :	
VINION OF:	
✓ Diagnosis, Active: Liveborn Newborn Born in Hospital	
× Diagnosis, Active: Livebirth	
✓ starts during ✓ Occurrence A: \$Occurrence A of \$EncounterInpatient	
· · ··································	
✓Denominator:	
None	
None	
Denominator Exclusions:	
* OR :	
* AND :	
* INTERSECTION OF:	
Occurrence A: SOccurrence A of SEncounterInpatient     Security Defermed EncounterInpatient	
Encounter, Performed: Encounter Inpatient (Discharge Status : Patient Expired)	
✓ AND NOT:	
✓ UNION OF	
✓ Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer)	
Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)	
✓ during ★ Occurrence A: \$Occurrence A of \$EncounterInpatient	
Numerator:	
V V	
x AND :	
VINION OF:	
<ul> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer)</li> </ul>	
★ Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)	
during # Occurrence A: \$Occurrence A of \$EncounterInpatient	
X AND :	
× UNION OF	
★ Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )	
Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reasons)	

#### x during \* Occurrence A: \$Occurrence A of \$EncounterInpatient

×Denominator Exceptions:

None

### Variables: \$EncounterInpatient = Encounter, Performed: Encounter Inpatient SATISFIES ALL (Length of Stay <= 120 days) ends during "Measurement Period" \$Occurrence A of \$EncounterInpatient = Encounter, Performed: Encounter Inpatient SATISFIES ALL Length of Stay <= 120 days )</li> ends during "Measurement Period" PATIENT DESCRIPTION Case Number: 010 DATE OF BIRTH DATE OF DEATH Θ 10:00 AM 01/02/2012 8:00 AM 01/01/2012 RACE GENDER American Indian or Alaska Nativ Male Ŧ

~

ETHNICITY		PAYER	
Not Hispanic or Latino	-	Other	•

	ENCOUNTER	DATE	>
	Performed: Encounter Inpatient	01/01/2012 - 01/02/2012	
ণ্ড <	DIAGNOSIS Active: Liveborn Newborn Born in Hospital	<b>DATE</b> 01/01/2012 - 01/01/2012	>
୧୬ <	DIAGNOSTIC STUDY RESULT Result: Newborn Hearing Screen Left	<b>DATE</b> 01/01/2012 – 01/01/2012	>

O START		O STOP	
01/01/2012	12:00 PM	01/01/2012	12:15 PM
CODES			
LOINC: 54108-6	×		
Code Set 👻			•
Int RESULT			
Pass Or Refer 🗙	Newborn Hea	aring Screen Left 🗙	
E Coded 🗸			-
III FIELD VALUE			
≣ Coded →			

		• +
NOT PERFORME	D	
		•

~*	NoRightScreen NoLeftScr eened		PASS~
	Population	Expected	Actual
~	IPP	1	1
~	DENOM	1	1
~	DENEX	1	1
~	NUMER	0	0
~	DENEXCEP	0	0

Ø Measure Period: 2012 ■ CMS31v3

7 Dashl

\$



HEARING SCREENING PRIOR TO HOSPITAL DISCHARGE

#### Episode(s) of Care:

Occurrence A of \$EncounterInpatient

This measure assesses the proportion of births that have been screened for hearing loss before hospital discharge.



None

✓Denominator Exclusions:	~
✓ OR :	
🗸 AND :	
✓ INTERSECTION OF.	
<ul> <li>Occurrence A: \$Occurrence A of \$EncounterInpatient</li> </ul>	
<ul> <li>Encounter, Performed: Encounter Inpatient (Discharge Status : Patient Expired)</li> </ul>	
✓ AND :	
V AND NOT:	
× UNION OF:	
<ul> <li>Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer)</li> <li>Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)</li> </ul>	
× during ✓ Occurrence A: \$Occurrence A of \$EncounterInpatient	
Numerator:	~
AND :	
UNION OF:	
Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer)	
Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)	
during Occurrence A: \$Occurrence A of \$EncounterInpatient	
AND :	

UNION OF:

- Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )
   Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reasons) during Occurrence A: SOccurrence A of SEncounterInpatient

Denominator Exceptions:

None

#### Variables:

#### \$EncounterInpatient =

Encounter, Performed: Encounter Inpatient SATISFIES ALL (Length of Stay <= 120 days) ends during "Measurement Period" Soccurrence A of SEncounterInpatient = Encounter, Performed: Encounter Inpatient SATISFIES ALL

- ✓ (Length of Stay <= 120 days)</p>
- ends during "Measurement Period"

# 2

#### PATIENT DESCRIPTION

Case Number: 0	11		
DATE OF BIRTH		LIVING STATUS	
01/01/2012	10:00 AM	Deceased	
RACE		GENDER	

~

 $\sim$ 

American Indian or Alaska Na	ti' 💌	Male	•
ETHNICITY		PAYER	
Not Hispanic or Latino	-	Other	-

	ENCOUNTER Performed: Encounter Inpatient	<b>DATE</b> 01/01/2012 - 01/02/2012	>
(y) (y)	DIAGNOSIS Active: Liveborn Newborn Born in Hospital	<b>DATE</b> 01/01/2012 – 01/01/2012	>
•	Encounter: Performed: Encounter Inpa	atient	~

O START		O STOP	
01/01/2012	8:00 AM	01/02/2012	8:00 AM
CODES			
SNOMED-CT: 8	715000 🗙		
Code Set	•		•
DISCHARGE_S	TATUS: Patient Ex	pired 🗙	
ADMISSION_D	ATETIME: 01/01/2	012 8:00 AM 🗙	
DISCHARGE_D	ATETIME: 01/02/2	2012 9:00 AM 🗙	
E Coded 🗸			•
	;		
-			

NOT PERFORMED



~*	NotExcluded DiedAfterBot ed	PASS∨	
	Population	Expected	Actual
~	IPP	1	1
~	DENOM	1	1
~	DENEX	0	0
~	NUMER	1	1
~	DENEXCEP	0	0

④ Measure Period: 2012 See CMS31v3

4 Dasl



HEARING SCREENING PRIOR TO HOSPITAL DISCHARGE

#### Episode(s) of Care:

Occurrence A of \$EncounterInpatient

This measure assesses the proportion of births that have been screened for hearing loss before hospital discharge.

Complexity: 💙



✓ Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )

★ Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reasons)
 ✓ during ✓ Occurrence A: \$Occurrence A of \$EncounterInpatient

Denominator Exceptions:

 $\sim$ 

None

#### Variables:

\$EncounterInpatient =

 $\sim$ 

## Encounter, Performed: Encounter Inpatient SATISFIES ALL (Length of Stay <= 120 days) ends during "Measurement Period" \$Occurrence A of \$EncounterInpatient = Encounter, Performed: Encounter Inpatient SATISFIES ALL (Length of Stay <= 120 days)</li> ends during "Measurement Period" PATIENT DESCRIPTION Case Number: 012 DATE OF BIRTH DATE OF DEATH 0 01/01/2012 01/02/2012 10.00 AM 8-00 AM

01/01/2012 10.00 AW	01/02/2012 0.00 AW
RACE	GENDER
American Indian or Alaska Nativ 💌	Male
ETHNICITY	PAYER
Not Hispanic or Latino	Other 🔹

. <b>—</b> г			
	ENCOUNTER	DATE	>
	Performed: Encounter Inpatient	01/01/2012 - 01/02/2012	
<b>W</b>	DIAGNOSIS	DATE	>
	Active: Liveborn Newborn Born in Hospital	01/01/2012 - 01/01/2012	
( <b>P</b> )	DIAGNOSTIC STUDY RESULT	DATE	>
	Result: Newborn Hearing Screen Left	01/01/2012 - 01/01/2012	
6			
$\mathbf{\Psi}$	DIAGNOSTIC STUDY RESULT	DATE	>
	Result: Newborn Hearing Screen Right	01/01/2012 - 01/01/2012	
L			

O START		O STOP	
01/01/2012	12:00 PM	01/01/2012	12:15 PM
CODES			
LOINC: 54108-0	5 <b>x</b>		
Code Set 👻			•
Code Set -			

Image: Study Result: Result: Newborn Hearing Screen Right     ② START   ③ START   ③ START   ③ STOP   ①1/01/2012   ①   □   □   □   □   □   □   □   □   □   □   □   □   □   □   □   □   □   □   □    □   □ <tr< th=""><th></th><th>g Screen Right 🗙</th><th></th><th></th></tr<>		g Screen Right 🗙		
 IIII Coded AIL REFERENCES  INOT PERFORMED Diagnostic Study Result: Result: Newborn Hearing Screen Right O STOP 01/01/2012 12:15 PM 01/01/2012 12:30 PM I UNDEFINED 01/01/2012 12:30 PM I UNDEFINED Code Set I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	≣ Coded 🗸			•
All REFERENCES         • <	III FIELD VALUE			
All REFERENCES       • <				
NOT PERFORMED   Diagnostic Study Result: Result: Newborn Hearing Screen Right O STOP 01/01/2012 12:15 PM 01/01/2012 12:30 PM 01/01/201 12:0 12:0 12:0 12:0 12:0 12:0 12:0 1	E Coded 🗸			•
NOT PERFORMED  Diagnostic Study Result: Result: Newborn Hearing Screen Right  O START  O STOP  01/01/2012 12:15 PM  01/01/2012 12:30 PM  UNDEFINED				
Diagnostic Study Result: Result: Newborn Hearing Screen Right   ③ START ③ STOP   01/01/2012 12:15 PM 01/01/2012 12:30 PM   Image: Code Set Image: Code Set Image: Code Screen Right Image: Code Right Im				-
③ START       ③ STOP         01/01/2012       12:15 PM       01/01/2012       12:30 PM         □ UNDEFINED       □ UNDEFINED          ✓> CODES         LOINC: 54109-4 ×           Code Set •        •         Luin RESULT       v          Newborn Hearing Screen Right ×       Pass Or Refer ×       •         Image: Coded •        •	NOT PERFORM	ED		
③ START       ③ STOP         01/01/2012       12:15 PM       01/01/2012       12:30 PM         □ UNDEFINED       □ UNDEFINED          ✓> CODES         LOINC: 54109-4 ×				
③ START       ③ STOP         01/01/2012       12:15 PM       01/01/2012       12:30 PM         □ UNDEFINED       □ UNDEFINED          ✓> CODES         LOINC: 54109-4 ×           Code Set •        •         Luin RESULT       v          Newborn Hearing Screen Right ×       Pass Or Refer ×       •         Image: Coded •        •				
③ START       ③ STOP         01/01/2012       12:15 PM       01/01/2012       12:30 PM         □ UNDEFINED       □ UNDEFINED          ✓> CODES         LOINC: 54109-4 ×	Diagnostic Study	Result: Result: New	born Hearing Screen I	Riaht
UNDEFINED  UNDEFINED  UNDEFINED  LOINC: 54109-4 ×  Code Set    Code Set   Code Set   Coded  Coded				
CODES LOINC: 54109-4 × Code Set • • Int RESULT Newborn Hearing Screen Right × Pass Or Refer × Image: Coded • • Int FIELD VALUE Int FIELD VALUE Int REFERENCES Int REFERENCES Int REFERENCES	01/01/2012	12:15 PM	01/01/0010	12-20 DM
LOINC: 54109-4 × Code Set		12.131 1	01/01/2012	12.30 FIV
Code Set     Lul RESULT     Newborn Hearing Screen Right ×     Pass Or Refer ×     Image: Coded         Image: Coded     Image: Coded     Image: Coded     Image: Coded     Image: Coded     Image: Coded     Image: Coded     Image: Coded     Image: Coded     Image: Coded		12.131 W		12.30 FW
Init RESULT   Newborn Hearing Screen Right ×   Pass Or Refer ×     Image: Coded Image:		12.131 WI		12.30 FW
Newborn Hearing Screen Right x Pass Or Refer x     Image: Coded     Image: Coded <td>&gt;CODES</td> <td></td> <td></td> <td>12.30 FW</td>	>CODES			12.30 FW
Image: Coded          Image: Ima	CODES LOINC: 54109-4			T2.30 FW
Image: Image	CODES LOINC: 54109-4			T2.30 F₩
 I Coded ▼ ▼ III REFERENCES ▼ ▼	CODES LOINC: 54109-4 Code Set  IMI RESULT	× 		T2.30 F₩
Image: Coded        Image: Ima	CODES LOINC: 54109-4 Code Set   Init RESULT Newborn Hearin	× 		▼
<b>□ I III</b> REFERENCES       	CODES LOINC: 54109-4 Code Set   Interface Local Code Set Code	× 		▼
•	CODES LOINC: 54109-4 Code Set • Lul RESULT Newborn Hearin E Coded • Lul FIELD VALUE	× 		▼ 12.30 FIM
	CODES LOINC: 54109-4 Code Set  C	× 		▼ 12.30 FIM
	CODES LOINC: 54109-4 Code Set  C	× 		▼
	CODES LOINC: 54109-4 Code Set  Code Set Code Set Coded C	× 		▼ 12.30 FIM



~	<ul> <li>NexTracked</li> </ul>					
	DiedAfterLeft		PASS∨			
	Population	Expected	Actual			
~	IPP	I	1			
~	DENOM	1	1			
~	DENEX	0	0			
~	NUMER	0	0			
~	DENEXCEP	0	0			
BON	INIE					∱ Dashb
		CMS31v3				
-	CMC211/2					*
	CMS31V3					*
	olexity: 📀					
~li	nitial Population:					~
	enominator:	✓ Occurrence A: SO	courrence A of SE	ounterInpatient		
Non						~
						~
<b>*</b> De	nominator Exclu	Isions:				¥ 1
	AND : AND : AND : INTERSECT Coccurre AND : AND NOT: AND NOT: Diag X Diag X Diag	TON OF: nce A: \$Occurrenc ter, Performed: En	counter Inpatie formed: Newbor prmed: Newbor	t ( Discharge Sta Hearing Screen Hearing Screen	Left (result : Pa Right (result : P	ss Or Refer )
*	AND : AND : AND : INTERSECT Coccurre AND : AND NOT: AND NOT: Diag X Diag X Diag	TON OF: nce A: SOccurrenc ter, Performed: En DF: nostic Study, Perf nostic Study, Perf	counter Inpatie formed: Newbor prmed: Newbor	t ( Discharge Sta Hearing Screen Hearing Screen	Left (result : Pa Right (result : P	ss Or Refer )

×Denominator Exceptions:

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None

#### Variables:

#### $\mathbf{v}$

#### \$EncounterInpatient =

Encounter, Performed: Encounter Inpatient SATISFIES ALL (Length of Stay <= 120 days) ends during "Measurement Period" SOccurrence A of \$EncounterInpatient =

- Encounter, Performed: Encounter Inpatient SATISFIES ALL
  - ✓ (Length of Stay <= 120 days)</p>
  - ends during "Measurement Period"

10:00 AM

01/01/2012

DATE OF DEATH		8
01/02/2012	8:00 AM	

RACE	GENDER	
American Indian or Alaska Nati	Male	-
ETHNICITY	PAYER	

- 1				
6	)<	ENCOUNTER Performed: Encounter Inpatient	<b>DATE</b> 01/01/2012 - 01/02/2012	>
	L			
(4	りく	DIAGNOSIS	DATE	>
		Active: Liveborn Newborn Born in Hospital	01/01/2012 - 01/01/2012	
(4	りく	DIAGNOSTIC STUDY RESULT	DATE	>
		Result: Newborn Hearing Screen Left	01/01/2012 - 01/01/2012	

O START		O STOP	
01/01/2012	12:00 PM	01/01/2012	12:15 PM
CODES			
LOINC: 54108-	б ж		
Code Set 👻			•
Newborn Hear	ing ScreenLeft 🗙	Pass Or Refer 🗙	
I≣ Coded →	-		-
III FIELD VALUE			

I≣ Coded	+
III REFERENCES	
	• +
NOT PERFORMED	
	•

~	NotExcludedFromDenom DiedAfterRightScreening		PASS~
	Population	Expected	Actual
~	IPP	1	1
~	DENOM	1	1
~	DENEX	1	1
~	NUMER	0	0
~	DENEXCEP	0	0

② Measure Period: 2012 Sector 2012 Sec



HEARING SCREENING PRIOR TO HOSPITAL DISCHARGE

#### Episode(s) of Care:

Occurrence A of \$EncounterInpatient

This measure assesses the proportion of births that have been screened for hearing loss before hospital discharge.

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✓Initial Population:

AND: 
Occurrence A: SOccurrence A of SEncounterInpatient ends during "Measurement Period"
AND:
UNION OF. Viagnosis, Active: Liveborn Newborn Born in Hospital
 X Diagnosis, Active: Livebirth
 ✓ starts during ✓ Occurrence A: \$Occurrence A of \$EncounterInpatient

✓Denominator:

None

Denominator Exclusions:	
✓ OR :	
✓ AND :	
✓ INTERSECTION OF.	
<ul> <li>Occurrence A: \$Occurrence A of \$EncounterInpatient</li> </ul>	
<ul> <li>Encounter, Performed: Encounter Inpatient (Discharge Status : Patient Expired)</li> </ul>	
✓ AND :	
✓ AND NOT:	
× UNION OF	_
✗ Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Ref	er)
Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Re during of Occurrence A: Science and Science	efer )
<ul> <li>➤ Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Re</li> <li>➤ during    Occurrence A: SOccurrence A of SEncounterInpatient</li> </ul>	efer)
	efer )
× during ✓ Occurrence A: \$Occurrence A of \$EncounterInpatient	
★ during ✓ Occurrence A: SOccurrence A of SEncounterInpatient	
x during   Occurrence A: SOccurrence A of SEncounterinpatient  umerator:  AND: UNION OF: Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )	
x during   Occurrence A: SOccurrence A of SEncounterInpatient  umerator:  AND: UNION OF: Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer ) Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)	
x during   Occurrence A: SOccurrence A of SEncounterInpatient  umerator:  AND: UNION OF: Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer ) Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons during Occurrence A: SOccurrence A of SEncounterInpatient	
AND:     UNION OF:     Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )     Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons     during Occurrence A: SOccurrence A of SEncounterInpatient AND:	
x during   Occurrence A: SOccurrence A of SEncounterInpatient  umerator:  AND: UNION OF: Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer ) Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons during Occurrence A: SOccurrence A of SEncounterInpatient AND: UNION OF:	
AND:     UNION OF:     Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )     Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons     during Occurrence A: SOccurrence A of SEncounterInpatient AND:	)

#### Denominator Exceptions:

None

#### Variables:

v

## \$EncounterInpatient =

Encounter, Performed: Encounter Inpatient SATISFIES ALL (Length of Stay <= 120 days)

ends during "Measurement Period"

#### \$Occurrence A of \$EncounterInpatient =

Encounter, Performed: Encounter Inpatient SATISFIES ALL

- ✓ (Length of Stay <= 120 days)</p>
- ends during "Measurement Period"



#### PATIENT DESCRIPTION

Case Number: (	014			
DATE OF BIRTH		DATE OF DEATH		::. 3
01/01/2012	10:00 AM	01/02/2012	8:00 AM	
RACE		GENDER		

RACE

American Indian or Alaska Nati <sup>,</sup> 💌	Male	•
ETHNICITY	PAYER	
Not Hispanic or Latino	Other	-

- 1				
	•)<	ENCOUNTER Performed: Encounter Inpatient	<b>DATE</b> 01/01/2012 - 01/02/2012	>
9	b)<	DIAGNOSIS	DATE	>
		Active: Liveborn Newborn Born in Hospital	01/01/2012 - 01/01/2012	
Ç	<u>ک</u> و	DIAGNOSTIC STUDY RESULT	DATE	>
		Result: Newborn Hearing Screen Left	01/01/2012 - 01/01/2012	

O START		O STOP	
01/01/2012	8:00 AM	01/02/2012	8:00 AM
CODES			
SNOMED-CT: 8	715000 ×		
Code Set	-		
III FIELD VALUE	I.		
DISCHARGE_S	TATUS: Patient Ex	pired 🗙	
ADMISSION_D	ATETIME: 01/01/2	2012 8:00 AM 🗙	
DISCHARGE_D	ATETIME: 01/02/2	2012 9:00 AM 🗙	

REFERENCES			
•			•
NOT PERFORME	D		
			L
Diagnastic Ctude	Peeule Docult. No.	where Hearing Corean	l oft
<ul> <li>START</li> </ul>	Result: Result: Nev	wborn Hearing Screen	Leit
01/01/2012	12:00 PM	01/01/2012	12:15 PM
CODES			
LOINC: 54108-6	ō×		
Code Set 👻			
Mewborn Hearin	ng Screen Right 🗙		
NewDonn Hearn			
E Coded 👻			
III FIELD VALUE			
E Coded 🗸			
	r [		
🔻			
•			

<b>~</b> 4	Notin Measu	rePeriod	PASS~	
	Population	Expected	Actual	
~	IPP	0	0	
~	DENOM	0	0	
~	DENEX	0	0	
~	NUMER	0	0	
~	DENEXCEP	0	0	

🕑 Measure Period: 2012 🚿 📰 CMS31v3

# ECMS31V3

HEARING SCREENING PRIOR TO HOSPITAL DISCHARGE

#### Episode(s) of Care:

Occurrence A of \$EncounterInpatient

This measure assesses the proportion of births that have been screened for hearing loss before hospital discharge.



## ×Initial Population: $\sim$ ★ AND : ★ Occurrence A: \$Occurrence A of \$EncounterInpatient ends during "Measurement Period" X AND : × UNION OF: 🗙 Diagnosis, Active: Liveborn Newborn Born in Hospital × Diagnosis, Active: Livebirth x starts during X Occurrence A: \$Occurrence A of \$EncounterInpatient Denominator: V None **Denominator Exclusions:** $\sim$ OR: AND: INTERSECTION OF: Occurrence A: \$Occurrence A of \$EncounterInpatient Encounter, Performed: Encounter Inpatient (Discharge Status : Patient Expired) AND: AND NOT: UNION OF:

7 Dash

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- Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )
- Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer ) during Occurrence A: \$Occurrence A of \$EncounterInpatient

#### Numerator:

#### AND:

UNION OF:

- Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )
- Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons) during Occurrence A: SOccurrence A of SEncounterInpatient

#### AND:

UNION OF:

- Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )
- Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reasons) during Occurrence A: SOccurrence A of SEncounterInpatient

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#### **Denominator Exceptions:**

None

#### Variables:

#### \$EncounterInpatient =

Encounter, Performed: Encounter Inpatient SATISFIES ALL (Length of Stay <= 120 days)

#### ends during "Measurement Period"

× \$Occurrence A of \$EncounterInpatient =

Encounter, Performed: Encounter Inpatient SATISFIES ALL

🗙 ( Length of Stay <= 120 days )

× ends during "Measurement Period"

Case Number:	015		
DATE OF BIRTH		LIVING STATUS	
12/01/2011	8:00 AM	Deceased	
RACE		GENDER	
American Indi	an or Alaska Nati 💌	Male	
ETHNICITY		PAYER	
Not Hispanic	or Latino	Other	-

~	RightReason	RightReason LeftReason	
	Population	Expected	Actual
~	IPP	1	1
~	DENOM	1	1
~	DENEX	1	1
~	NUMER	0	0
~	DENEXCEP	0	0

O Measure Period: 2012 ■ CMS31v3

#### ECMS31V3

HEARING SCREENING PRIOR TO HOSPITAL DISCHARGE

Episode(s) of Care: • Occurrence A of SEncounterInpatient

This measure assesses the proportion of births that have been screened for hearing loss before hospital discharge.

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D:  Occurrence A: \$Occurrence A of \$EncounterInpatient ends during "Measurement Period"	
D:	
UNION OF:	
<ul> <li>Diagnosis, Active: Liveborn Newborn Born in Hospital</li> </ul>	
🗙 Diagnosis, Active: Livebirth	
starts during  Occurrence A: \$Occurrence A of \$EncounterInpatient	
ninator:	~
	D: UNION OF:

✓Denominator Exclusions:	~
✓ OR :	
V AND :	
✓ INTERSECTION OF.	
<ul> <li>Occurrence A: \$Occurrence A of \$EncounterInpatient</li> </ul>	
<ul> <li>Encounter, Performed: Encounter Inpatient (Discharge Status : Patient Expired)</li> </ul>	
✓ AND :	
V AND NOT:	
× UNION OF:	
Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )	
Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )	
★ during   Occurrence A: \$Occurrence A of \$EncounterInpatient	
Numerator:	~
AND :	
UNION OF:	
Diagnostic Study, Performed: Newborn Hearing Screen Left (result : Pass Or Refer )	
Diagnostic Study, Performed: Newborn Hearing Screen Left (Not Done: Medical Reasons)	
during Occurrence A: SOccurrence A of SEncounterInpatient	
AND :	
UNION OF:	
<ul> <li>Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer)</li> </ul>	
Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reasons)	
during Occurrence A: SOccurrence A of SEncounterInpatient	
Denominator Exceptions:	~

None

#### Variables:

 $\sim$ 

# \$EncounterInpatient = Encounter, Performed: Encounter Inpatient SATISFIES ALL (Length of Stay <= 120 days) ends during "Measurement Period" \$Occurrence A of \$EncounterInpatient = Encounter, Performed: Encounter Inpatient SATISFIES ALL \$\$(Length of Stay <= 120 days)\$</pre>

ends during "Measurement Period"



#### PATIENT DESCRIPTION

Case Number: 016

DATE OF BIRTH

LIVING STATUS

01/01/2012 10:00 AM

Deceased

RACE	GENDER	
American Indian or Alaska Nati	Male	-
ETHNICITY	PAYER	

	Г			
	<b>)</b> <	ENCOUNTER	DATE	>
		Performed: Encounter Inpatient	01/01/2012 - 01/02/2012	
ওি	$\mathcal{O}$	DIAGNOSIS	DATE	>
		Active: Liveborn Newborn Born in	01/01/2012 - 01/01/2012	
		Hospital		
	٦J			
Ca Ca	ワト	DIAGNOSTIC STUDY RESULT	DATE	>
		Result: Newborn Hearing Screen	01/01/2012 - 01/01/2012	
		Left		
	, Г			
હ	$\mathcal{Y}$	DIAGNOSTIC STUDY RESULT	DATE	>
		Result: Newborn Hearing Screen	01/01/2012 - 01/01/2012	
		Right		

O START		② STOP	
01/01/2012	8:00 AM	01/02/2012	8:00 AM
CODES			
SNOMED-CT: 8	715000 🗙		
Code Set			•
III FIELD VALUE			
	TATUS: Patient Ex	n in a di si s	

		20.007.007	
DISCHARGE_DATE	ETIME: 01/02/201	2 9:00 AM 🗙	
E Coded 🗸			•
🔻			•
	U.		Г
Diagnostic Study	Result: Result: Nev	wborn Hearing Screen	Left
O START		O STOP	
01/01/2012	12:00 PM	01/01/2012	12:15 PM
>CODES			
LOINC: 54108-6			
LUINC. 54100-0	×		
Code Set 👻			-
III RESULT			
	g Screen Left 🗙		
Newborn Hearin	g Screen Left 🗙		
	g Screen Left 🗙		•
Newborn Hearin	g Screen Left 🗙		•
Newborn Hearin	g Screen Left 🗙		•
Newborn Hearin	g Screen Left 🗙		•
Newborn Hearin	g Screen Left 🗙		•
Newborn Hearin	g Screen Left 🗙		•
Newborn Hearin			• •
Newborn Hearin	  1ED		

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O START		⊙ STOP	
01/01/2012	12:15 PM	01/01/2012	12:30 PM
CODES			
LOINC: 54109-	4 ×		
Code Set 👻			• +
III RESULT			
Newborn Heari	ng Screen Right 🗙		
E Coded 🗸	-		- +
III FIELD VALUE			
≣ Coded 🗸	-		• +
	;		
			· +
NOT PERFOR	MED		

**V** 

~*	RightReasor d	n LeftScreene	PASS∨
	Population	Expected	Actual
~	IPP	1	1
~	DENOM	1	1
~	DENEX	0	0
~	NUMER	1	1
~	DENEXCEP	0	0



#### VINION OF:

★ Diagnostic Study, Performed: Newborn Hearing Screen Right (result : Pass Or Refer )
 ✓ Diagnostic Study, Performed: Newborn Hearing Screen Right (Not Done: Medical Reasons)
 ✓ during ✓ Occurrence A: \$Occurrence A of \$EncounterInpatient

Denominator Exceptions:

 $\sim$ 

None

iables:				
EncounterInpatie	ent =			
-		Inpatient SATISFIES ALL		
· · ·	Stay <= 120 days)			
	"Measurement Per			
	of \$EncounterInpat	lient = Inpatient SATISFIES ALL		
	of Stay <= 120 days			
	ing "Measurement I			
<ul> <li>ends dur</li> </ul>	ng measurement	renou		
PATIENT DESCR		renou		
	PTION	renou		
PATIENT DESCR	PTION	renou		
PATIENT DESCR	PTION	LIVING STATUS	.11	

RACE		GENDER	
American Indian or Alaska Nati	-	Male	•
ETHNICITY		PAYER	

<u>(</u>	ENCOUNTER	DATE	>
	Performed: Encounter Inpatient	01/01/2012 - 01/02/2012	
<b>S</b>	DIAGNOSIS	DATE	>
	Active: Liveborn Newborn Born in	01/01/2012 - 01/01/2012	
	Hospital		
$\mathbf{Q}$	DIAGNOSTIC STUDY RESULT	DATE	>
	Result: Newborn Hearing Screen	01/01/2012 - 01/01/2012	
	Left		
$\mathbf{\nabla}$	DIAGNOSTIC STUDY RESULT	DATE	>
	Result: Newborn Hearing Screen Right	01/01/2012 - 01/01/2012	
	night		

O START		O STOP	
01/01/2012	8:00 AM	01/02/2012	8:00 AM
CODES			
SNOMED-CT: 8	715000 🗙		
Code Set			•
III FIELD VALUE			
DISCHARGE S	TATUS: Patient Ex	pired 🗙	
010010102_0			

i≣ Coded →		•
III REFERENCES		
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O START		O STOP	
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O START		O STOP	
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E Coded 👻			•
III FIELD VALUE			
E Coded 👻			-
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NOT PERFOR	MED		
Medical Reason	ns		