#### MEDICARE COVERAGE OF LABORATORY TESTING

Please remember when ordering laboratory tests that are billed to Medicare/Medicaid or other federally funded programs, the following requirements apply:

- Only tests that are medically necessary for the diagnosis or treatment of the patient should be ordered.
   Medicare does not pay for screening tests except for certain specifically approved procedures and may not pay for non-FDA approved tests or those tests considered experimental.
- If there is reason to believe that Medicare will not pay for a test, the patient should be informed. The patient should then sign an Advance Beneficiary Notice (ABN) to indicate that he or she is responsible for the cost of the test if Medicare denies payment.
- The ordering physician must provide an ICD-10 diagnosis code or narrative description, if required by the fiscal intermediary or carrier.
- Organ- or disease-related panels should be billed only when all components of the panel are medically necessary.
- Both ARUP- and client-customized panels should be billed to Medicare only when every component of the customized panel is medically necessary.
- Medicare National Limitation Amounts for CPT codes are available through the Centers for Medicare & Medicaid Services (CMS) or its intermediaries. Medicaid reimbursement will be equal to or less than the amount of Medicare reimbursement.

The CPT Code(s) for test(s) profiled in this bulletin are for informational purposes only. The codes reflect our interpretation of CPT coding requirements, based upon AMA guidelines published annually. CPT codes are provided only as guidance to assist you in billing. ARUP strongly recommends that clients reconfirm CPT code information with their local intermediary or carrier. CPT coding is the sole responsibility of the billing party.

The regulations described above are only guidelines. Additional procedures may be required by your fiscal intermediary or carrier.

Hotline Page #	Test Number	Summary of Changes by Test Name	Name Change	Methodology	Performed/Reported Schedule	Specimen Requirements	Reference Interval	Interpretive Data	Note	CPT Code	Component Change	Other Interface Change	New Test	Inactive
2	3000136	Benzene Quantitative - Whole Blood			X	X								
2	3000967	Beryllium Quantitative, Serum or Plasma		X	X									
3	0040003	CBC with Platelet Count and Automated Differential				X						X		
7	3003606	Differential, Manual											X	
9	3000894	Hereditary Hemolytic Anemia Cascade								X				
10	0040005	Manual Differential												X
9	<u>3000714</u>	Sotalol Quantitation, Serum/Plasma		X	X	X								



3000136 Benzene Quantitative - Whole Blood BENZE BLD

Methodology: Quantitative Gas Chromatography

Performed: Varies Reported: 5-8 days

Specimen Required: Collect: Gray (Potassium Oxalate/Sodium Fluoride).

Specimen Preparation: Transport 2 mL whole blood in the original collection tube. (Min: 0.7 mL)

Test is not performed at ARUP; separate specimens must be submitted when multiple tests are ordered.

Storage/Transport Temperature: Refrigerated. Also acceptable: Frozen.

Stability (collection to initiation of testing): Ambient: Unacceptable; Refrigerated: 2 months; Frozen: 3 weeks

3000967 Beryllium Quantitative, Serum or Plasma BERYLLI SP

Methodology: Quantitative Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)

Performed: Varies Reported: 8-11 days



0040003

#### **CBC** with Platelet Count and Automated Differential

CBCAD



Time Sensitive

 $\textbf{Specimen Required:} \ \underline{\textbf{Collect:}} \ Lavender \ \textbf{(EDTA)} \ \textbf{AND} \ unstained \ whole \ blood \ smears.$ 

Specimen Preparation: Transport 3 mL whole blood AND 2 unstained whole blood smears. (Min: 0.5 mL. Tube must contain at least

0.25 mL of specimen AND two unstained blood smears.)

Storage/Transport Temperature: Refrigerated.

<u>Unacceptable Conditions:</u> Frozen specimens. Clotted or grossly hemolyzed specimens.

Stability (collection to initiation of testing): Ambient: 24 hours (without smears); Refrigerated: 48 hours; Frozen: Unacceptable

**Reference Interval:** Effective March 1, 2021



Test Number	Components	Refer	ence Int	terval												
0040080	Hematocrit	Effectiv	Effective May 16, 2016													
		Age	0 days	1-6 days	7-13 days	14-29 days	30-60 days	61-90 days	91- 180 days	6-23 mont hs	2-5 years	6-11 years	12-17 years	18 years and older		
		Male %	42-60	45- 64.9	42- 64.9	39-63	31-55	28-42	29-41	33-39	34-40	35-45	37-49	44.2- 53		
		Fema le %	42-60		42- 64.9	39-63	31-55	28-42	29-41	33-39	34-40	35-45	36-46	36-49		
0040085	Hemoglobin	Effectiv	e May 1	6, 2016												
		Age	0 days	1-6 days	7-13 days	14-29 days	30-60 days	61-90 days	91- 180 days	6 - 23 mont hs	2-5 years	6-11 years	12-17 years	18 years and older		
		Male (g/dL	13.5- 19.5	14.5- 22.5	13.5- 21.5	12.5- 20.5	10.0- 18.0	9.0- 14.0	9.5- 13.5	10.5- 13.5	11.5- 13.5	11.5- 15.5	13.0- 16.0	14.8- 17.8		
		Fema le (g/dL	13.5- 19.5	14.5- 22.5	13.5- 21.5	12.5- 20.5	10.0- 18.0	9.0- 14.0	9.5- 13.5	10.5- 13.5	11.5- 13.5	11.5- 15.5	12.0- 16.0	12.6- 15.9		
					<u> </u>					<u> </u>	ı	<u> </u>		<u> </u>		
0040270	Red Blood Cell Count	Age	0 days	1-6 days	7-13 days	14-29 days	30-60 days	61-90 days	91- 180 days	6 - 23 mont hs	2-5 years	6-11 years	12-17 years	18 years and older		
		Male (M/µ L)	3.9- 5.5	4.0- 6.6	3.9- 6.3	3.6- 6.2	3.0- 5.4	2.7- 4.9	3.1- 4.5	3.7- 5.3	3.9- 5.3	4.0- 5.2	4.5- 5.3	4.7- 6.14		
		Fema le (M/µ L)	3.9- 5.5	4.0- 6.6	3.9- 6.3	3.6- 6.2	3.0- 5.4	2.7- 4.9	3.1- 4.5	3.7- 5.3	3.9- 5.3	4.0- 5.2	4.1- 5.1	4.08- 5.47		
00.10220	With District	E.C.		. 2016	•				•	•		•	•			
0040320	White Blood Cell Count	Age	0 days	1-6 days	7-13 days	14-29 days	30-60 days	2-11 mont hs	1-3 years	4-5 years	6-7 years	8-13 years	14-17 years	18 years and older		
		Male (K/µ L)	9-30	9-34	5-21	5-20	5- 19.5	5.5- 17	6-17	5.5- 15.5	5- 14.5	4.5- 13.5	4.5- 13	4.3- 11.3		
		Fema le (K/µ L)	9-30	9-34	5-21	5-20	5- 19.5	5.5- 17	6-17	5.5- 15.5	5- 14.5	4.5- 13.5	4.5- 13	4.3- 11.3		
							<u> </u>							<u> </u>		
	RDW MPV	11.5-15 8.6-12.														
	IPF	Age		0-180 da	ays	6-23 mon	ths	2-5 years	6-1	1 years	12-1	7 years	18 ye	ars and		
		Male (9	6)	2.3-7.1		1.7-4.1		1.4-3.9	1.3	3-5.2	1.9-	6.4	1-11.4			
		Female	(%)	1.6-7.1		1.7-4.8		1.3-3.9	1.3	3-5.0	1.7-	6.7	1-11.4	1		
0040235	Platelets		ve May 1	6, 2016												
	MCV	159-43	у K/µL													
		Age	0 days	1-6 days	7-13 days	14-29 days	30-60 days	61-90 days	91- 180 days	6-23 mont hs	2-5 years	6-11 years	12-17 years	18 years and older		
		Male (fL) Fema	98- 118 98-	95- 121 95-	88- 126 88-	86- 124 86-	85- 123 85-	77- 115 77-	74- 108 74-	70-86 70-86	75-87 75-87	77-95 77-95	78-98 78-	81.2- 96.6 81.9-		
		le (fL)	118	121	126	124	123	115	108				102	101		



MCH														
	Age	0-6 days	7-29 days		30-60 lays	61-1 days		6-23 months	2-5 yea		6-11 year		12-17 years	18 years and older
	Male (pg)	31-37	28-40	) 2	26-34	25-3	15	23-31	24	-30	25-3	3	25-35	25.8- 33.1
	Female (pg)	31-37	28-40	0 2	26-34	25-3	5	23-31	24	-30	25-3	3	25-35	25.8- 33.1
MCHC		0-35.2 g/dL 1.2-34.5 g/d												
Total Neutrophil Number													1.0	
	Age		0-11 mon	iths		years		6-13 yea	ırs		4-17 ye	ars	old	
	(K/μL)		1.5-10.0		1.5-8	5.5		1.5-8.0		1	.8-8.0		2.0	-7.4
Total Neutrophil Percent	Age	0-13 da		1-29 nys	30-9 days		90-180 days		-9 nonths		0-11 nonths		2-23 nonths	2-3 years
	%	19-49		l-44	15-2		14-24		3-23		2-22		3-33	15-35
	Age	4-5 y	ears	6-7 yea	ırs	8-9 yea	rs	10-11 ye	ears	12-13	years	14-1	7 years	18 years and older
	%	23-45	5	32-54		34-56		31-61		32-62		33-63	3	39.4-72.5
 Eosinophils Percentage Eosinophil #	0.4-6.7%													
	Age K/μL		<b>0-6 d</b>	lays		7 da	ys-11 n 1.1	nonths	0-0	1 <b>3 year</b> ).7	rs		14 year 0-0.5	s and older
Basophil Number	0-0.1 K/μI													
Basophils	0.3-1.4%													
Monocytes Number			n			7 days-11 1-5 ye months 0.3-2.7 0-1.1		1-5 years		6	ol		18 old	years and er
								0-1.1	)-1.1 0-0				0.3	.3-1.0
Monocytes Percentage	Age 0		0-6 days		7-29	7-29 days		30-60 days		61-120 days		lavs	4 n	onths and
	%		0-9%		0-12%			0-10%		0	0-9%		<b>old</b> 4.1	er -12.4%
		•					•			•			•	
Lymphocytes Number	Age	0-6	0-6 days		days-11 1-5		l-5 year	rs	6-13 y	ears	14-	-17 yea		18 years and older
	K/µL	2.0	-11.0		17.0	۷	1-10.5		1.5-7.0	)	1.2	2-5.8		1.3-3.6
Lymphocytes Percentage														
	Age	0-6 days	days	(	14-29 lays	30-6 days	s	61-90 days	da		6-7 mon		8-9 months	
	%	26-36	36-46		13-53	41-7	1	42-72		-74	46-7		47-77	48-78
	Age	12-23 months	2-3 years		1-5 years	6-7 year	rs	8-9 years	10 yea	-13 ars	14-1: year		16-17 years	18 years and older
	%	46-76	44-74	4 3	35-65	27-5	7	24-54	28	-48	27-4	7	25-45	17.6- 49.6
Nucleated Red Blood Cells %	0-3 days: 0.1-8.3% 4 days and older: 0%													
Nucleated Red Blood Cell #		0-1.3 K/μl l older: 0 k												
Immature Granulocytes %	Age	0-2 d	ays 3-90 da		ays	91-180 days		6-23 months		2-5 year		6-17	years	18 years
					I	days		months	1					and older



Age	0-2 days	3-90 days	91-180 days	6-23 months	2-5 years	6-11 years	12-17 years	18 years and older
K/µ/L	0.08-1.68	0.03-0.71	0.02-0.09	0.02-0.18	0.02-0.09	0.02-0.06	0.02-0.05	0.01-0.09

**HOTLINE NOTE:** There is a clinically significant charting name change associated with this test. Change the charting name for component 0040070, Granulocyte # from Granulocyte # to Total Neutrophil Number. Change the charting name for component 0040075, Granulocyte % from Granulocyte % to Total Neutrophil Percent.



New Test 3003606 Differential, Manual MDIFF

**Click for Pricing** 

Methodology: Microscopy
Performed: Sun-Sat
Reported: Within 24 hours

Specimen Required: Collect: Lavender (EDTA) or). OR unstained whole blood smears.

Specimen Preparation: Specimens must be well mixed prior to making smears. Transport 3 mL whole blood OR 2 unstained whole

blood smears. (Min: 0.5 mL **OR** 2 smears) <u>Storage/Transport Temperature:</u> Refrigerated.

<u>Unacceptable Conditions:</u> Frozen specimens. Clotted specimens.

Stability (collection to initiation of testing): Whole Blood: Ambient: 8 hours; Refrigerated: 24 hours; Frozen: Unacceptable

Smears: Ambient: 24 hours; Refrigerated: 72 hours; Frozen: Unacceptable

#### **Reference Interval:**



Test Number	Components	Reference Interval							
	Total Neutrophil percent								
		Age	Reference Interval						
		0 – 13 days	19 – 49						
		14 - 29 days	14 - 44						
		30 - 90 days	15 - 25						
		91 - 180 days	14 - 24						
		6 - 9 months	13 - 23						
		10 - 11 months	12 - 22						
		12 - 23 months	13 - 33						
		2 - 3 years	15 - 35						
		4 - 5 years 6 - 7 years	23 - 45 32 - 54						
		8 - 9 years	34 - 56						
		10 - 11 years	31 - 61						
		12 - 13 years	32 - 62						
		14 - 17 years	33 - 63						
		18 years and older	39-73						
		-							
	Total Lymphocytes percent								
		Age	Reference Interval						
		0 - 6 days	26 - 36						
		7 - 13 days	36 - 46						
		14 - 29 days	43 - 53						
		30 - 60 days	41 - 71						
		61 - 90 days	42 - 72						
		91 - 180 days	44 - 74						
		6 - 7 months	46 - 76						
		8 - 9 months	47 - 77						
		10 - 11 months	48 - 78						
		12 - 23 months	46 - 76						
		2 - 3 years	44 - 74						
		4 - 5 years	35 - 65						
		6 - 7 years	27 - 57						
		8 - 9 years	24 - 54						
		10 - 13 years	28 - 48						
		14 - 15 years	24 - 47						
		16 - 17 years	25 - 45						
		18 years and older	17- 50						
	N								
	Monocyte, manual		De Ti						
		Age	Reference Interval						
		0 - 6 days	0 - 9 0 - 12						
		7 - 29 days 30 - 60 days	0 - 12						
		61 - 120 days	0 - 10						
		4 months and older	4-13						
		- monuis and older	7 13						
	Eosinophil, manual	0-7%							
	Basophil, manual	0-7%							
	Absolute Neutrophil Count								
		Age	Reference Interval						
		0 – 11 months	1.5 - 10.0						
		1 – 5 years	1.5 - 8.5						
		6 – 13 years	1.5 - 8.0						
		14 – 17 years	1.8 - 8.0						
		18 years and older	2.0 - 7.4						
			•						
	Morphology	Normocytic/Normoch	romic						

**CPT Code(s):** 85007

New York DOH approval pending. Call for status update.

**HOTLINE NOTE:** Refer to the Test Mix Addendum for interface build information.



3000894 Hereditary Hemolytic Anemia Cascade HHACASCADE

**CPT Code(s):** 84220; 88184; 82955; 83021. Reflex components billed separately. Additional CPT codes may apply, 85555; 85060; 85007; 83068;

81269; 81259; 81363; 81364; 81249; 81443; 85660; 83020.

3000714 Sotalol Quantitation, Serum/Plasma SOTA SP

Methodology: Quantitative High Performance Liquid Chromatography-Tandem Mass Spectrometry (HPLC-MS/MS)

Performed: Varies
Reported: 8-11 days

Specimen Required: Collect: Plain Red, Lavender (EDTA), or Pink (K2EDTA).

Specimen Preparation: Separate from cells ASAP or within 2 hours of collection. Transfer 1 mL serum or plasma to an ARUP

Standard Transport Tube. (Min: 0.2 mL)

Test is not performed at ARUP; separate specimens must be submitted when multiple tests are ordered.

Storage/Transport Temperature: Refrigerated. Also acceptable: Room temperature or frozen.

<u>Unacceptable Conditions:</u> Separator tubes.

Stability (collection to initiation of testing): Ambient: 2 weeks; Refrigerated: 1 month; Frozen: 1 month



# The following will be discontinued from ARUP's test menu on March 1, 2021. Replacement test options are supplied if applicable.

Test Number	Test Name	Refer To Replacement
0040005	Manual Differential	