	<p align="center"><b>Document name:</b>  <b>GEN-2-043 Attachment I- AfpTest (for ONTDs) Instruction Manual</b></p>	<p align="right"><b>Eurofins Document Reference:</b>  <b>1-D-QM-CF -9059801</b>  <b>NTD Labs SOP ID:</b>  <b>GEN-2-043 ( Att I)</b>  <b>Revision:2</b></p>
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## GEN-2-043 Attachment I- AfpTest (for ONTDs) Instruction Manual

<b>Eurofins Document Reference</b>	1-D-QM-CF -9059801	<b>Type of document</b>	CF - Controlled Form
<b>NTD Labs SOP ID</b>	GEN-2-043 ( Att I)	<b>Division</b>	1-D Clinical Diagnostics Services
<b>Effective Date</b>	Aug 1, 2018	<b>Business Line(s) / Unit(s)</b>	(1-DU) Clinical Diagnostics US : (2-59) Clinical Diagnostics Services North-East US : (EUUSME2) Eurofins NTD (US)
<b>Status</b>	Effective	<b>Periodic Review Date</b>	Jul 31, 2020
		<b>Functional Area</b>	QM - Quality Management


<b>Written by</b>	Elizabeth Sylander
<b>Functional Document Owner</b>	Eurofins D CDS US Quality Management Department; Eurofins D CDS US Laboratory Management; Eurofins D CDS US Quality Control Department
<b>Review and Approval</b>	<ul style="list-style-type: none"> <li>• Reviewers: Stephanie Zichi; Margaret Palladino; David Krantz; Norman Moore; Lisa Schmitt; Jonathan Hayden</li> <li>• Approver (Laboratory Director Only): Terrence Hallahan</li> </ul>
<b>Reason for Revision</b>	Remove specimen collection section

### Revision Log

Date	Rev.	Author	Description
May 18, 2018	1	Eurofins D CDS US Quality Management Department; Eurofins D CDS US Laboratory Management; Eurofins D CDS US Quality Control Department	

### Electronic Signatures

Jonathan Hayden;Review;Jul 6, 2018 4:59 PM EDT Stephanie Zichi;Review;Jul 9, 2018 10:06 AM EDT Margaret Palladino;Review;Jul 9, 2018 11:29 AM EDT David Krantz;Review;Jul 10, 2018 10:28 AM EDT Lisa Schmitt;Review;Jul 11, 2018 10:32 AM EDT Norman Moore;Review;Jul 11, 2018 1:47 PM EDT Terrence Hallahan;Approval;Jul 18, 2018 9:53 AM EDT
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## Reporting Title: AFP Test for ONTDs

Test Definition: SECTRIAFP  
Testing Location: Melville, NY  
Reporting Location: Melville, NY

### Description:

Alpha-fetoprotein (AFP) values are compared to the median value of the unaffected population at a given gestational age and the multiple of the median (MoM) is obtained and classified as either Within Range, Borderline elevated or significantly elevated. In addition, risks for open spina bifida, anencephaly, and ventral wall defects are provided.

### Analytical Method(s):

Serum Specimens: AFP is measured on the AutoDELFI A machine using PerkinElmer's solid phase 2-site sandwich fluorometric assay (product number: PKI B079-201).

Dried Blood Specimens: AFP is measured on the AutoDELFI A machine using a lab developed solid phase 2-site sandwich fluorometric assay.

### Specimen Requirements:

Specimen Type: Serum

Container/Tube: Red-top Vacutainer® tube or Serum Separator Tube (Red/Grey or Gold Top SST)

Specimen Volume: 0.5 ml of spun serum or 5 ml of unspun whole blood

Specimen Stability: Serum samples are stable at ambient temperature for 6 days.

Specimen Rejection Criteria: hemolysis, lipemia, incorrect tube type

Specimen Type: Dried Blood

Container/Tube: Dried Blood Spot Card

Specimen Volume: Minimum: 2 Spots, Preferred: 5 spots

Specimen Stability: Dried blood spots are stable at ambient temperature for 30 days.

Specimen Rejection Criteria: insufficient volume, layering, insufficient drying time


### Specimen Collection Instructions

See Blood Specimen Collection from Venipuncture Instruction Manual or Dried Blood Specimen Collection Instruction Manual as applicable

### Additional Information:

1. Indications for Testing: General population screening of pregnant women

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2. GA at draw date is calculated by EDC or by Ultrasound. If data is entered for both methods, gestational age will be calculated based on Ultrasound. This comment relates to Ask on Entry questions (EDC, EDCUS, GAUS and USDATE).
3. Special Timing: Draw blood between 15 weeks, 0 days and 21 weeks, 6 days.
4. Do not draw blood after performing amniocentesis, as that may lead to an artificially increased serum alpha-fetoprotein level and unreliable results.
5. Specimen Stability: Serum specimens are stable at ambient temperature for 6 days. Dried blood specimens are stable at ambient temperature for 30 days.
6. Rejection Criteria Serum: hemolysis, lipemia, incorrect tube type
7. Rejection Criteria Dried Blood: insufficient volume, layering, insufficient drying time

**CPT Code:** 1 x 82105

**Reference Values:**

Total ONTDs/VWD  
 AFP MoM < 2 MoM are Within Range  
 AFP MoM 2-2.49 MoM are Borderline Elevation  
 AFP MoM ≥ 2.5 MoM are Significant Elevation

An Interpretive Report will be provided.

**Supplemental Report:**

No

**Testing Algorithm:**

Follow up testing:

1. MSAFP Borderline Elevation and GA<19 weeks: Repeat blood or serum.
2. MSAFP Borderline Elevation and GA>=19 weeks: Genetic Counseling, Ultrasound and offer of amniocentesis.
3. MSAFP Significant Elevation: Genetic Counseling, Ultrasound and offer of amniocentesis.

**Consents/Authorizations:**

Patient signature on patient authorization/assignment on requisition form is required.

**Disclaimers:**


Serum Specimens:

The PerkinElmer AFP assay has been approved by the FDA for testing for Open neural tube defects.

Dried Blood Specimens:

The test was developed and its performance characteristics determined by Eurofins NTD, LLC. It has not been cleared or approved by the U.S. Food and Drug Administration. The methods and performance characteristics have been reviewed and approved by the New York State Department of Health.

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Test Requisition Instructions

Prenatal Screening Test Requisition Form Instructions

- 1 Account Information - Please enter Ordering Physician name and Referring Ob/Gyn name and phone number, if applicable. A provider signature is required for patients with Medicaid.
- 2 Specimen Labels - Preprinted with the requisition number. Please enter the patient's last and first name EXACTLY as they appear on the requisition form. Affix label(s) to patient specimen(s). Please complete date drawn and drawn-by fields.
- 3 Patient Information - For all tests, please complete patient weight, ethnicity and current pregnancy information. Complete additional patient history as appropriate for test(s) ordered. Please note, all patient information requested is used to ensure the most accurate risk assessment possible for your patient.
- 4 Gestational Age - Complete for tests other than First Trimester Screen I FB, Sequential Screen I FB, PreeclampsiaScreen<sup>SM</sup> | T1 or Maternal Fetal Screen<sup>SM</sup> | T1 which require CRL (see section 6).
- 5 Biophysical Information - Complete this section for preeclampsia screening only.
- 6 Ultrasound Information - Please provide sonographer and supervisor names and credentialing numbers. Enter all ultrasound information as appropriate for test(s) ordered.
- 7 Test Requests - Tests are ordered by specimen type. Check all tests that apply and provide appropriate ICD codes.
- 8 Cell Free DNA - BOTH the physician and patient signatures are required.
- 9 Billing Information - Provide photocopy of front and back of insurance card or print the information in the required fields.
- 10 Patient Signature - Required for all tests.

**Prenatal Screening Requisition**

NTD Eurofins Clinical Diagnostics

10000000 01/24/2017 11:00 AM NTD-CLD-2017-000001


<b>3 Patient Information</b>		<b>Physician Information</b>	
Last Name	First Name	Ordering Physician	Physician Code
DOB	Address	Ordering Physician Signature	
City	State	Referring Office	
Zip	Phone	Referring (Cell) Phone	
<b>Dried Blood Spot Tests</b>			
<input type="checkbox"/> NTG TORCH SCREEN   PHN, PABA, APP, ANTIGEN (N.B. BIRTH - 15000)			
<input type="checkbox"/> COLORED SCREEN   PHN, PABA, APP, BIRTH - 25000			
<input type="checkbox"/> APP TEST (IQ CLAY)   BIRTH - 25000			
<input type="checkbox"/> HEPATEX TEST   BIRTH - 50000			
<input type="checkbox"/> CYTO PROTECT SCREENING			
<input type="checkbox"/> NEW BORN SCREEN   RECOMMENDED (CLAY)			
REFRAIN DATE: _____			
<b>Serum Specimen Tests</b>			
<input type="checkbox"/> PREECLAMPSIA SCREEN   T1 (PRA, ANP, PAPP-A, PAPP-A-M, U-AC, U-AC-M, MAMU, U-15000)			
<input type="checkbox"/> MATERNAL FETAL SCREEN   PRA, ANP, PAPP-A, U-AC, U-AC-M, MAMU, U-15000			
<input type="checkbox"/> PULP PRECIPITATE TEST			
<input type="checkbox"/> BIOCHEMICAL SCREEN   PRA, PRA-AB, APP, U-AC, U-AC-M - PREECLAMPSIA SCREEN   BIRTH - 25000			
PATIENT MUST HAVE TEST RESULTS DOWN WITH STRONG VHS LABEL			
<input type="checkbox"/> NTG TORCH SCREEN   BIRTH			
<input type="checkbox"/> COLORED SCREEN   PRA, ANP, PAPP-A, U-AC, U-AC-M, MAMU, U-15000			
<input type="checkbox"/> APP TEST (IQ CLAY)   BIRTH - 25000			
<input type="checkbox"/> HEPATEX TEST   BIRTH - 50000			
<b>Amniotic Fluid Tests</b>			
<input type="checkbox"/> APP-APP WITH BIRTH DATE   BIRTH - 25000			
<input type="checkbox"/> AMNIO-AMU   BIRTH			
<b>Cell Free DNA BCT Blood Specimen Tests</b>			
<input type="checkbox"/> NON-INTERPRETABLE TEST FOR SEX   BIRTH - 25000			
<input type="checkbox"/> BIRTH DATE   BIRTH - 25000			
<input type="checkbox"/> INTERPRETABLE TEST FOR SEX   BIRTH - 25000			
ADDITIONAL USE OF THIS OPTION, AN HYPO-INTERPRETABLE TEST IS REQUIRED WITH PRELIMINARY REPORTS.			
<input type="checkbox"/> INTERPRETABLE TEST FOR TRISOMY   HYPO-INTERPRETABLE TEST   18, 13, 21 - 15000			
<input type="checkbox"/> PRESENCE OF VITELLOEMBOLIC OPTION			
<b>Ultrasound Information</b>			
<input type="checkbox"/> PREECLAMPSIA SCREEN   BIRTH - 25000			
<input type="checkbox"/> MATERNAL FETAL SCREEN   BIRTH - 25000			
<input type="checkbox"/> PULP PRECIPITATE TEST			
<input type="checkbox"/> BIOCHEMICAL SCREEN   BIRTH - 25000			
<input type="checkbox"/> NTG TORCH SCREEN   BIRTH			
<input type="checkbox"/> COLORED SCREEN   BIRTH - 25000			
<input type="checkbox"/> APP TEST (IQ CLAY)   BIRTH - 25000			
<input type="checkbox"/> HEPATEX TEST   BIRTH - 50000			
<input type="checkbox"/> AMNIO-AMU   BIRTH			
<input type="checkbox"/> APP-APP WITH BIRTH DATE   BIRTH - 25000			
<input type="checkbox"/> AMNIO-AMU   BIRTH			
<input type="checkbox"/> INTERPRETABLE TEST FOR SEX   BIRTH - 25000			
<input type="checkbox"/> BIRTH DATE   BIRTH - 25000			
<input type="checkbox"/> INTERPRETABLE TEST FOR TRISOMY   HYPO-INTERPRETABLE TEST   18, 13, 21 - 15000			
<input type="checkbox"/> PRESENCE OF VITELLOEMBOLIC OPTION			
<b>Biophysical Information (see COIC Screening)</b>			
NTG TORCH SCREEN   BIRTH			
COLORED SCREEN   BIRTH - 25000			
APP TEST (IQ CLAY)   BIRTH - 25000			
HEPATEX TEST   BIRTH - 50000			
AMNIO-AMU   BIRTH			
APP-APP WITH BIRTH DATE   BIRTH - 25000			
AMNIO-AMU   BIRTH			
INTERPRETABLE TEST FOR SEX   BIRTH - 25000			
BIRTH DATE   BIRTH - 25000			
INTERPRETABLE TEST FOR TRISOMY   HYPO-INTERPRETABLE TEST   18, 13, 21 - 15000			
PRESENCE OF VITELLOEMBOLIC OPTION			
<b>Billing Information (Attach Copy of Front and Back of Insurance or Card)</b>			
NTG TORCH SCREEN   BIRTH			
COLORED SCREEN   BIRTH - 25000			
APP TEST (IQ CLAY)   BIRTH - 25000			
HEPATEX TEST   BIRTH - 50000			
AMNIO-AMU   BIRTH			
APP-APP WITH BIRTH DATE   BIRTH - 25000			
AMNIO-AMU   BIRTH			
INTERPRETABLE TEST FOR SEX   BIRTH - 25000			
BIRTH DATE   BIRTH - 25000			
INTERPRETABLE TEST FOR TRISOMY   HYPO-INTERPRETABLE TEST   18, 13, 21 - 15000			
PRESENCE OF VITELLOEMBOLIC OPTION			
<b>Specimen Labeling</b>			
Date Drawn: _____ Drawn By: _____			
NTD Labs Use Only			

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NTD Prenatal Screening Requisition Form


NTD Eurofins Clinical Diagnostics		Prenatal Screening Requisition	
80 Ruland Rd, Suite 1 • Melville, NY • 11747 ntdlabs.com • Phone: 855-754-5221			
<b>Physician information</b>			
Ordering Physician		Ordering Physician Signature	
Referring US/Phys		Referring US/Phys Phone	
		Physician Code	
<b>Patient Information</b>			
Last Name		First Name	
Address		City	
State		Zip	
Phone		Date of Birth / /	
Due Date / /		Weight (lbs)	
*Sequential Screen (F) is dated based on the first trimester CR.			
Ethnicity			
<input type="checkbox"/> African American or Caribbean <input type="checkbox"/> Ashkenazi Jewish <input type="checkbox"/> Asian <input type="checkbox"/> Asian Indian <input type="checkbox"/> Caucasian <input type="checkbox"/> Hispanic <input type="checkbox"/> Native American <input type="checkbox"/> Other			
Current Pregnancy (check all that apply)			
<input type="checkbox"/> IVF - Age of Egg at Harvest _____ yrs. <input type="checkbox"/> Twin <input type="checkbox"/> Multiple # <input type="checkbox"/> Smoker			
Pregnancy History (check all that apply)			
<input type="checkbox"/> Prior Pregnancy with Down syndrome <input type="checkbox"/> Prior pregnancy with Trisomy 13 <input type="checkbox"/> Prior Pregnancy with Trisomy 18			
<input type="checkbox"/> Family Hx of ONTD (relationship to patient) _____ <input type="checkbox"/> Valproic Acid (Depakene) or Carbamazepine (Tegretol) THIS Pregnancy			
<input type="checkbox"/> Insulin dependent Before Pregnancy                    Country _____ State _____			
Preeclampsia History (check all that apply)			
<input type="checkbox"/> Previous Pregnancy with Preeclampsia <input type="checkbox"/> Previous delivery > 24 weeks <input type="checkbox"/> Patient's mother with history of Preeclampsia <input type="checkbox"/> History of Chronic Hypertension			
<b>Biophysical Information (for Preeclampsia Screen   T1)</b>			
Height (ft) (in)		Blood Pressure Date / /	
		Left Arm Blood Pressure / /	
		Right Arm Blood Pressure / /	
<b>Ultrasound Information</b>			
Sonographer		Sonographer's previous	
DOB or NIDEP		DOB or NIDEP	
Ultrasound Date / /		CRL (43-84mm) _____ mm	
		NT _____ mm	
		NB <input type="checkbox"/> Present <input type="checkbox"/> Absent	
		UtAD-PI (Left) (Right)	
Twin B <input type="checkbox"/> Monochorionic <input type="checkbox"/> Dichorionic		CRL (43-84mm) _____ mm	
		NT _____ mm	
		NB <input type="checkbox"/> Present <input type="checkbox"/> Absent	
		PE Risk Not Calculated in Twins	
<b>First Trimester Test Requests</b>			
<input type="checkbox"/> Maternal Fetal Screen   T1 (PIGF, AFP, PAPP-A, free Beta, Inhibin-A, NT w/optional NB) (10w0d - 13w6d)		Serum - SST (Red/Grey or Gold Top) or Red Top	
<input type="checkbox"/> Preeclampsia Screen   T1 (PIGF, AFP, PAPP-A w/ optional UtAD and MAP) (10w0d - 13w6d)		Serum - SST (Red/Grey or Gold Top) or Red Top	
<input type="checkbox"/> First Trimester Screen   Fβ (Free Beta, PAPP-A, AFP, NT w/optional NB) (9w0d - 13w6d)		Dried Blood Spot	
<input type="checkbox"/> Cystic Fibrosis Carrier Screening		Dried Blood Spot	
<input type="checkbox"/> Male (please provide female reproductive partner)			
Female Name _____		Female DOB / /	
<b>Second Trimester Test Requests</b>			
<input type="checkbox"/> Sequential Screen   Fβ (free-Beta, AFP, uEi, Inhibin-A + First trimester Screen) (15w0d - 21w6d)		Serum - SST (Red/Grey or Gold Top) or Red Top	
Patient must have first trimester screen done through NTD Labs			
First Trimester Patient ID Number _____			
<input type="checkbox"/> Quad Screen   Fβ (free-Beta, AFP, uEi, Inhibin-A) (15w0d - 21w6d)		Serum - SST (Red/Grey or Gold Top) or Red Top	
<input type="checkbox"/> AFP Test (for ONTD) (15w0d - 21w6d) <input type="checkbox"/> Repeat test for Elevated MSAFP		Serum - SST (Red/Grey or Gold Top) or Red Top	
<input type="checkbox"/> Second Trimester Screen   Fβ (Free Beta, AFP) (15w0d - 21w6d)		Dried Blood Spot	
<input type="checkbox"/> AFP Test (for ONTD) (15w0d - 21w6d) <input type="checkbox"/> Repeat test for Elevated MSAFP		Dried Blood Spot	
<b>Amniotic Fluid Specimen Test Requests</b>			
<input type="checkbox"/> AF-AFP with reflexive AChE (15w0d - 21w6d)		Amniotic Fluid	
<input type="checkbox"/> Amniotic Fluid AChE Only		Amniotic Fluid	
<b>Billing Information (Please Attach a Copy of The Front and Back of the Patient's Insurance Card or Provide Information Below)</b>			
Insurance Company		File Name	
Subscriber's Last Name, First Name		Insurance ID#	
Insurance Claims Address		Secondary Insurance Information	
I authorize Eurofins NTD, LLC to obtain and release relevant medical and other information and to directly bill and submit claims to Medicare, Medicaid, Medicare Supplemental and/or insurance providers ("insurance") for laboratory/ medical services that Eurofins NTD, LLC provides to me. I assign insurance benefits to Eurofins NTD, LLC and acknowledge that charges that are not covered by insurance, including any applicable co-payments, deductibles, co-insurance, non-covered charges, and charges due to no authorization are my responsibility and I agree to pay for such charges.			
Patient Signature (Required for all Tests)		Date / /	
<b>Specimen Labeling</b>			
Date Drawn / /		Drawn By: _____	
[R4306001 Last Name, First Name]		[UR4306001 Last Name, First Name]	
Enter patient's name on specimen identification label(s) EXACTLY as it appears on the Requisition Form below Two forms of patient ID MUST appear on both the Test Requisition Form and the specimen			

NTD-51101-0118

	<p style="text-align: center;"><b>Document name:</b>  <b>GEN-2-043 Attachment I- AfpTest (for ONTDs) Instruction Manual</b></p>	<p style="text-align: right;"><b>Eurofins Document Reference:</b>  <b>1-D-QM-CF -9059801</b>  <b>NTD Labs SOP ID:</b>  <b>GEN-2-043 ( Att I)</b>  <b>Revision:2</b></p>
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**EMR Ask at Order Entry (AOE) Questions:**

Test ID	Question ID	Description	Type	Required
SECTRIAFP	REPEAT	Repeat Specimen for Elevated MSAFP <ul style="list-style-type: none"> <li>No</li> <li>Yes</li> </ul>	Answer List	No
SECTRIAFP	MATWT	Maternal Weight	Plain Text	YES
SECTRIAFP	MWLBSKGS	Units <ul style="list-style-type: none"> <li>LBS</li> <li>KGS</li> </ul>	Answer List	YES
SECTRIAFP	ETHNIC	Ethnicity <ul style="list-style-type: none"> <li>African American/Caribbean</li> <li>Asian</li> <li>Asian Indian</li> <li>Caucasian</li> <li>Hispanic</li> <li>Native American</li> <li>Other</li> </ul>	Answer List	YES
SECTRIAFP	HXNTD	Family History of ONTD <ul style="list-style-type: none"> <li>None</li> <li>Prev Child</li> <li>Patient's Sister's Child</li> <li>Patient's Brother's Child</li> <li>Patient's Sister</li> <li>Patient's Brother</li> <li>Patient's Aunt</li> <li>Patient's Uncle</li> <li>Partner's Prev Child</li> <li>Partner's Brother</li> </ul>	Answer List	YES
SECTRIAFP	IVFAGE	IVF-Age of Egg (years)	Plain Text	NO
SECTRIAFP	NOF	Number of Fetuses <ul style="list-style-type: none"> <li>1</li> <li>2</li> </ul>	Answer List	YES
SECTRIAFP	SMOKE	Is Patient a Smoker <ul style="list-style-type: none"> <li>No</li> <li>Yes</li> </ul>	Answer List	YES
SECTRIAFP	VALPRO	Valproic Acid or carbamazepine used during preg <ul style="list-style-type: none"> <li>No</li> <li>Yes</li> </ul>	Answer List	YES
SECTRIAFP	IDDM	Insulin dependent diabetic Prior to pregnancy <ul style="list-style-type: none"> <li>No</li> </ul>	Answer List	YES

	<b>Document name:</b> <b>GEN-2-043 Attachment I- AfpTest (for ONTDs) Instruction Manual</b>	<b>Eurofins Document Reference:</b> <b>1-D-QM-CF -9059801</b> <b>NTD Labs SOP ID:</b> <b>GEN-2-043 ( Att I)</b> <b>Revision:2</b>

		<ul style="list-style-type: none"> <li>• Yes</li> </ul>		
SECTRIAFP	EDD	Due Date	Plain Text	NO
SECTRIAFP	EDDUS	Due Date Confirmed By U/S	Answer List	NO
		<ul style="list-style-type: none"> <li>• No</li> <li>• Yes</li> </ul>		
SECTRIAFP	GAUS	GA at U/S (Weeks.Days)	Plain Text	NO
SECTRIAFP	USDATE	U/S Date	Plain Text	NO
SECTRIAFP	CO3MO	Address-Country(If different 1 <sup>st</sup> 3 mos. of preg)	Plain Text	NO
SECTRIAFP	ST3MO	Address-State(If different 1 <sup>st</sup> 3 mos. Of preg)	Plain Text	NO

**EMR Result Codes:**

Data Type	Code	LOINC	Name	Contains Result	Comments
CE	RSKTBL		Risk Table	No	Included if disorders are available
ST	TONTD	59462-2	Total ONTDs/VWD	Yes	Risk result information contained in NTEs
ST	TONTD-B	59462-2	Total ONTDs/VWD Twin B	Yes	Risk result information contained in NTEs
CE	MKRANA		Markers/Analytes	No	Included if any 1T markers are available
CE	2T		2nd Trimester	No	
CE	AFP2	19176-7	AFP	Yes	Measurements contained in NTEs
CE	DGD		Demographic Data	Yes	Included if demographic data is available (contained in NTEs)
CE	2TD		2 <sup>nd</sup> Trimester Data	Yes	Included if test-specific data is available (contained in NTEs)
CE	REC		Recommendations	Yes	Only displayed if recommendations are available
CE	REC-B		Recommendations Twin B	Yes	Displayed for twin B, Only displayed if recommendations are available
CE	COM	55107-7	Comments	Yes	Only displayed if comments are available
CE	COM-B	55107-7	Comments Twin B	Yes	Displayed for twin B, Only displayed if comments are available
CE	FTR		Footer	Yes	Only displayed if footer is available
CE	FTR-B		Footer Twin B	Yes	Displayed for twin B, Only displayed if footer is available
CE	NOT		Notification	Yes	Included for Unsatisfactory Specimens Only
CE	NOT-B		Notification Twin B	Yes	Included for Unsatisfactory Specimens Only, Displayed for twin B





**Example Report**

**Afp Test (for ONTDs)**

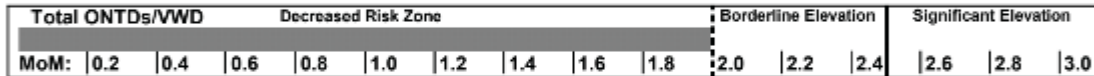
**Physician ID #:** 24328  
**Physician Tel #:** (000) 000-0000  
**OB SPECIALISTS**  
**100 ANYWHERE ST**  
**MELVILLE, NY 11747**

**Patient Name:** BORDERLINE, AFPONLY  
**Client ID #:**  
**Patient ID #:** 17SE0099992 **2nd Trimester data**  
**Date of Birth:** 05/29/72 **Insulin Rx:** No  
**Age at EDC:** 45 **Fam Hx ONTD:** No  
**Mat. Weight:** 225 lbs **State:** NY  
**Ethnicity:** Caucasian **Draw Date:** 03/11/17  
**Prev Chrom Hx:** None **GA @ Draw:** 15w1d  
**Multi. Preg:** No **GA by:** EDC By U/S  
**Smoker:** No **Date Received:** 03/13/17  
**EDC:** 09/01/17 **Report Date:** 03/14/17

**2nd Trimester**

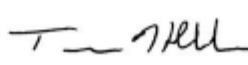
Marker/Analyte	Value	MoM	%ile
AFP	42.27 (IU/ml)	2.03	98

Risk Table	Cut-Off	Risk Before Screening	Risk After Screening	Result
<b>Total ONTDs/VWD</b>	2 MoM	1 in 588	1 in 323	<b>BORDERLINE ELEVATION</b>
Open Spina Bifida	--	1 in 2,000	1 in 536	---
Anencephaly	--	1 in 1,429	1 in 1,350	---
Ventral Wall Defect	--	1 in 2,000	1 in 2,040	---



**Recommendations:**  
 • Repeat blood or serum.

  
 Jonathan B. Carmichael, Ph.D  
 Laboratory Director,  
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CAUTION: These results do not eliminate the possibility that this pregnancy may be associated with birth defects including open neural tube defects, ventral wall defects, or other disorders not detectable by this screening test. This report contains Protected Health Information. The recipient shall not disclose this information without the permission of the patient unless required to provide appropriate medical care. Any recommendations or comments on specific analytes are provided as a courtesy to the ordering physician and do not constitute medical advice.

**Physician Information Brochure**



**NTD Labs' second-trimester MSAFP screening, available via dried blood spot:**  
 A simple solution for ONTD risk assessment

ACMG\* guidelines recommend that all pregnant women, regardless of medical background and family history, be offered maternal serum alpha-fetoprotein (MSAFP) screening between 16 to 18 weeks' gestation.<sup>1</sup>

*Cell-free DNA non-invasive prenatal testing (NIPT) has not negated the continued need for open neural tube defect (ONTD) screening.*

**Second-trimester MSAFP identifies pregnancies at risk for the following:**

- Open neural tube defects (ONTDs)
- Anencephaly
- Ventral wall defects

**MSAFP may also be used to predict increased risk for:**

- Low birth weight
- Placenta accreta
- Preterm birth
- Stillbirth
- Macrosomia
- Preeclampsia
- Spontaneous abortion

**Why MSAFP screening from NTD Labs?**

- Supports ACOG\*\* recommendations
- Provides high detection rates for ONTDs<sup>3</sup>
  - 90% detection rate for spina bifida
  - 98% detection rate for anencephaly
- Offers fast turnaround time (24–48 hours)
- Low out-of-pocket costs for patients
  - NTD Labs is well-contracted with third-party payers
- Offers flexibility, convenience and ease of use
  - Flexible sample types—available on dried blood spot (DBS) or whole blood
  - Same requisition form as other NTD Labs' prenatal screening tests
  - Simple, easy-to-read reports, available through online portal (eReports)

For more than 30 years, NTD Labs has pioneered the research and development of prenatal testing protocols for ONTDs, Down syndrome, trisomy 18 and trisomy 13. Today, NTD Labs is a proven leader in prenatal testing, serving universities, medical centers, hospitals, laboratories, obstetricians and maternal fetal medicine specialists worldwide.


Count on NTD Labs for your prenatal screening needs.

For more information, please contact your local Genetic Accounts Executive, or call us at **1-888-NTD-LABS (683-5227)**.



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[www.ntdlabs.com](http://www.ntdlabs.com) | 1-888-NTD-LABS (683-5227)

1. Dikordi, DA. ACMG Policy Statement: second-trimester maternal serum screening for fetal open neural tube defects and aneuploidy. ACOG July 10, 2004.  
 2. Mikunsky A, Jick SS, Bruell CL, et al. Predictive values, relative risks and overall benefits of high and low maternal serum-fetoprotein screening in singleton pregnancies: new epidemiologic data. Am J Obstet Gynecol. 1989;161(2):291-297.  
 \* American College of Medical Genetics      \*\* The American Congress of Obstetricians and Gynecologists  
 Pursuant to applicable federal and/or state laboratory requirements, NTD Labs has established and verified the accuracy and precision of its testing services. Testing has not been cleared or approved by the FDA.  
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**Patient Information Brochure**  
N/A

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