

# Beaumont

## Beaumont Laboratory Farmington Hills- Grosse Pointe- Royal Oak-Troy

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### Maternal Serum Screening Report – Addition of ONTD Risk and Report delivery changes

Effective Date: December 6, 2021

Screens include: Maternal Serum AFP, Quad screen, Integrated and Sequential screens and First trimester screen.

- An ONTD risk (1 in ..... ) will be reported whenever an AFP is part of a maternal serum screen. An increase in risk is based on an AFP MoM of greater than 2.20
- The original signed maternal serum report will **NO LONGER** be delivered to physician offices but instead will be **FAXED** on the weekday following report finalization.
- Abnormal reports will continue to be called and faxed as soon as possible after report review.
- Serum marker and NT MoM's and risk assessments will still be available in Epic-Beaker.
- The complete report will still include patient information used for risk assessments, such as LMP, gestational age, weight, diabetic status, race, smoking history, etc.
- Epic EMR users will still be able to view a scanned copy of the original report in Epic and will also receive a FAX copy.
- Non-Epic EMR users will not have the scanned report available to them but will receive a FAX of the complete report.
- See over for example reports

# Laboratory Bulletin

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Date submitted: December 1, 2021

Submitted by: Elizabeth Sykes MD, System Medical Director, Clinical Chemistry  
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### Increased Risk for ONTD:

#### NEURAL TUBE DEFECT SCREENING

Report dated Nov 29 21

Last name	: EXAMPLE	LMP	: 07/28/21
First name	: Patient	EDD	: 04/18/22
ID number		Date of sample	: 11/26/21
Date of birth			
Accession number	2T		

#### CLINICAL DETAILS AND TEST RESULTS

Previous NTD	: None
Previous Down's	: None
Insulin dependent diabetes	: None
Smoker	: No
Maternal age at EDD	: 34.6 years
Scan measure	: Not known
Gestation at date of sample	: 17 weeks 2 days (by dates) 19 weeks 4 days (by scan)
Gestation used	: Scan estimate
Weight	: 197 lbs
Ethnic group	: non-Black
MS-AFP level	: 121.0 ng/mL ; 2.60 MoM

#### INTERPRETATION

Screening result	: *** SCREEN POSITIVE ***
Reason	: Raised AFP
Risk of NTD	: 1 in 65
Comment	: The interpretation is for NTD only

#### COMMENTS FROM William Beaumont Hospital

This result, based on ultrasound dating, is screen positive for an increased risk of open neural tube defect. Genetic counseling to discuss level 2 ultrasound and diagnostic testing is recommended.

### Increased risk for Down syndrome but NOT increased for ONTD:

#### DOWN'S SYNDROME AND NEURAL TUBE DEFECT SCREENING

Report dated Nov 29 21

Last name	: PATIENT	LMP	: 07/28/21
First name	: Example	EDD	: 05/04/22
ID number		Date of sample	: 11/23/21
Date of birth			
Accession number	2T		

#### CLINICAL DETAILS AND TEST RESULTS

Previous NTD	: None
Previous Down's	: None
Insulin dependent diabetes	: None
Smoker	: No
Maternal age at EDD	: 39.7 years
Scan measure	: Not known
Gestation at date of sample	: 16 weeks 6 days (by dates) 16 weeks 6 days (by scan)
Gestation used	: Scan estimate
Weight	: 188 lbs
Ethnic group	: Black
MS-AFP level	: 33.0 ng/mL ; 0.86 MoM
uE3 level	: 1.78 ng/mL ; 1.81 MoM
Total hCG level	: 75.00 IU/mL ; 2.05 MoM
Inhibin-A level	: 304.1 pg/mL ; 2.40 MoM

#### INTERPRETATION

Screening result	: *** SCREEN POSITIVE ***
Reason	: Increased risk of Down's syndrome
Risk of Down's	: 1 in 160
Risk of NTD	: 1 in 7,000
Comment	: The risk of Down's is lower than that expected from the maternal age alone (1 in 80)
Comment	: Trisomy 18 risk: 1 in 15,000

#### COMMENTS FROM William Beaumont Hospital

This result, based on ultrasound dating, is screen positive for an increased risk of Down syndrome. Genetic counseling to discuss diagnostic testing is recommended.