

Beaumont

Beaumont Laboratory
Dearborn-Taylor-Trenton-Wayne

Maternal Serum Screening Report

Effective Date: December 6, 2021

Laboratory Bulletin

- Effective Monday, December 6th, the maternal serum AFP screen and the Quad screen will be performed and reported from Clinical Pathology, Royal Oak. First trimester screens will continue to be reported from Royal Oak.
- Reports will be generated from Alpha software, rather than Robert Maciel software currently used at Dearborn. The Alpha report format will differ from the current Dearborn report, however the key information will still be included. **Examples are shown on the reverse of this bulletin.**

General information on reporting is as follows:

- Serum marker and NT MoM's and risk assessments will be available in Epic-Beaker.
- The complete report will still include patient information used to calculate risk assessments, such as LMP, gestational age, weight, diabetic status, race, smoking history, etc.
- Abnormal reports will to be called and faxed as soon as possible after report review.
- 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, but no follow-up phone-call.
- Non-Epic EMR users will not have the scanned report available to them but will receive a FAX of the complete report, but no follow-up phone call.
- Criteria used to indicate increased risks:

ONTD risk	AFP MoM > 2.2
Down syndrome risk in 2 nd trimester	1:270
Down syndrome risk in 1 st trimester	1:230
Trisomy 18 risk	1:100

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	: 12345678	Date of sample	: 11/26/21
Date of birth	: 1/1/1980		
Accession number 2T	: 12345678		

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	: 12345678	Date of sample	: 11/23/21
Date of birth	: 1/1/1980		
Accession number 2T	: 12345678		

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.