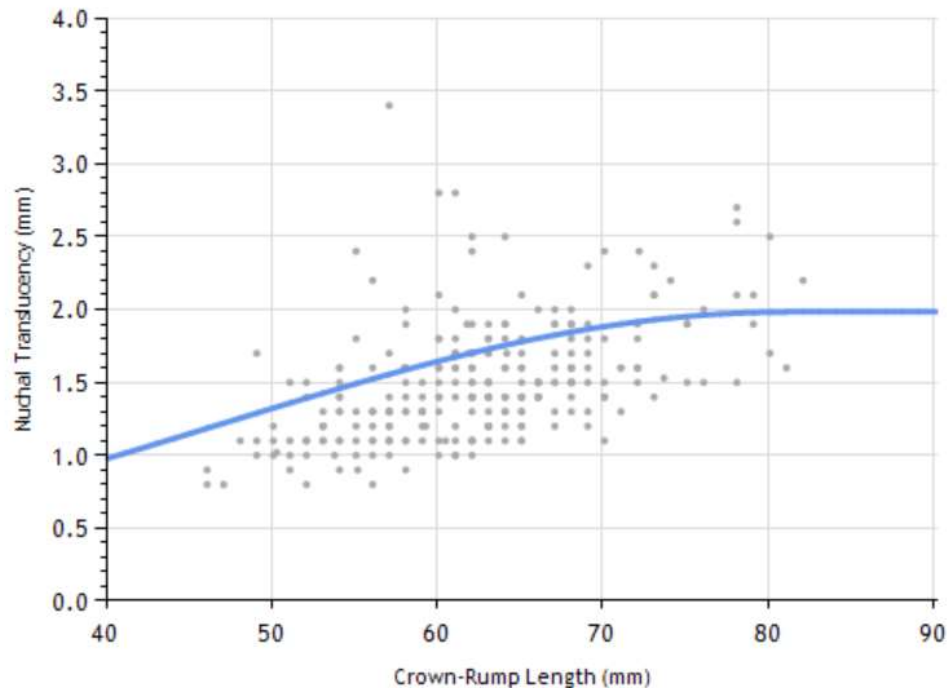


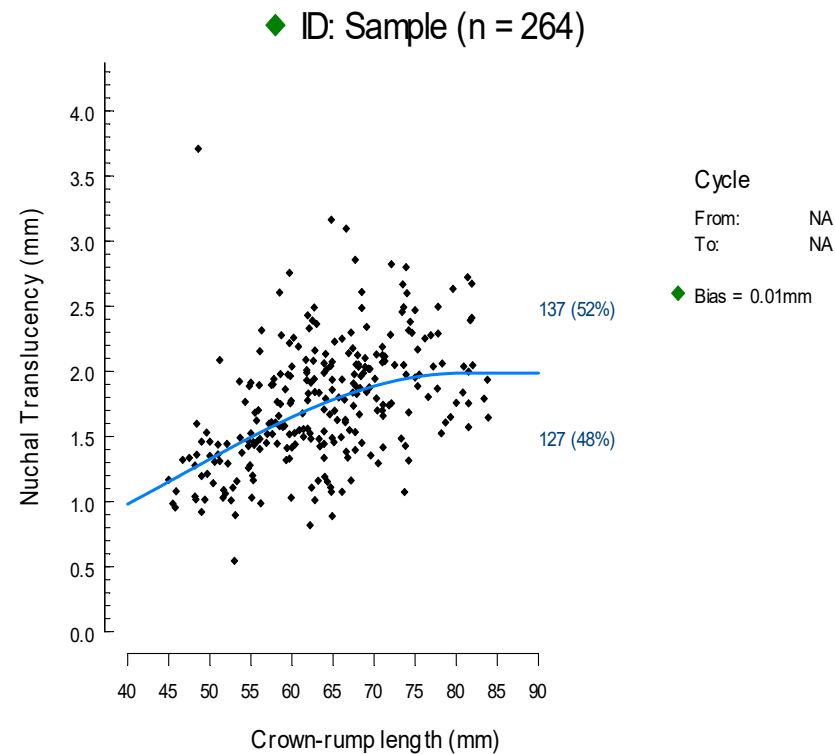
Scanner-Specific NT Performance Curve



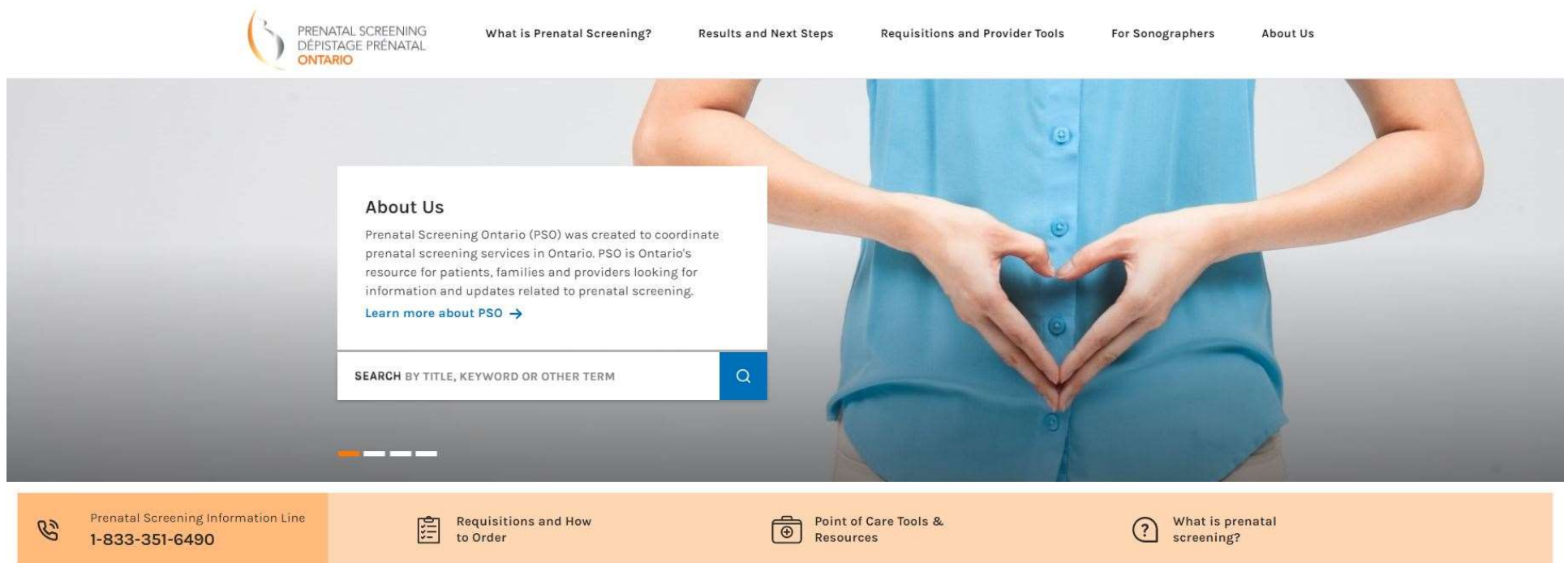
Median bias	Spread	Trend	% of valid scans
◆ -0.26 mm	◆ 1.1	◆ 0.002	98

Report version: v1.1 (13-Sep-2017)

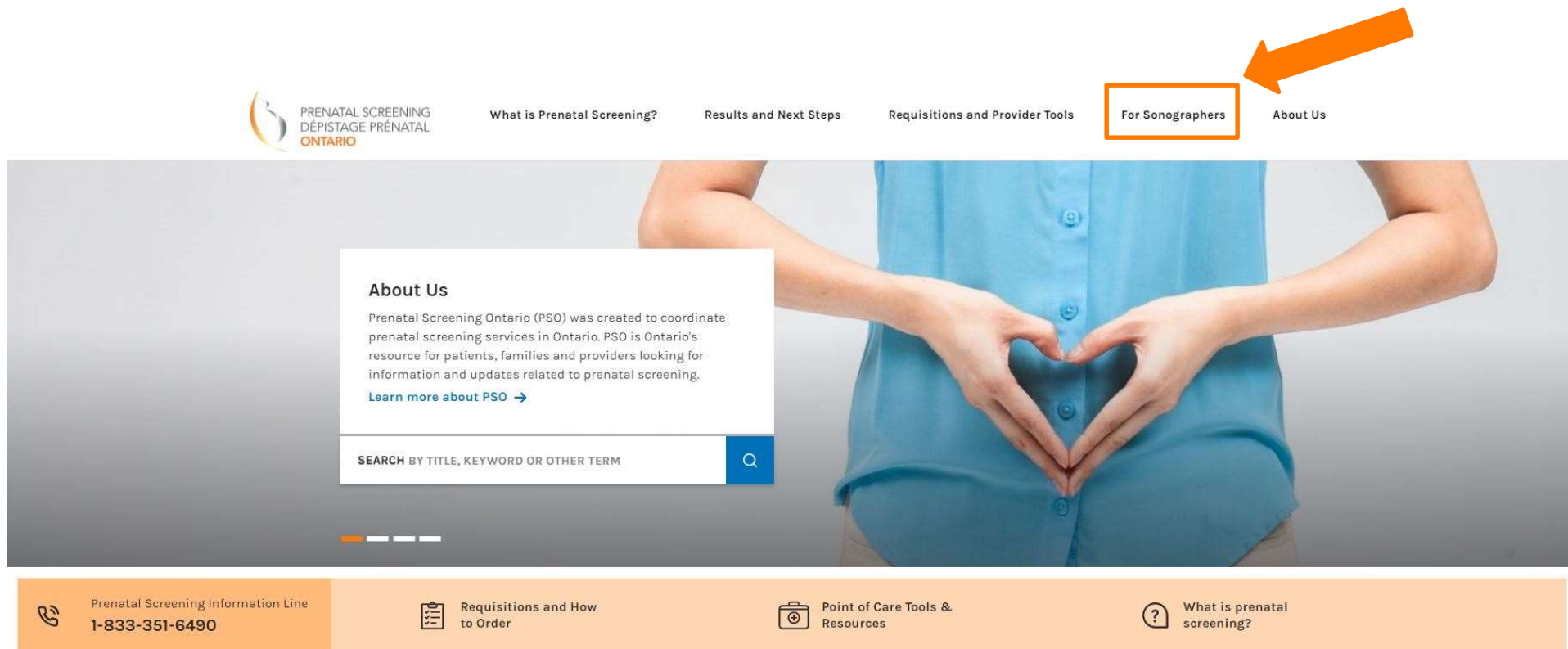
Logging in to the BIS to see your Curve



Step 1: Go to the Prenatal Screening Ontario (PSO) website at www.prenatalscreeningontario.ca



Step 2: Click on the “For Sonographers” heading at the top of the homepage



Step 3: Scroll down to the bottom of the page and click on the link “Log in” under the heading “Log in to the BORN Information System (BIS)”

For Sonographers

Prenatal Screening Ontario and Nuchal Translucency Quality Assurance

+

Nuchal Translucency Registration

+

Nuchal Translucency Quality Assurance

+

Resources and Point of Care Tools

+

Log in to the BORN Information System (BIS)

—

Log in to the BIS if you have already registered with PSO at BORN Ontario (i.e., you have a PSO/BORN username and password), and you would like to do the following:

- **Update** your personal contact details
- **View** your personalized NT performance distribution

The links above will give you step-by-step instructions on how to log in to the BIS, update your personal contact details, and view your personalized NT performance distribution.

If this is your first time logging in since June 1, 2020, you must reset your password and set up multifactor authentication.

STEP 1. Reset your password and set up your multifactor authentication

Existing BIS users: You only need to complete this step once

New BIS users: Skip this step; go directly to STEP 2

If you authenticate
with a PIN code

If you authenticate
with PHONE



**Sonographers will authenticate
with PHONE**

Step 4: Select Log in and authenticate with PHONE

STEP 2. Log in to the BIS

Log in and authenticate with PIN

Log in and authenticate with PHONE



IMPORTANT!

If you need additional help, guides are found below the login as well as a method of contacting BORN if you are having trouble with your password

STEP 2. Log in to the BIS

Log in and authenticate with PIN

Log in and authenticate with PHONE

Problem logging in?

Log in Guides:

Existing BIS User - Authenticate with PIN

Existing BIS User - Authenticate with PHONE

New BIS User - Authenticate with PIN

New BIS User - Authenticate with PHONE

Contact BORN

Step 5: Login to the BIS

Authenticate with Phone

Username

Password

SIGN IN

BACK

[Forgot Password?](#)

If your phone number changes, you **MUST** contact the BORN helpdesk (1-855-881-BORN (2676))

To receive a text or phone call you **MUST** use a cell phone or landline that **DOES NOT** have an extension

Problems logging in?

[Please contact your local administrator](#)

[Please contact the BORN helpdesk 1-855-881-BORN \(2676\)](#)

[How to login guide](#)

Other BORN Resources

[BIS new features](#)

[BORN Information System - User Guide](#)

[BORN Downtime Forms](#)

[Maternal Newborn Dashboard KPI Criterion Reference Guide v2.0](#)

[NICU/SCN Dashboard KPI Criterion Reference Guide](#)

[BORN in the News](#)

[Join the BORN Distribution List](#)

Step 6: Authenticate with the phone number you provided at setup

Authenticate with Phone

Phone Number

XXX-XXX-XXXX

SEND CODE

CALL ME

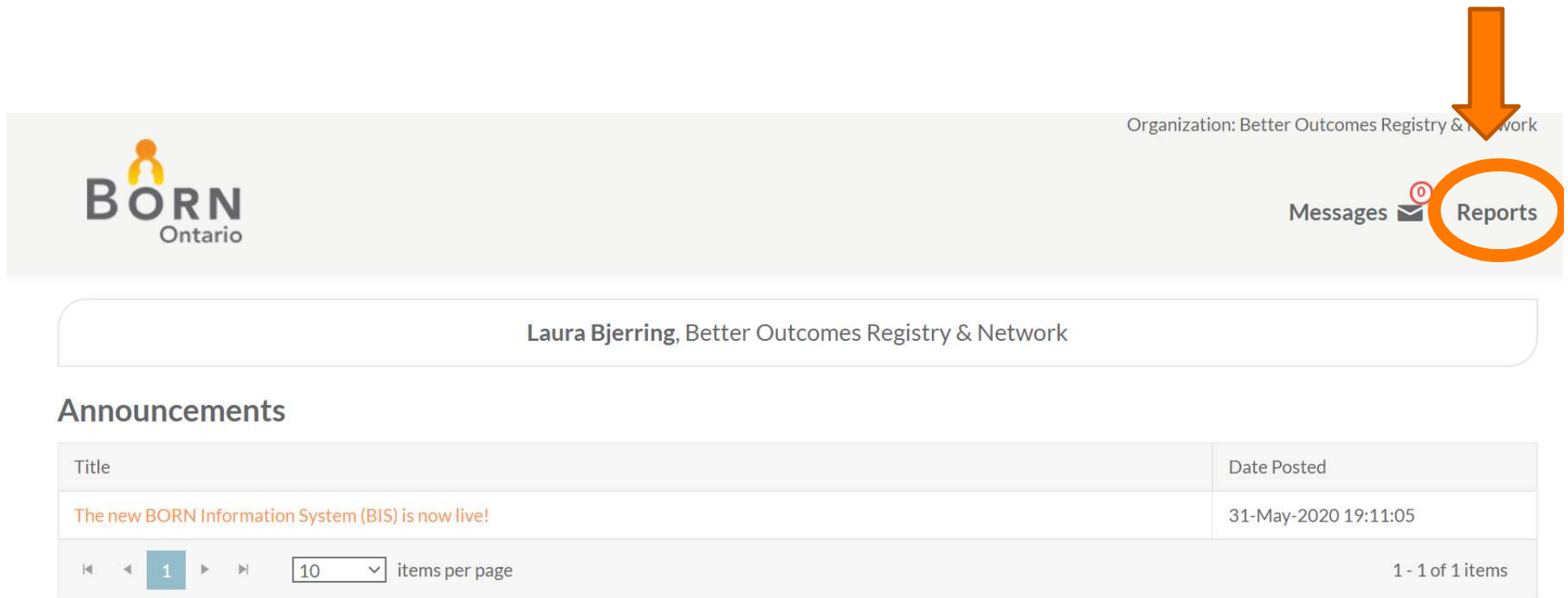
BACK

[Forgot Password?](#)

If your phone number changes, you **MUST** contact the BORN helpdesk (1-855-881-BORN (2676))

To receive a text or phone call you **MUST** use a cell phone or landline that **DOES NOT** have an extension

Step 7: Select Reports



The screenshot shows the BORN Ontario web application interface. At the top left is the BORN Ontario logo. At the top right, the text 'Organization: Better Outcomes Registry & Network' is displayed. Below this, there are two navigation links: 'Messages' with an envelope icon and a red notification bubble containing the number '0', and 'Reports' which is circled in orange. A large orange arrow points down towards the 'Reports' link. Below the navigation bar, a white box contains the name 'Laura Bjerring, Better Outcomes Registry & Network'. Underneath this is a section titled 'Announcements'. It contains a table with one row of announcement data. At the bottom of the announcements section, there is a pagination control showing '1' as the current page, a dropdown menu set to '10' items per page, and the text '1 - 1 of 1 items'.

Organization: Better Outcomes Registry & Network

BORN
Ontario

Messages  ⁰ **Reports**

Laura Bjerring, Better Outcomes Registry & Network

Announcements

Title	Date Posted
The new BORN Information System (BIS) is now live!	31-May-2020 19:11:05

« ‹ 1 › » 10 items per page 1 - 1 of 1 items

Step 8: Select Clinical Reports

[Homepage](#) → Reports

Reports

DASHBOARDS

CLINICAL REPORTS

Step 9: Select Individual Sonographer Curve

DASHBOARDS

CLINICAL REPORTS

Clinical Reports

Please select reporting periods from April 1, 2012 onward.

PSP Reports

Click on a Report Name link to view the report

Report Name	Description	Report Update Timing
PSP NTQA - Individual Sonographer Curve	BORN collects NT and CRL measurement information from patients' eFTS requisitions and records them under sonographers' NT ID codes. Sonographers' NT measurements (X-axis) are plotted against their paired CRL measurements (Y-axis) and are used to create personalized distributions over the 11 to 14 week gestational period. These personalized distributions can be used to compare sonographers NT measurements with the expected normal population distribution established by the Fetal Medicine Foundation. Sonographers use their personalized distributions to monitor their own NT measurement performance, ensuring that their NT practice meets the standard set by the FMF UK (via performance indicators bias, spread, and trend).	One day lag

Step 10: Select the **Date Range** you would like to review

PSP NTQA - Individual Sonographer Curve

Start Date: 6/2/2020 End Date: 6/2/2020

Sonographer: <Select a Value> ▼

View Report

Step 11: select your NT number under “Sonographer”

PSP NTQA - Individual Sonographer Curve

Start Date:  End Date: 

Sonographer:

[View Report](#)



Note: Only your NT number will be available in the drop down menu

Step 12: Select View Report

PSP NTQA - Individual Sonographer Curve

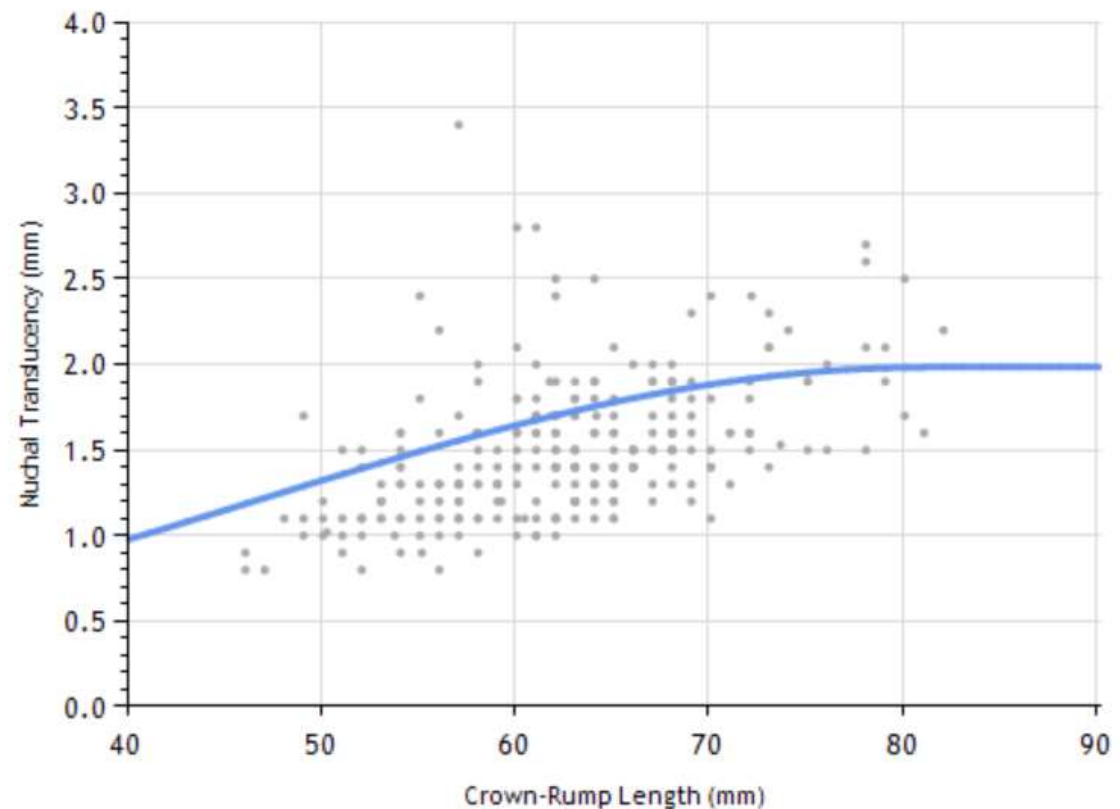
Start Date:  End Date: 

Sonographer:

[View Report](#)

Note: You may have to select “view report” twice for the report to load

Interpreting the results



Median bias	Spread	Trend	% of valid scans
◆ -0.26 mm	◆ 1.1	◆ 0.002	98

The distribution of your nuchal translucency measurements

You have examined a total of 254 fetuses and the nuchal translucency measurement was above the median in 25.6% of cases. The figure above represents your individual measurements plotted on the normal range (the line represents the expected curve of the 50th centile).

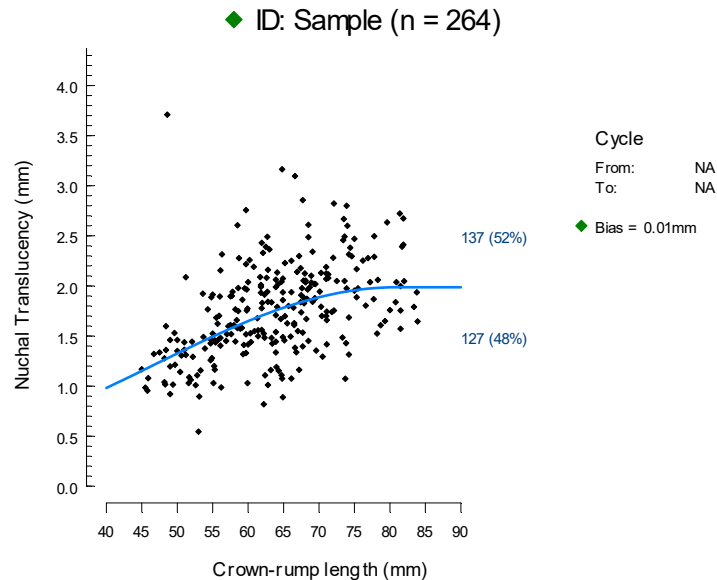
For those scanning a normal population and taking measurements according to the Fetal Medicine Foundation guidelines, we would expect the nuchal translucency measurements to be above the median in 40-60% of cases, and to follow the trend of the 50th centile curve. A deviation from this could indicate an under or over-estimation of the measurements, or other errors. For a representation of an ideal distribution of NT measurements, please visit the BORN website at <http://www.bornontario.ca/en/special-projects/nuchal-translucency-qa---provider-registration/>.

Scanner-specific curves

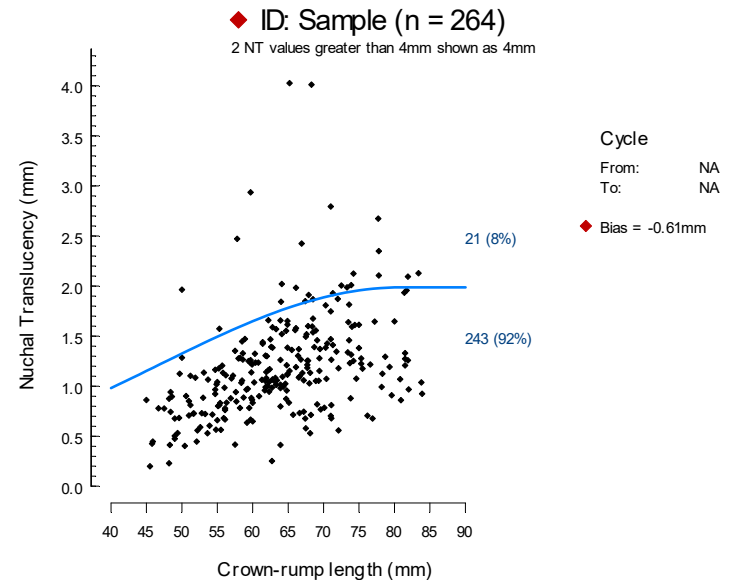
- Used to monitor the overall performance and consistency of each sonographer when scanning NT ultrasounds using three criteria:
 - **Bias**
 - **Spread**
 - **Trend**

Compared to the normal FMF (UK) curve as established on a large population.

NTQA Report: Bias



Acceptable Curve



Unacceptable Bias

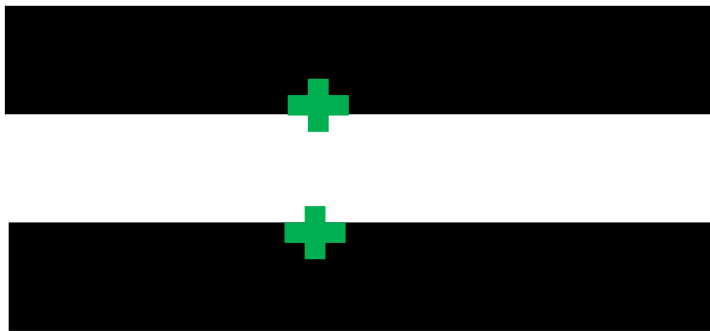
Bias: indicates the position of the majority of data points with respect to the vertical axis and relative to the median. A negative bias indicates chronic under-measurement with the majority of data points falling below the median. A positive bias indicates chronic over-measurement with the majority of data points measuring above the median.

Negative Bias

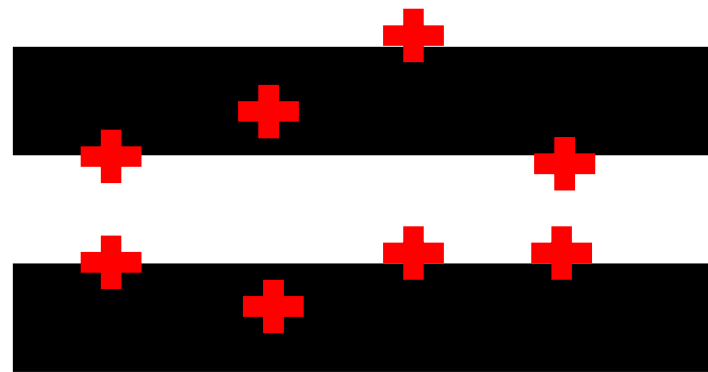
The most common parameter to fall outside of the acceptable range is bias, and most commonly a **negative bias**. Some common reasons a negative bias occurs:

- Incorrect caliper placement
- Not measuring the **widest** portion of the NT
- Image not obtained in the midline sagittal plane of the fetus
- **Largest** NT obtained not recorded on requisition
- Inadequate use of zoom
- Over-gaining of image causing fill-in of the anechoic NT

+NT Calliper Placement+

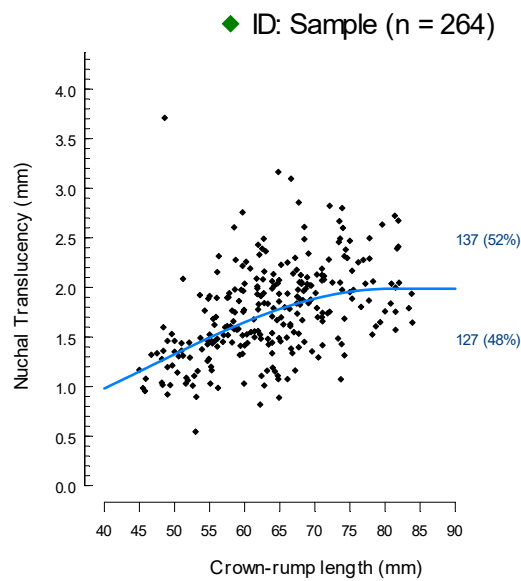


CORRECT

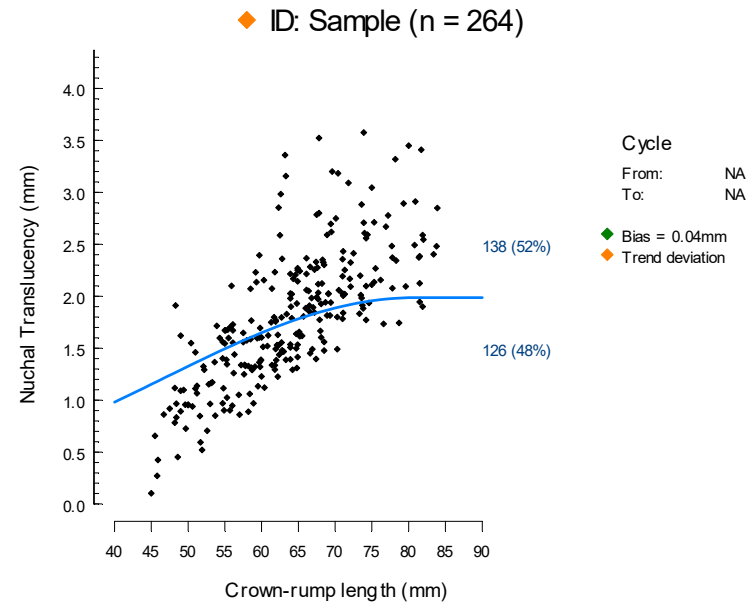


INCORRECT

NTQA Report: Trend



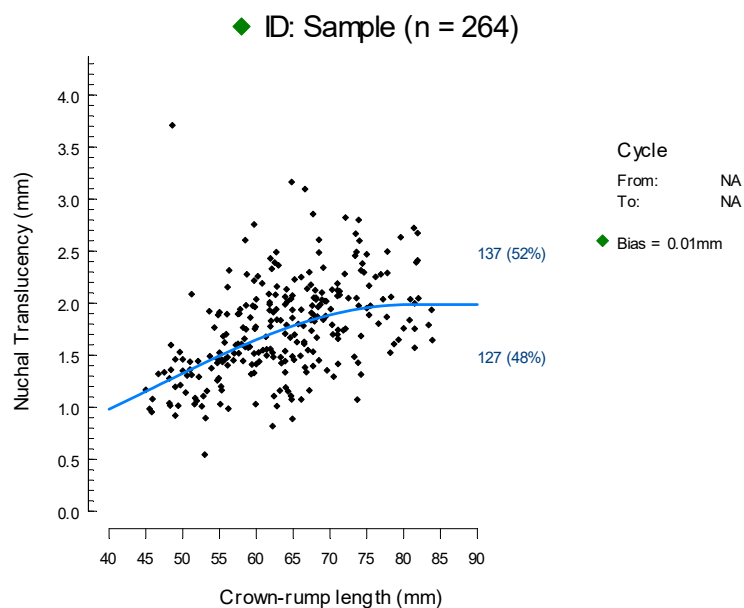
Acceptable Curve



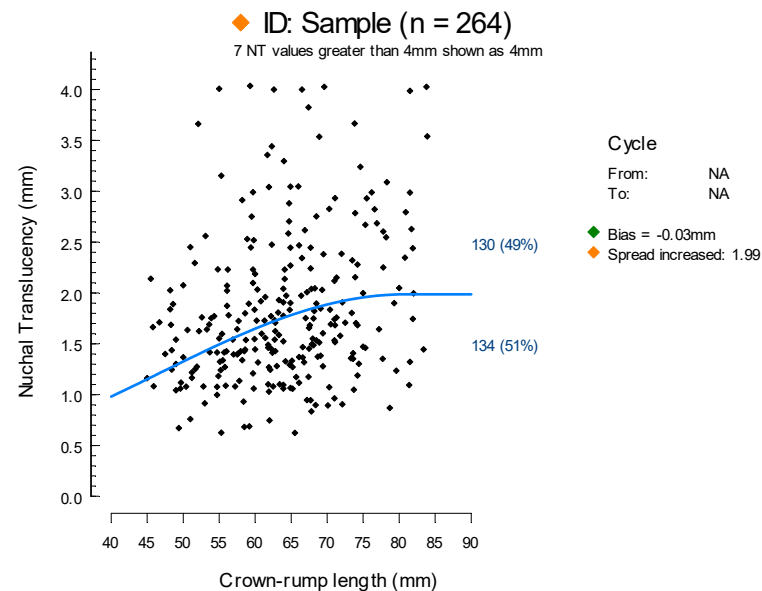
Unacceptable Trend

Trend: indicates the shape of the curve with respect to the median. The data points should follow the general shape (or trend) of the median. A steep trend indicates under-measurement at smaller CRL's, and over-measurement at larger CRL's. A flattened trend indicates consistently obtaining a similar NT measurement across all CRL's, however, NT size should generally increase with increasing CRL.

NTQA Report: Spread



Acceptable Curve

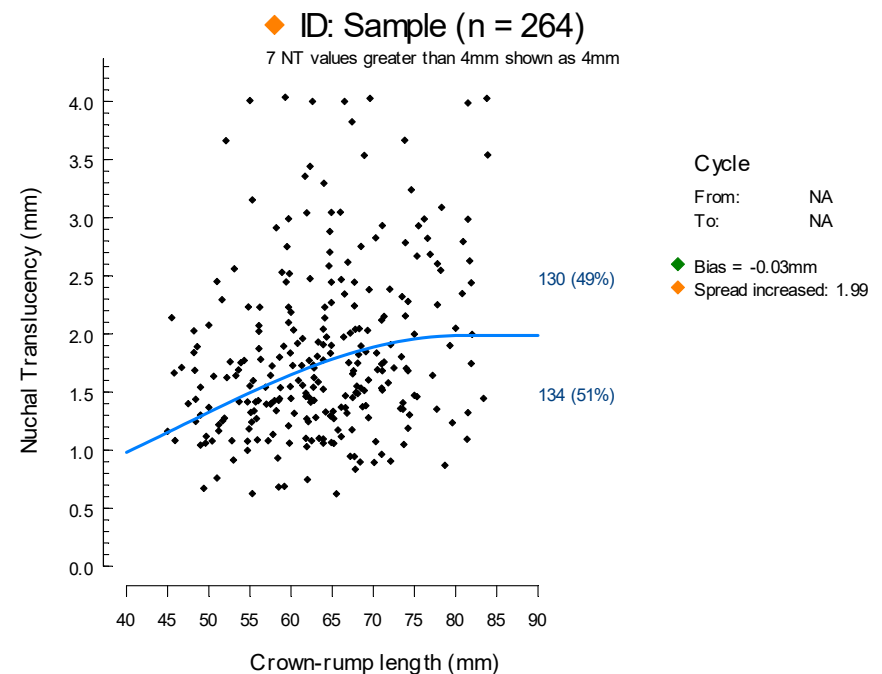


Unacceptable Spread

Spread: describes how closely the data points hug the median line. A tight spread (minimal spread) indicates data points close to what is expected in a normal population. Wide spread indicates inconsistent measurement of the NT or possibly more than one sonographer submitting data points under a single NT ID number.

Protect your **Number**, Protect your **Curve**!

- If you allow your colleagues to use your NT ID number, your curve will share the scanning habits of other sonographers.
- This can have a dramatic negative effect on the **spread** of your curve.



What happens to our patients when we share our NT ID numbers?

- When multiple sonographers scan under a single NT ID number, their shared NT and CRL data points are used to create a single curve.
- The coefficient used to correct a curve created by a shared NT ID number is not accurate because it can't account for the different scanning habits of multiple sonographers.
- The prenatal screening results generated by this shared curve and inaccurate coefficient are skewed.
- NT ID number sharing **reduces the accuracy of patients' prenatal screening tests!**

Protect your **Number**, Protect your **Curve**!

**Your curve reflects the quality of your work.
Maintain the integrity of your curve by making
sure that you are the only sonographer
contributing to it.**

**It is a privilege to perform nuchal translucency
scans. Make sure that you are protecting your
patients, your number, and your curve!**