

# International Newborn Size Standards

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Windows application user guides



1. Open application
2. Compare batches of data to standards
3. Compare a single entry to standards

# HOW TO

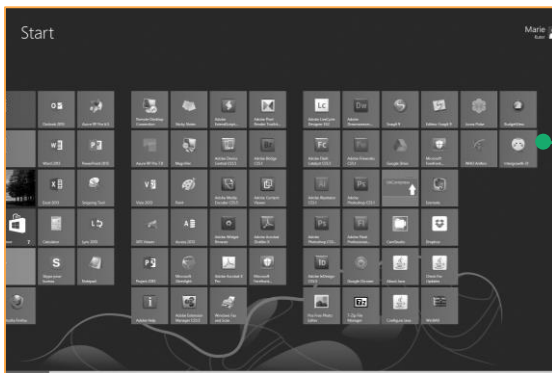
## 1. OPEN APPLICATION

### WHERE TO FIND INSTALLATION PACKAGE

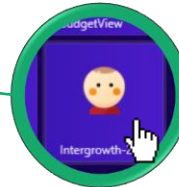
The International Newborn Size Standards Windows application can be downloaded from the INTERGROWTH-21<sup>st</sup> website: <http://www.intergrowth21.tghn.org> Proceed to installation on your computer. You might be requested to allow permissions.

### HOW TO OPEN THE APPLICATION

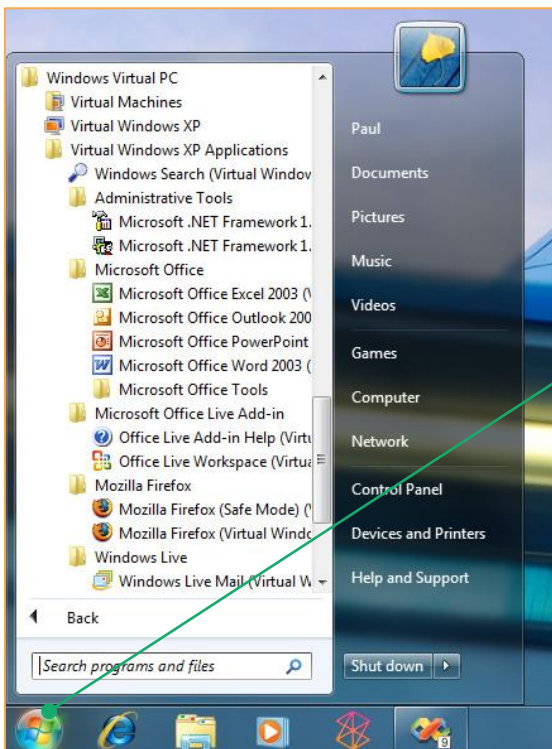
#### On Windows 8



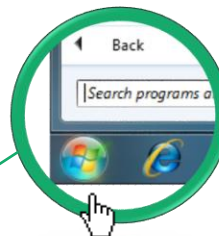
Open the INTERGROWTH-21<sup>st</sup> application



#### On previous versions of Windows



Click on the dashboard icon at the bottom left of your screen. Then select the INTERGROWTH-21<sup>st</sup> application from the list.



# HOW TO

## 2. COMPARE THE SIZES OF MANY NEWBORNS TO THE STANDARDS

### WHAT THE SYSTEM CAN DO FOR YOU

The application allows you to upload a CSV or text file with biometry data for an unlimited number of newborns (as an input), and download a file with z-scores and centiles for all biometry data (as an output).

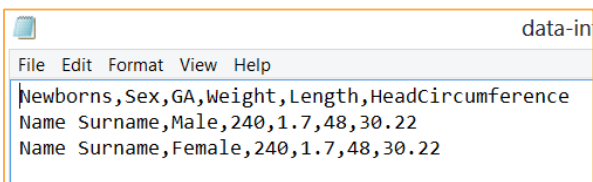
### HOW TO PROCEED

#### 1. Make sure your file is ready

- ✓ \*.CSV or \*.TXT extension
- ✓ CSV file contains a header row with the following columns (case-sensitive): Sex, GA (for gestational age in days), Weight, Head Circumference and Length.

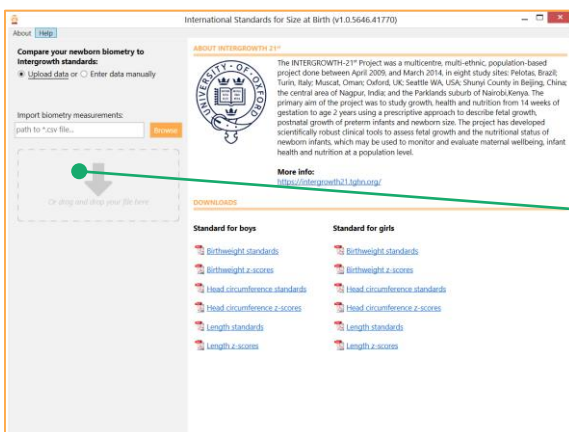
	A	B	C	D	E	F	G
1	Newborns	Sex	GA	Weight	Length	HeadCircumference	
2	Name Surname	Male	240	1.7	48	30.22	
3	Name Surname	Female	240	1.7	48	30.22	

- ✓ Text file contains the header and columns, separated with «,» or «;».

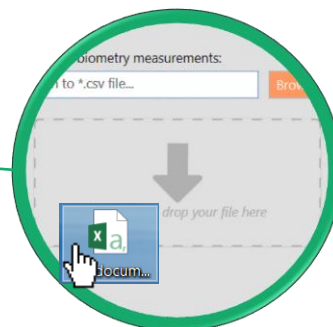


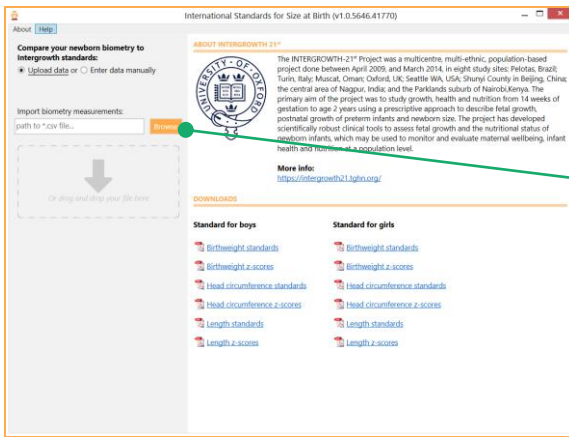
#### 2. Open application

#### 3. Upload your file

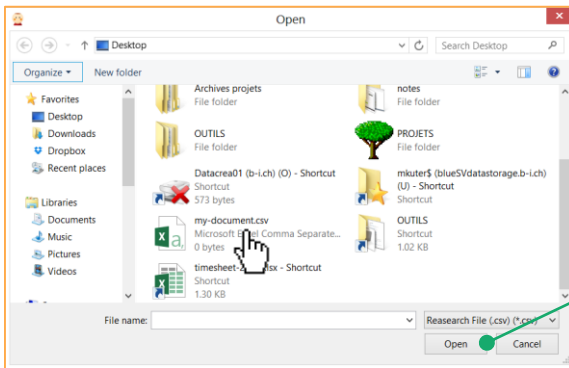
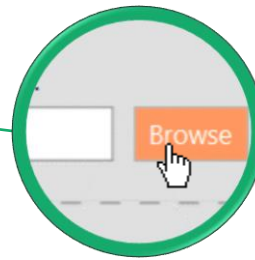


Either drag and drop your file from your computer to the dedicated zone, as follows...

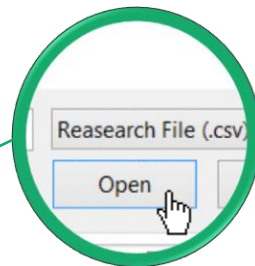




...or click on the Browse button

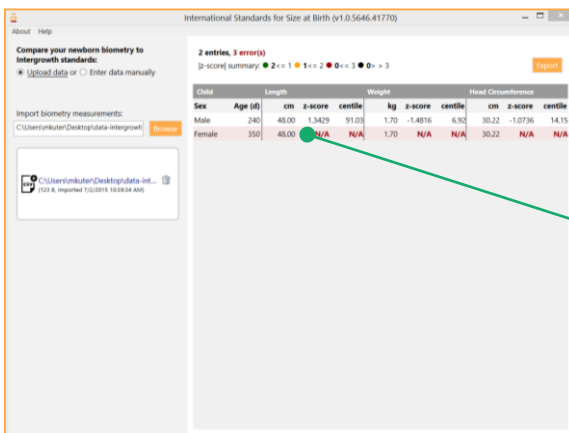


Select your file on your computer, then click on Open.



At this stage, the system will read and check your file. If it does not comply with the required formats (view first page for more details), an error message will be displayed. In this situation, please check that your file is compliant, and start again from step 2.

#### 4. Read data

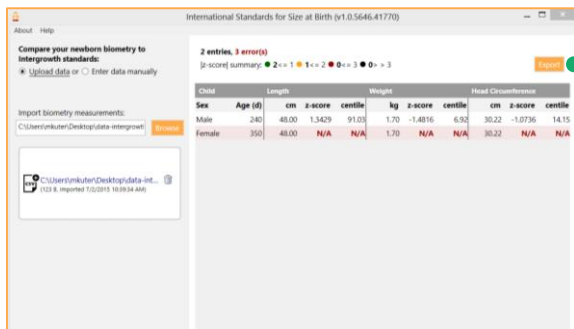


View all files with z-scores and centiles for all biometry data.

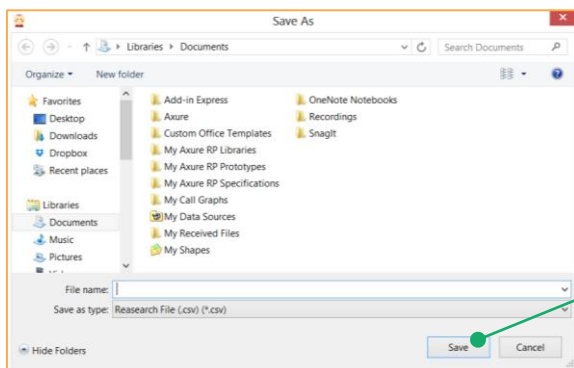
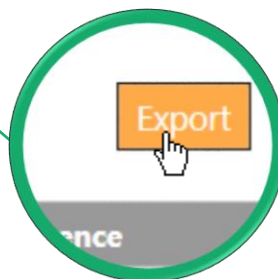
Length		
cm	z-score	centile
48.00	1.3429	91.03
48.00	N/A	N/A

If a data point is outside of the range of the standards, an N/A (Not Applicable) message will be displayed. Lines containing N/A will be highlighted in red.

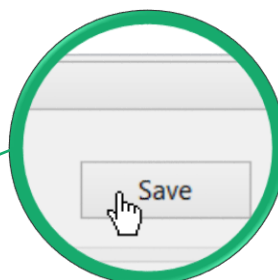
## 5. Export data



Click on the Export button on the top right of the screen.



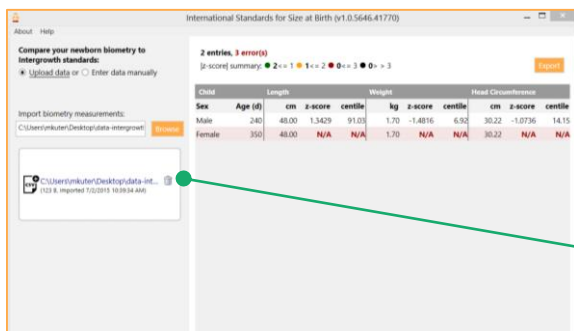
Then select a location for your file, enter a name, and click on Save.



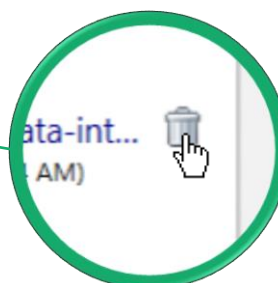
As an output, the exported file is a \*.CSV with new z-score and centile columns for each measure (birthweight, length and head circumference).

	A	B	C	D	E	F	G	H	I
1	Sex	Age	Length	LengthZScore	LengthCentile	Weight	WeightZScore	WeightCentile	HeadCircumference
2	Male	240	48	1.3429	91.03	1.7	-1.4816	6.92	30.22

## 6. Compare a new batch of data



To upload a new \*.CSV or \*.TXT file for comparison with the standards, first remove the previous file by clicking on the trash bin icon.



Then start again from step 3.

# HOW TO

## 3. COMPARE A SINGLE ENTRY TO THE STANDARDS

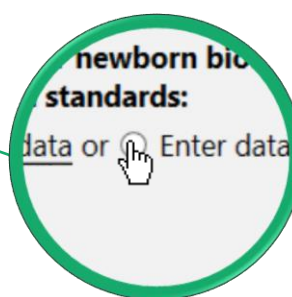
### WHAT THE SYSTEM CAN DO FOR YOU

The application allows you to enter data (birthweight, length, and head circumference) manually for one newborn at a time (as an input), and view corresponding z-scores and centiles as an output and graphically.

### HOW TO PROCEED

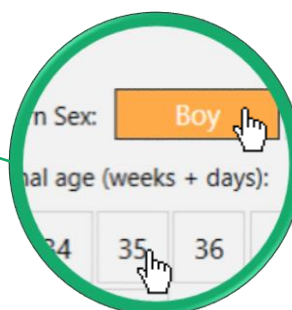
#### 1. Select Manual entry mode

Click on radio button Enter data manually. This will toggle from Data batch upload to manual entry.

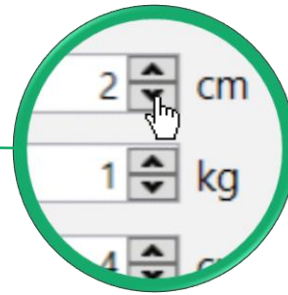


#### 2. Enter data manually

Select sex and gestational age by clicking on the relevant sex, weeks and days.



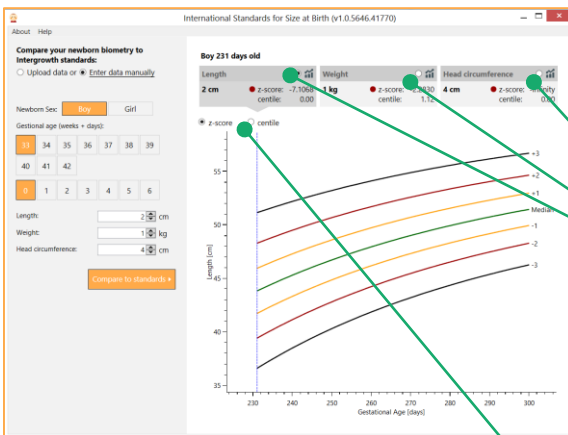
Enter length, weight and / or head circumference measurements, either by typing in data or using up and down arrows on the right.




Click on Compare to standards button



### 3. Play with results and graph



Use radio buttons with the  icon to change biometry shown on the graph below (length, weight or head circumference).



Use the radio buttons on top of the graph to toggle between z-scores and centiles.

