

Program	Version	Country/Special	Doc ver	Written by	Date
Growth Chart Component	2.0	UK	3	Xue Shen	2019-01-16
Specification					Page
List of functions included in the Growth Chart Component					1/3

## Purpose

This document lists all the functionalities included in the Growth Chart Component UK 2.0.

<p><b>GROWTH CHARTS INCLUDED</b> (All charts have one layout for boys and one for girls)</p>
<p><b>Group UK 2-18 yrs:</b> Height Weight 2-18 yrs Height Weight 8-18 yrs Height 4-20 yrs Weight 4-20 yrs BMI 0-20 yrs</p>
<p><b>Group 0-4 yrs:</b> Heac circ. Length Weight 0-1 yr Heac circ. Length Weight 1-4 yrs</p>
<p><b>Group PCHR:</b> Weight Head circ. 32-42 weeks Weight 0-1 yr Weight 1-4 yrs Length 0-2 yrs Height 2-4 yrs Head circ. 0-2 yrs</p>
<p><b>Group NICM:</b> Length Head Weight 23-42 weeks Length Head Weight 2 weeks - 6 months Length Head Weight 6 months - 2 years</p>
<p><b>Group Measurement:</b> Height Weight Head circ. Sitting height Arm span Foot length Waistline</p>
<p><b>Group SDS:</b> Height SDS, BMI SDS Height SDS, Relative Sitting Height SDS BMI SDS, Waistline SDS Height SDS, Height Velocity SDS</p>

<p><b>Group Calculated:</b>          Leg length          Height velocity          Sitting height velocity          Leg length velocity          Relative sitting height          BMI          BMI (IOTF)</p>
<p><b>Group Turner syndrome</b> (for girls only):          Length Weight Head circ. 0-1 yr, preterm 32-42 weeks          Height Weight Head circ. 1-4 yrs          Height Weight BMI 2-8 yrs (girls), 2-9 yrs (boys)          Height Weight BMI 8-18 yrs (girls), 9-18 yrs (boys)</p>
<p><b>Group Down syndrome:</b>          Length Weight Head circ. 0-1 yr, preterm 32-42 weeks          Height Weight Head circ. 1-4 yrs          Height Weight BMI 2-8 yrs (girls), 2-9 yrs (boys)          Height Weight BMI 8-18 yrs (girls), 9-18 yrs (boys)</p>
<p><b>Group Lists:</b>          Visit list          Visit list (SDS)          Visit list (Perc)          Visit list, corrected age (SDS)          Visit list, corrected age (Perc)</p>
<p><b>Group Premature:</b>          Premature 22-42 weeks          Premature 22-52 weeks</p>
<p><b>CHART FEATURES</b>  <i>Features available may differ depending upon the type of implementation. This is due to the constraints of each environment: Win32, web server or the GrowthXP web server. Functionality restricted is primarily related to interactivity with the chart or technical restrictions.</i></p>
<p>All charts and reports are printable.</p>
<p>Entire page listings will automatically overflow to generate more pages if data exceeds the number of lines in the data table on the page.</p>
<p>Copy chart to clipboard (Win32 version only), allows you to paste the chart image into another Windows application such as Word, PowerPoint etc.</p>
<p><b>Zoom capabilities:</b>          Page width, zoom to          Page height, zoom to          Free form zoom (Win32 and PC PAL web client only)          Navigation window (Win32)          Chart magnifier (Win32)          Coordinates and hair cross (Win32)</p>

**Display settings:** (available on applicable charts and reports)

Plot Today line  
Draw line between measurements  
Make chart anonymous  
Hide patient data  
Show corrected age curve for premature children (GA <37 weeks)  
Show bone age  
Show pubertal section  
Plot target height and parental heights  
Show visits in descending order (in data tables)  
Show shadow reference (on syndrome charts)  
Switch age range 1 year "window" / 20 year "window" (charts will automatically adjust above 20 years in steps of 5 years)  
Switch reference type (percentile/SD)

**Save as:**

PDF  
JPEG  
GIF  
PNG  
BMP  
EMF

Graphics options

Display formats: date formats and numerical display formats are automatic and/or configurable.

**VARIABLES****Variables - once per patient:**

Local ID  
Birth date  
Gender  
First name  
Surname  
Gestational age, completed weeks  
Gestational age, additional days  
Birth weight  
Birth length  
Birth head circumference  
Mother's height  
Mother's weight  
Mother's head circumference  
Father's height  
Father's weight  
Father's head circumference  
Menarche date

**Variables - once per visit:**

Visit date  
 Height  
 Weight  
 Head circumference  
 Pubic hair (Tanner stage 1-5)  
 Breast (girls) or genital stage (boys) (Tanner stage 1-5)  
 Testicular volume left and right (for boys only)  
 Evaluation method (self estimate or observed)  
 Bone age in graph  
 Bone age method in chart (label)  
 Additional comments  
 Menarche (for girls only)  
 Sitting height  
 Arm span  
 Waist line

**CALCULATIONS**

**Relation to statistical dispersion (per variable):**

Percentile  
 Standard deviation score (z-score)

**Basic:**

BMI  
 Leg length  
 Relative sitting height

**Age:**

Chronological age  
 Gestational corrected age

**Target height**

**Velocity:**

Height velocity  
 Leg length velocity  
 Sitting height velocity