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|--|---------|-----------------|---------|------------|------------|
| Program  | Version | Country/Special | Doc ver | Written by | Date       |
| Growth Chart Component                                   | 2.0     | US              | 2       | Xue Shen   | 18/10/2012 |
| Specification  |         |                 |         |            | Page       |
| List of functions included in the Growth Chart Component |         |                 |         |            | 1/4        |

## Purpose

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

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| <p><b>GROWTH CHARTS INCLUDED</b><br/>(All charts have one layout for boys and one for girls, except the Turner charts that are only for girls)</p>   |
| <p>Group Individual:</p> <ul style="list-style-type: none"> <li>-Length 0-2 years (WHO)</li> <li>-Weight 0-2 years (WHO)</li> <li>-Head circumference 0-2 years (WHO)</li> <li>-Weight for length 0-2 years (WHO)</li> <li>-Stature 2-20 years</li> <li>-Weight 2-20 years</li> <li>-BMI 2-20 years</li> </ul>   |
| <p>Group Clinical:</p> <ul style="list-style-type: none"> <li>-Length and weight 0-2 years (WHO)</li> <li>-Head circumference and weight for length 0-2 years (WHO)</li> <li>-Weight and Stature 2-20 years</li> <li>-Weight for stature</li> <li>-BMI 2-20 years</li> </ul>   |
| <p>Group WIC:</p> <ul style="list-style-type: none"> <li>-Length and weight 0-2 years (WHO)</li> <li>-Head circumference and weight for length 0-2 years (WHO)</li> <li>-Stature and weight 2-5 years</li> <li>-BMI 2-5 years</li> </ul>   |
| <p>Group 0-36 months</p> <ul style="list-style-type: none"> <li>-Length 0-3 years</li> <li>-Weight 0-3 years</li> <li>-Head circumference 0-3 years</li> <li>-Weight for length 0-3 years</li> <li>-Length and weight 0-3 years</li> <li>-Head circumference and weight for length 0-3 years</li> <li>-Length and weight 0-3 years</li> <li>-Head circumference and weight for length 0-3 years</li> <li>-Turner Length and weight 0-3 years</li> <li>-Down Length and weight 0-3 years</li> </ul> |
| <p>Group Measurement:</p> <ul style="list-style-type: none"> <li>-Height</li> <li>-Weight</li> <li>-Head circ.</li> <li>-Sitting height</li> <li>-Arm span</li> <li>-Foot length</li> <li>-Waist circ.</li> </ul>  |

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| <p>Group Calculated:<br/>         -Leg length<br/>         -Height velocity<br/>         -Sitting height velocity<br/>         -Leg length velocity<br/>         -Rel. sitting height<br/>         -BMI<br/>         -IOTF BMI</p>   |
| <p>Group Lists:<br/>         -Visit list<br/>         -SDS list<br/>         -Percentile list</p>  |
| <p>Group Premature:<br/>         -22-44 weeks<br/>         -22-52 weeks</p>  |
| <p>Group SD scores:<br/>         Height &amp; BMI<br/>         Height &amp; Relative sitting height<br/>         BMI &amp; Waist circ.<br/>         Height &amp; Height velocity</p>   |
| <p>Group Turner syndrome charts:<br/>         -Height and weight 0-2 years<br/>         -Height and weight 2-5 years<br/>         -Height and weight 2-20 years</p>  |
| <p>Group Down syndrome charts:<br/>         -Height and weight 0-2 years<br/>         -Height and weight 2-5 years<br/>         -Height and weight 2-20 years</p>  |
| <p><b>CHART FEATURES</b></p>   |
| <p>All charts are printable</p>  |
| <p>Entire page listings will automatically overflow to generate more pages if data do not fit the desired page</p>   |
| <p>Copy chart to clipboard: to paste the chart image in another application such as e.g. Word, Power Point etc.</p>  |
| <p><b>Display setting:</b><br/>         - Chart language (English, Spanish &amp; French)<br/>         - Plot Today line<br/>         - Draw line between measurements<br/>         - Make chart anonymous<br/>         - Hide patient data<br/>         - Show corrected age curve for premature children (GA &lt;37 weeks)<br/>         - Show bone age<br/>         - Show pubertal section<br/>         - Plot target height and parental heights<br/>         - Show visits in descending order<br/>         - Show visit table<br/>         - Show Comments in visit table<br/>         - Show shadow reference<br/>         - Switch age range 0-1yr / 0-20 yrs<br/>         - Switch reference type (percentile/SD)</p> |
| <p><b>Zoom capabilities:</b><br/>         Page width<br/>         Page height<br/>         Free form<br/>         Navigation<br/>         Magnifier<br/>         Coordinates</p>   |

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| <p><b>Save as:</b><br/> PDF<br/> JPEG<br/> GIF<br/> PNG<br/> BMP<br/> EMF</p>   |
| Graphics options  |
| Display formats   |
| <b>VARIABLES</b>  |
| <p><b>Variables entered once per patient:</b><br/> Local ID<br/> Birth date<br/> Gender<br/> First name<br/> Surname<br/> Gestational age, completed weeks<br/> Gestational age, additional days<br/> Birth weight<br/> Birth length<br/> Birth head circumference<br/> Mother's height<br/> Mother's weight<br/> Mother's head circumference<br/> Father's height<br/> Father's weight<br/> Father's head circumference<br/> Menarche date (for girls only)</p>  |
| <p><b>Variables entered once per visit:</b><br/> Visit date<br/> Height<br/> Weight<br/> Head circumference<br/> Pubic hair (stage 1-5 according to Tanner)<br/> Breast (girls) or genital stage (boys) (stage 1-5 according to Tanner)<br/> Testicular volume left and right (for boys only)<br/> Evaluation method (self estimate or observed)<br/> Bone age in graph<br/> Bone age method in graph<br/> Additional comments<br/> Menarche (for girls only)<br/> Sitting height<br/> Arm span<br/> Foot length<br/> Waist line<br/> Height measure type</p> |
| <b>CALCULATIONS</b>   |
| <p><b>Relation to statistical dispersion:</b><br/> Percentile<br/> Standard deviation score</p>   |
| <p><b>Basic:</b><br/> BMI<br/> Leg length<br/> Relative sitting height</p>  |
| <p><b>Age:</b><br/> Chronological age<br/> Gestational corrected age</p>  |
| <b>Target height</b>  |

**Velocity:**

Height velocity

Leg length velocity

Sitting height velocity