

Program Tillväxtjournalen	Version 1.02	Country/Special Sweden	Doc ver 2	Written by Danuta Herzog	Date 2009-03-31
Specification List of functions included in Tillväxtjournalen 1.02					Page 1/4

## Purpose

This document lists all the functionality included in Tillväxtjournalen version 1.02. It also displays the differences between the functionality included in the server version and the stand alone version.

## List of functionality

	Server version	Stand alone
<b>GENERAL FUNCTIONALITY</b>		
Search patient -search on patient ID, or from list showing the latest patients selected	√	√
Select patient	√	√
Create new patient	√	√
Delete patient -For the Server version the deleted data is kept in the database (for the Audit Trail) -For the Stand alone version the data is completely removed	√	√
Edit patient details -name, social security number, sex	√	√
Select visit -via timeline, dropdown visitlist or < > buttons	√	√
Create new visit	√	√
Delete visit	√	√
Edit visit date	√	√
Save data	√	√
Cancel changes -when selecting another patient or when logging off, the user is asked to save or cancel the entered data	√	
<b>DATA ENTRY / VARIABLES INCLUDED</b> The following variables can be entered into the application:		
<b>Variables entered once per patient:</b>		
Local ID	√	√
Birth date	√	√
Sex	√	√
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	√	√
Date of menarche (for girls only) -can handle incomplete dates	√	√

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<b>Variables entered once per visit:</b>		
Visit date	√	√
Measured at -free text field	√	√
Height	√	√
Weight	√	√
Head circumference	√	√
Sitting height	√	√
Pubic hair stage -stage 1-5 according to Tanner	√	√
Breast (girls) or genital stage (boys) -stage 1-5 according to Tanner	√	√
Testicular volume left and right (for boys only)	√	√
Add additional comments -for Patient/Birth and Visit sections there is a possibility to enter additional comments if needed	√	√
<b>DATA ENTRY VALIDATION</b>		
Patient ID validation -checks the Swedish standard social security number and temporary social security numbers	√	√
Data entry validations -all measurements are checked to see if the values entered are reasonable -there are both hard and soft ranges in the validation, the hard range stops the user from entering a value that is out of range. The soft range gives a warning to the user that the value might not be correct, but the user can ignore the warning.	√	√
<b>CALCULATIONS</b> The following calculations are automatically performed in the application when patient and visit data has been completed:		
<b>Calculations made for each patient:</b>		
Age, chronological	√	√
Birth weight SDS	√	√
Birth length SDS	√	√
Birth head circumference SDS	√	√
Target height, cm	√	√
Target height SDS	√	√
Mother's BMI	√	√
Father's BMI	√	√
<b>Calculations made for each visit:</b>		
BMI kg/m <sup>2</sup>	√	√
BMI SDS	√	√
Body Surface Area, m <sup>2</sup>	√	√
Weight for height, %	√	√
Height SDS	√	√
Weight SDS	√	√
Height SDS, corrected for target height SDS	√	√
Height velocity, cm/year	√	√
Height velocity SDS	√	√
Height velocity Interval	√	√
Height velocity Mean Age	√	√
Sitting height velocity, cm/year	√	√
Leg length	√	√
Leg length velocity, cm/year	√	√

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<b>GROWTH CHART FEATURES</b>		
<b>Selection/display of the following charts:</b>		
Group Svenska: -BVC, sida 1 med prematurkurva samt längd, vikt och huvudomfång 0-2 år. -BVC, sida 2 med längd, vikt och huvudomfång 2-7 år. -Skola, längd, vikt och huvudomfång 5-18 år. -Skola, BMI, 2-18 år. -Sjukvård, BMI, 2-18 år.	√	√
Group Turner: -Turners syndrom kurvor (BVC 0-2, 2-7 år och Skola 5-18 år, för variablerna längd, vikt, huvudomfång. BMI 2-18 år)	√	√
Group Down: -Downs syndrom kurvor (BVC 0-2, 2-7 år och Skola 5-8 år, för variablerna längd, vikt, huvudomfång)	√	√
Group Utökade: -Kurvor med utökade SD markeringar (BVC 0-2, 2-7 år och Skola 5-8 år, för variablerna längd, vikt, huvudomfång)	√	√
Group Listor: -3 lists with table views of entered measurements (auxology and puberty, auxology including SDS, and birth data)	√	√
Group small charts: -mini-charts are displayed on data entry screens, featuring dynamic and instant plotting of the entered value on the chart. -the mini charts are displayed for the following sections: Birth, Auxology and Puberty for the variables length/height, weight, head circumference, sitting height, BMI and puberty.	√	√
<b>When viewing the charts the following features are available:</b>		
All charts are printable, including the mini charts on the data entry screens -print function activated when selected a specific chart, or standing on a specific data entry screen (Birth, Auxology or Puberty)	√	√
Corrected age curve for premature children (GA <37 weeks) -2 curves are plotted during the child's first two years, one showing the biological age and the other the corrected age	√	√
Zoom chart to page height	√	√
Zoom chart to page width	√	√
Zoom to last view	√	√
Zoom chart with Zoom navigation tool	√	√
Zoom chart with Magnifying glass tool	√	√
Copy chart to clipboard - to paste the chart image in another application such as e.g. Word, PowerPoint etc.	√	√
<b>HELP PAGES</b>		
Help exists in the application covering the following sections:		
Introduction: About the UI, Getting started	√	√
Growth Charts: Growth Charts selection, References	√	√
Patient data: How to add/view	√	√
Visit data: How to add/view Auxology, Puberty, Calculated values	√	√
<b>DATA STORAGE</b>		
Data is stored within, and retrieved from, a database as follows:		
Microsoft SQL Server database - using the customers existing license, no database license provided.	√	
Multi-user capabilities allowing data to be shared among users	√	
Local, proprietary file format for data storage		√

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<b>SECURITY</b>		
User authentication -unique username and password required for login	√	
Automatic log off -after a certain time, default 15 minutes, can be customized	√	
Encrypted data transfer -when loading and saving data to server	√	
Audit Trail -log of all changes of the data entered in the application such as changes done by whom, old value, new value, when and why -can be viewed from the user interface	√	
Activity log -logs all user activity such as log in, unsuccessful attempts to login, viewed patients, added patients, deleted patients and log off	√	
E-signature -the person responsible for entering the data signs it to assure that the information is correct	√	
<b>USER ADMINISTRATION</b>		
Add and delete users -deleted users are not be deleted from the database, but deactivated	√	
Management of user rights -deciding what functionality should be available for a certain each user	√	
Automatic user registration when used with external application -allowing the user to use single-sign on	√	
<b>INSTALLATION / UPGRADES / INTEGRATIONS</b>		
Client installation program	√	√
Automatic upgrades -upgrading to latest version of the application, for new functionality.	√	
Possibility to call the application with certain parameters to allow integration with external applications	√	

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