



Research Calculation Tools (RCT)

Software for study design and growth data analysis.

Growth Analyser Research Calculation Tools (RCT) is software designed for pediatric researchers and offers (statistical) tools and calculator for study design and growth data analysis.

Growth Analyser RCT provides tools such as sample-size calculator and measurement reliability analysis that are helpful when designing a study or assessing a study's reliability. Calculators such as a standard deviation score calculator, growth velocity calculator, growth prediction calculators, and a general-purpose calculator are provided from a spreadsheet-like growth data analysis tool that is compatible with SPSS, MS Excel, and CSV database files.

To allow for growth analysis of data of patients with different backgrounds and/or diagnoses, Growth Analyser EPRS comes with a large database of more than 300 growth references for geographic regions and/or ethnicities, as well as for diagnoses.

Main features

Study Design Aids

Sample-size calculation and measurement reliability tools that help with study design and reliability assessment.

Data Analysis Tool

Spreadsheet-like tool that provides age, BSA, BMI, growth velocities, and standard deviation score calculators.

Database Files

Open and work on database files in SPSS (*.sav), Microsoft Excel, or CSV format.

Selecting and Grouping Data

Select cases and/or split database files in separate groups for analysis.

Tailored Data Analysis

Tailored growth data analysis through the availability of 300+ growth references for geographic regions, ethnicities, and diagnoses.

Growth Prediction Tools

Bayley-Pinneau, constitutionally tall stature, and Tanner-Whitehouse (TW2) adult height, and prediction of growth response to growth hormone treatment.

Version	Release Date
4.2.3	January 17, 2023
Requirements	
Microsoft Windows 10, 11	
Microsoft Server 2012, 2012 R2, 2016, 2019	
macOS 10.14 (x64) or higher	

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Analyse



Visualize



Predict

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Features	VE Viewer Edition	ERPS Electronic Patient Record System	RCT Research Calculation Tool	JR Junior
Type	integrated	standalone	standalone	standalone
Data				
Record or spreadsheet based	health record	health record	spreadsheet	personal record
Data entry or interoperability	data obtained from 3rd party record	manual entry	manual entry	manual
Data persistence		database	manual save	database
Import		✓ <i>Growth Analyser 3.5 *.gap</i>	✓	✓
Export	✓ <i>Microsoft Excel</i>	✓ <i>Microsoft Excel</i>	✓ <i>SPSS, Microsoft Excel, CSV or text file</i>	✓
Print	✓	✓	✓	✓
Grouping			✓	
Selection			✓	
Calculations				
Age	✓	✓	✓	✓
BMI	✓	✓	✓	✓
BSA	✓	✓	✓	
Growth velocities	✓	✓	✓	
Standard deviation scores	✓	✓	✓	
Percentiles	✓	✓		
Gestation-adjusted age	✓	✓	✓ <i>general purpose calculator</i>	
Corrected parental height	✓	✓		
Sample size			✓	
Measurement reliability			✓	
Predictions				
Target height, range and channel	✓	✓		✓
Growth response to GH treatment	✓		✓ <i>IGHD only</i>	
Bayley-Pinneau adult height	✓	✓	✓	
Constitutionally tall stature adult height			✓	
Tanner-Whitehouse (TW2) adult height			✓	
Growth Charts				
Responsive (non-fixed aspect ratio)	✓	✓	✓	✓
Postnatal references	✓ <i>geographic regions / ethnicities / diagnoses</i>	✓ <i>geographic regions / ethnicities / diagnoses</i>	✓ <i>geographic regions / ethnicities / diagnoses</i>	✓ <i>geographic regions</i>
Prenatal references	✓		✓	✓
Reference comparison	✓	✓		
Normal range	✓	✓	✓	
Standard deviation scores	✓	✓		✓
Percentiles	✓	✓		
Gestation-adjusted age	✓	✓		
Bone age	✓	✓		
Target height, range and channel	✓	✓		
Tanner stages	✓	✓		
Medication use	✓	✓		
Response to GH treatment	✓			
Customize axes, labels and title	✓	✓	✓ <i>Microsoft Excel</i>	
Zoom in, out and to selection	✓	✓	✓	✓
Print	✓	✓	✓	✓
Export	✓	✓	✓	✓
Multiple data sources, e.g. patients			✓	