

□ PC PAL – Software applications for medical institutions

Available for EMR integration



GrowthXP

World's leading growth chart software



PedigreeXP

Genetic family tree drawing tool



Patient Registries

Rare disease follow up



Make the best use of growth data

Smooth and efficient data entry with enhanced functionality

- Complete auxological data
- Assessment of pubertal development
- Gestational age correction
- Bone age and predicted adult height
- SDS and percentiles are immediately calculated for each entered value
- Instant feedback charts are available to visualize each entered measurement
- Measurements of Metric or U.S. units can be converted automatically

Interactive growth charts supporting user preferences

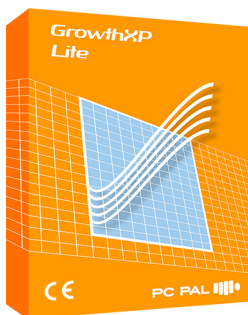
- Advanced zoom features
- Export or save chart as PDF
- Show bone age, parental heights, target height to estimate predicted adult height
- Show corrected age curve for premature infants
- Switch reference type between Percentiles and Z-Scores
- Show or hide standard population curves on a syndrome specific chart
- Plot measurements linked together with lines or as discrete dots
- Plot different lines between two values measured 1 year apart
- Make chart anonymous or hide patient data

Download a free trial at
GrowthXP.com

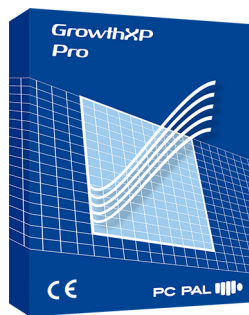
Order GrowthXP Lite at
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For multiple users or
EMR integration,
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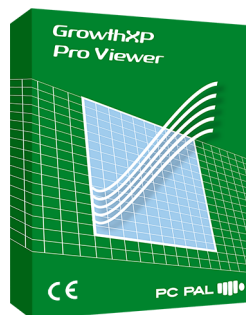
Four solutions to provide high quality electronic growth charts



Single user



Multiple users



EMR integration

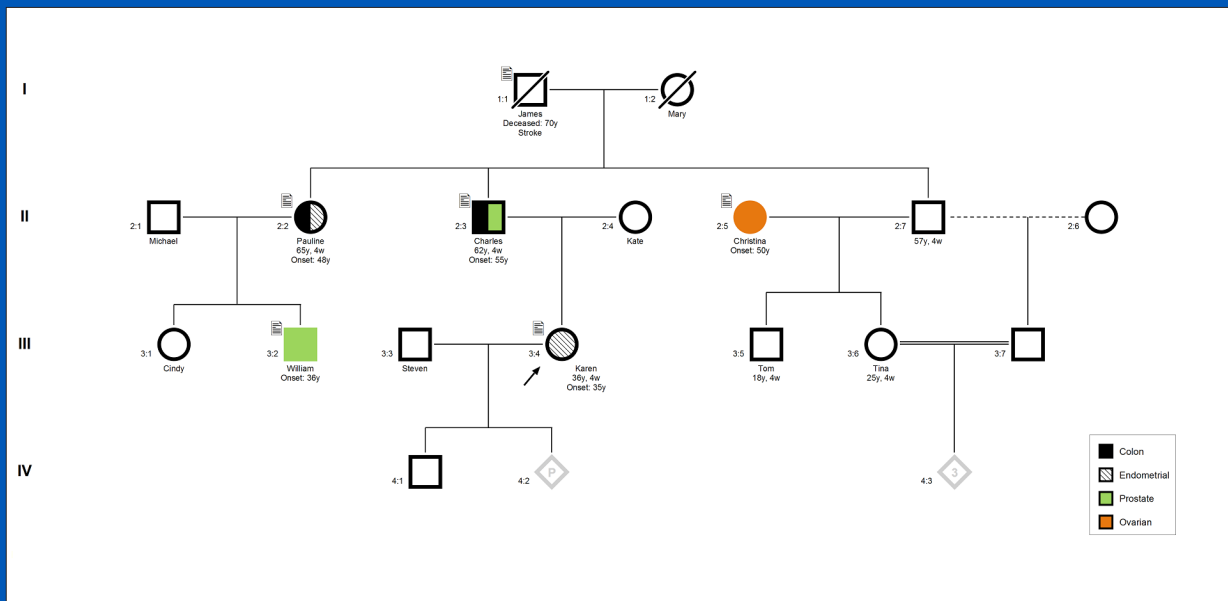


Growth chart component is an advanced growth chart tool which can be integrated seamlessly in other vendors' EMR systems

EMR integration

Quick, easy, intuitive

Your assistant to record family history



Create and manage computerized pedigrees with ease

Quick start a three-generation pedigree in seconds

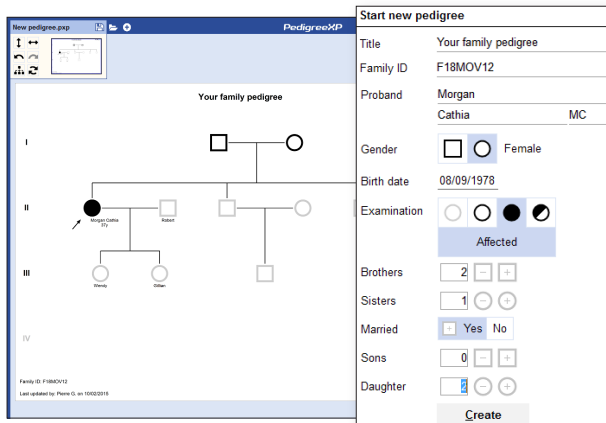
Denote different diseases with customized shades or colors

Symbols conform to Pedigree Standardization Work Group recommendations

Identify potential familial risks thanks to visualization of transmission pattern

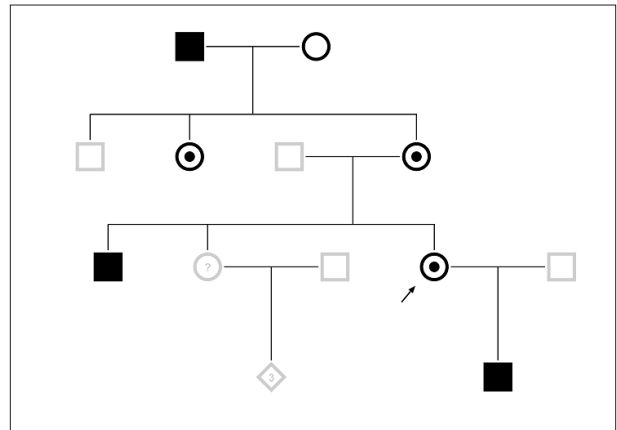
PedigreeXP Features

Responds to the evolving needs of genetics professionals



- Add family members instantaneously
- Auto-arrange pedigrees at every update
- Move or delete several individuals at the same time
- Register age at onset, age at death, cause of death
- Illustrate multiple marriages and consanguinity
- Differentiate monozygotic and dizygotic twins/multiples
- Represent a number of children or siblings in one symbol
- Customize colors or shadings to indicate multiple diseases

- Automatic detection of carrier females of X-link condition
- Calculate coefficient of consanguinity
- Automatic conversion between date and age
- Save pedigrees as PDF or export as image
- Settings to customize information displayed in pedigrees
- Import and export pedigrees in: PED, GEDCOM, BOADICEA
- Smart print selection: print entire pedigree or a selected branch



Download a free trial at
PedigreeXP.com

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Also available for EMR integration

Patient Registries

Customized solutions for Patient Registries 25 years of experience in registries and rare disorders

The screenshot displays the PC PAL DemoApp 9.4 interface. At the top, it shows the user 'Demo PC PAL' and clinic 'Demo clinic'. The patient information section includes 'Demo 2, Female, 14y 5m', 'Identity Demo 2', 'Date of birth 28/10/2000', and 'Diagnosis Other specified diseases of blood and blood-forming org...'. A sidebar on the left lists various menu items under categories like Patient, Patient Output, Patient history, Examination, Biochemistry & Radiology, and Treatment follow-up. The main area is divided into tabs: Auxology, Blood pressure, Puberty 1, Puberty 2, Other auxology, and Calculated values. The Auxology tab is active, showing a list of measurements with input fields and checkboxes. A growth chart for Height (cm) is displayed on the right, showing a blue line representing the patient's growth over time. Below the chart, a table lists the patient's height and height SDS at different dates.

Date	Height (cm)	Height SDS
28/04/2007	127,0 cm	2,69
28/04/2006	119,0 cm	2,37
28/10/2005	120,0 cm	3,43
28/04/2004	110,0 cm	3,89

Study Forms

Visit date	Form	Status
28/04/2005	Follow-up	
28/10/2004	Baseline	
	Background	
	Diagnoses	
	Registration	

PC PAL's solutions for Patient Registries are successful because they are customized to match the exact needs of both clinics and sponsors, based upon true experience in the field.

Over the last 25 years PC PAL has built two major registry platforms for pediatric and adult endocrinology (growth hormone), managing more than 75 000 patients. In parallel, other successful disease registries

have been deployed (acromegaly, ophthalmics, diabetes). More recently, rare disease registries have been a perfect match, needing multiple medical aspects coverage for complex patient contexts and long term follow up.

Patient Registries

Instant feed back

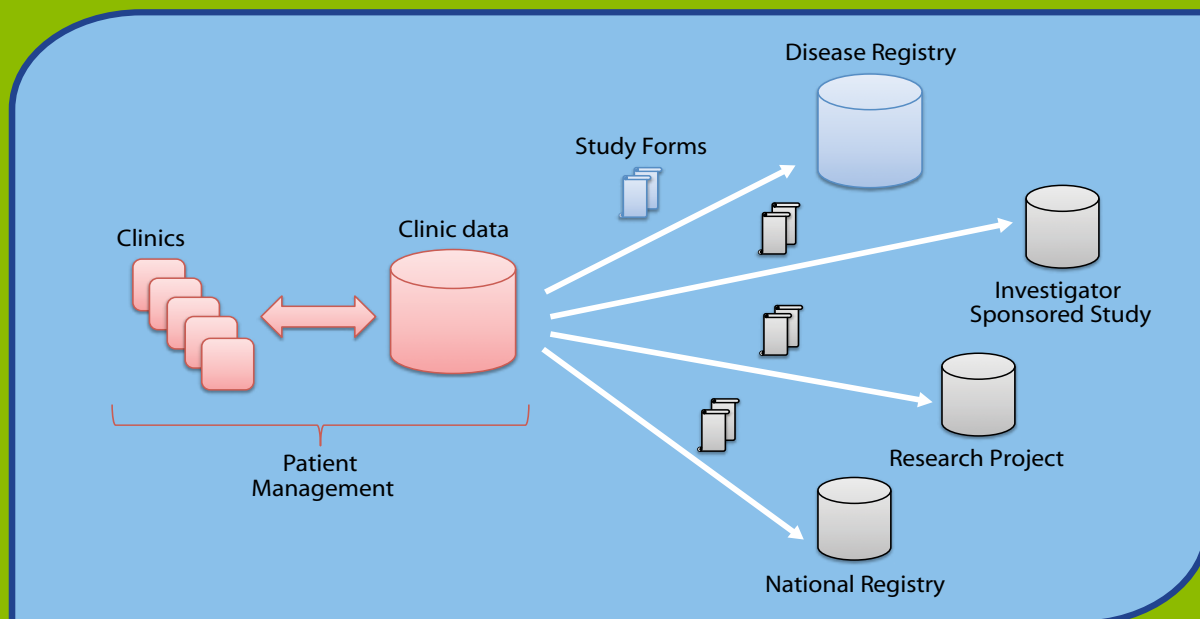
- Numerical variables can have charts associated with them to show their evolution over time.
- Lab data and anthropometric parameters can use multiple units, and when data is presented in charts or tables, the values are automatically converted into a standard unit for each parameter.
- Calculations are executed automatically as soon as a dependent variable is entered or modified.
- Data validations such as range checks, age and gender related or custom built ensure a quality data entry.

Contact us for a quote at sales@pcpal.eu

Multi-study solution

PC PAL's registry platform was created to be the best possible tool for the individual clinics and at the same time to satisfy the needs of the study, or multiple studies, for which it was designed. Data can reside in the clinic database without the intention of study participation, just to make use of the patient

management features within the application. If study participation is decided upon and study forms are created, available data automatically populate the forms. When a form is electronically signed, a copy is physically sent over to the central registry for that study.



PC PAL's registry solutions can be used in a variety of ways and different solutions combined to suit the needs of the customer be it a commercial company, a national association, or hospital/regional/trust wide usage.

GrowthXP

CHU Toulouse, France, contracted with PC PAL for a hospital wide implementation of GrowthXP Pro Viewer to obtain high quality visualization of growth and pubertal development along with all the necessary growth calculations. Integrated into the AGFA Orbis platform, GrowthXP Pro Viewer acts upon data recorded in the electronic medical record and also returns derived parameters back.

PedigreeXP

The department of Genetics at CHU Henri Mondor (AP-HP, Paris region) uses PedigreeXP to create and manage computerized family trees. Quick and intuitive, the software is greatly appreciated for its ease of use and rich functionality. Thanks to valuable advices provided by medical experts, PedigreeXP is continuously adapted to the evolving needs of genetics professionals.

EnovDiab

To assist pediatric clinics with the management and monitoring of diabetic children, PC PAL's platform for patient registries was used to build Enovdiab. In addition to the value for the follow up of the individual patient, data can also be analyzed on a cohort of patients from one clinical center or from a group of clinical centers using the same tool.

How can we assist you?

Our areas of expertise are applications for Patient registries and clinical trials and other applications for the health care sector such as electronic health records (EHR), electronic patient records (EPR), growth charts, laboratory data and pedigrees. We've worked extensively in the areas of pediatric and adult endocrinology, ophthalmology as well as with genetic syndromes and rare disorders.

The secret of PC PAL's systems is that we offer a combination of great visual output together with advanced data validation handling. This has made our applications widely appreciated by both customers and end-users since the early 1990's. Products developed by PC PAL are used in more than 40 countries by many thousands of users.



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