CASMAS®

Nurturing the next generation
Predict height
Assist future development

for Orthodontics & skeletal age Version3.0

Identify children's middle finger bone through
Effectively estimate the future height

Function Manual

This program can directly scan the hand X-ray film, and through the image processing technology.Automatic identification of the middle finger,made epiphyseal plate (bone cartilage), distal section of the phalanx and near the Department of phalanx measurement points to calculate the patient bone age.

* With Winceph connection using this program, you can also have a variety of side view analysis tools such as linear analysis, angle analysis and mode diagram *

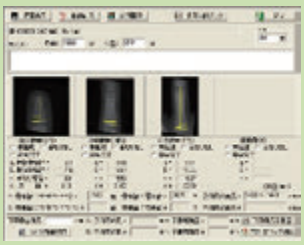
Automatic calculation bone age

Through the scan or directly from the image file input hand bone X-ray film, you can automatically and calculate the bone age


Hand X-ray


Searching middle finger


Searching analysis points


Bone age results

* Depending on the state of the X-ray film, it may not be possible to automatically calculate bone age.

This program requires only one button to calculate the bone age from the scanned X-ray

The correlation coefficient between the bone age calculated by CASMAS and the calculated results of TW2 method is as high as 0.982

Some pediatric clinics have begun to use CASMAS as a replacement for the TW2 method

If the program does not automatically recognize the measurement point, the program also has a support function so that the doctor can set the measurement point position

At the time of adolescence, the difference in the growth rate of different people became increasingly up to the state. Bone age measurement is very important in determining the "start" and "treatment" of dental orthodontic treatment.However, using the TW2 method to calculate bone age takes too long and requires expertise.

And CASMAS only need a simple operation, we can completely solve the problem.

Calculate bone age with middle finger

For X-rays that can not automatically calculate bone age, you can manually specify the middle finger through the search point for bone age calculation.

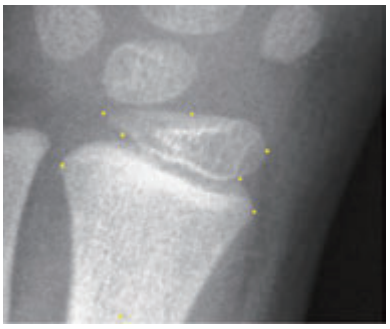
Manually specify middle finger

Middle finger analysis point search chosen screen

Calculate bone age with radius

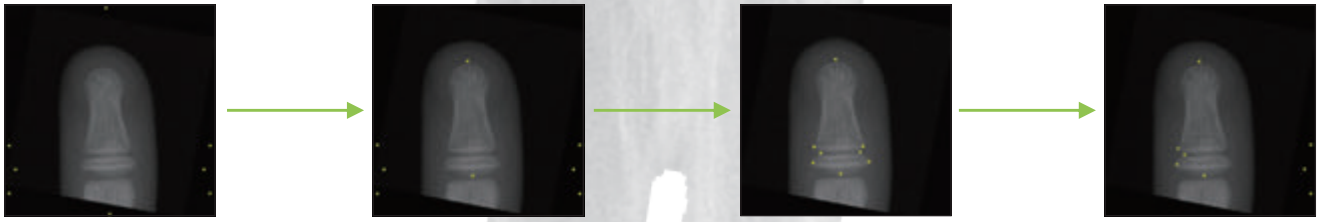
Manually specify the radius and add the radius to the measurement calculation to calculate bone age. In the growth of the completion of the time to calculate the effectiveness of bone age.

Manually specify the radius



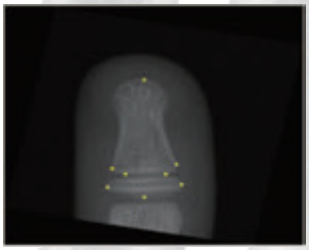
Specify the radius analysis point

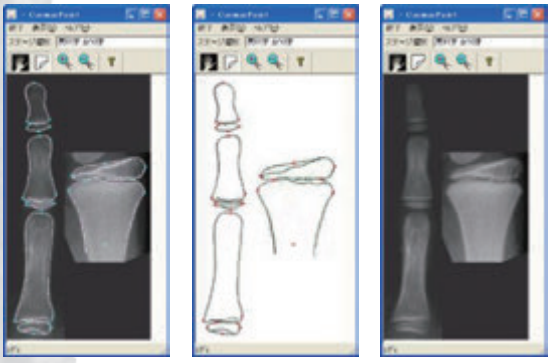
Manually set analysis point



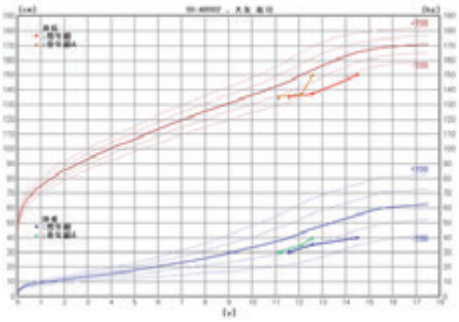
Manually set the analysis point to calculate the bone age, and modify the system automatically select the analysis points.

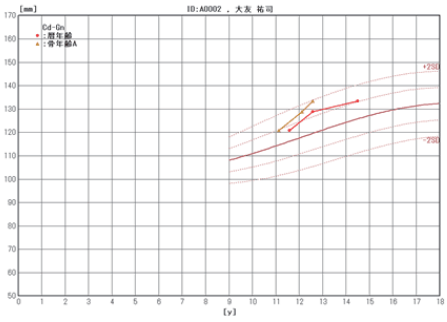
Show age Approximate examples of images and images Copy line graphs and places of placement.

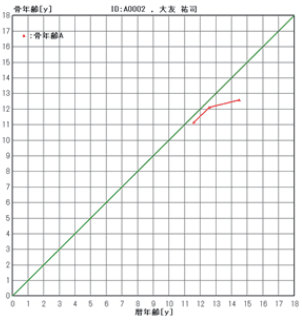




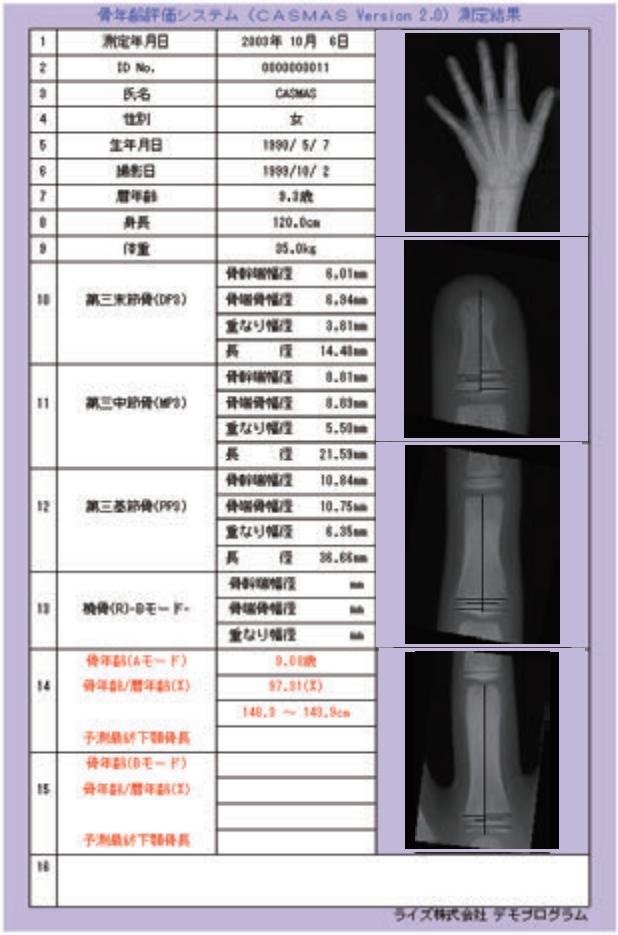
Graphically show the database functionality of the growth process







Print diagnosis and treatment report

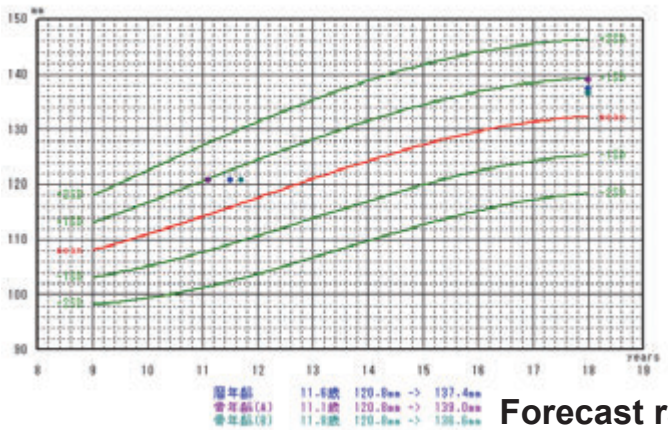


Predict the growth height

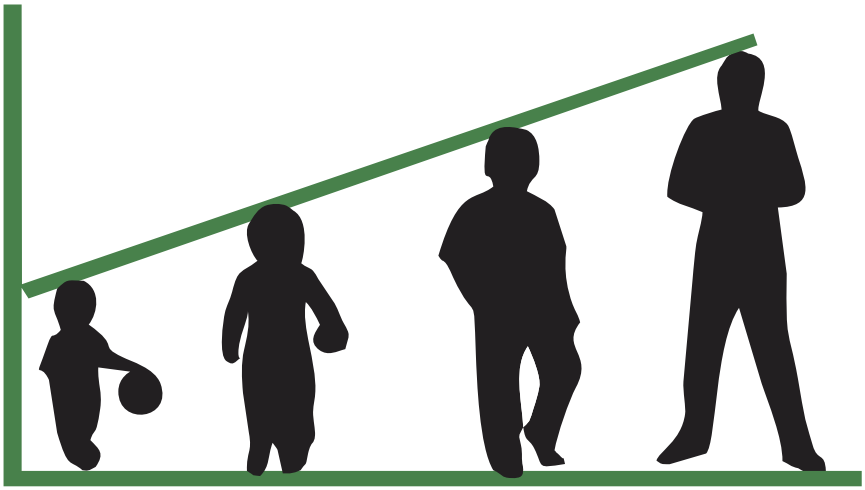
Through the input of the middle finger of the X-ray film. Can be predicted from the current height of the overall height after growth.

- Male age from 9 to 19 years old

- Female age from 8 to 18 years old



Forecast range



Parents can estimate the child's future height and help plan the future of the child

If you have any questions or inquiries about *CASMAS* Welcome to contact us.

Printer

Backup device

PC

TWAIN format scans the image scanner for the pespective document

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