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Combined serum creatinine and cystatin C Quadratic formula for glomerular filtration rate (GFR) estimation in Children

The program is written in Java. Sources and executable jar files are available, free of charge.

About the formula

Taking into consideration the importance of estimating GFR in clinical practice, a new combined serum creatinine and cystatin C Quadratic formula using a gold standard marker for measuring GFR which is Inulin clearance has been developed. This combined Quadratic formula applicable across all GFR values, will allow pediatricians to accurately estimate GFR in children aged between 2 and 18 years.

How to install the program?

Download the formula.zip file from the CHUV web site (http://www.chuv.ch/combinedquadraticformula) into your computer. Unzip the file.
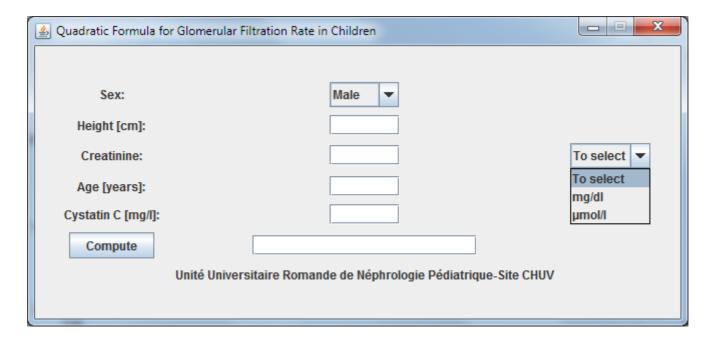
On a Windows PC

Open the formulas' folder and double click on the "formule.cmd" command file. This should run the program.

On an OS X Mac

Open the formula folder and double click on the "formule.jar" file. This should run the program.

Calculate estimated GFR on line:

Enter the following parameters:

Sex: *Male or Female*

Height: *in centimeters*

Creatinine value: *in mg/dl or μmol/l*

Age: *in years*

Cystatin C *: in mg/l*

Click on Compute to get the estimated glomerular filtration rate (eGFR).

- The program is written by M. Petter for the Unité Universitaire Romande de Néphrologie Pédiatrique – Site CHUV

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