

# 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

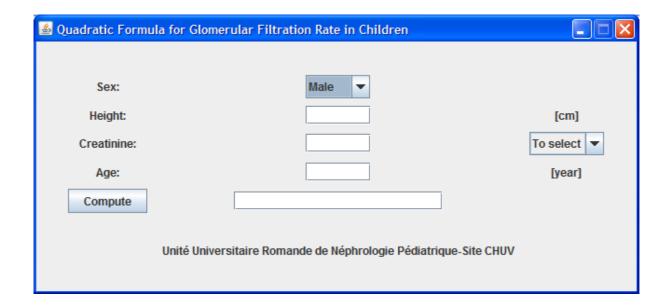
Taking into consideration the importance of estimating GFR in clinical practice, a new quadratic formula using a gold standard marker for measuring GFR which is Inulin clearance has been developed. This quadratic formula will allow pediatricians to estimate GFR in children aged between 2 and 18 years with chronic kidney failure (all stages), with normal renal function, or in children with hyperfiltration.

You may find the program on the CHUV web site at <a href="http://www.chuv.ch/quadraticformula">http://www.chuv.ch/quadraticformula</a>.

## **Prerequisite**

Your computer should have an up-to-date java runtime environment installed. Check this by visiting the following page: <a href="http://java.com/en/download/testjava.jsp">http://java.com/en/download/testjava.jsp</a>.

### 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

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

## Get the source code

Download the dmcp-nephro-formula.zip file from the CHUV web site. Unzip the file to access the source code.

- The program is written by M. Petter for the Unité Universitaire Romande de Néphrologie Pédiatrique Site CHUV
- Contact Person:
  Dr. Chehade Hassib, MD.
  Pediatric Nephrology Unit
  University Hospital of Lausanne
  Email: hassib.chehade@chuv.ch

