

Appendix 1. Equations for calculating renal function

Cockcroft–Gault equation using actual body weight (CG-ABW)

$$\text{Adult males: } \text{CrCl} = \frac{(140 - \text{age [years]}) \times \text{weight (kg)} \times 1.23}{\text{Serum creatinine } (\mu\text{mol/L})}$$

$$\text{Adult females: } \text{CrCl} = \frac{(140 - \text{age [years]}) \times \text{weight (kg)} \times 1.04}{\text{Serum creatinine } (\mu\text{mol/L})}$$

Modified Cockcroft–Gault equation (modified CG)

$$\text{Adult males: } \text{CrCl} = \frac{(140 - \text{age [years]}) \times 90}{\text{SCr } (\mu\text{mol/L})}$$

$$\text{Adult females: } \text{CrCl} = \frac{(140 - \text{age [years]}) \times 90}{\text{SCr } (\mu\text{mol/L})} \times 0.85$$

Appendix 2. Dosing recommendations based on Canadian drug monographs

Apixaban¹⁰

- 5 mg BID *or*
- 2.5 mg BID if TWO or more of the following apply: age \geq 80 years, body weight \leq 60 kg, SCr \geq 133 $\mu\text{mol/L}$
- Not recommended if CrCl $<$ 25 mL/min

Dabigatran⁹

- 150 mg BID *or*
- 110 mg BID if age \geq 80 years; consider this dose if age $>$ 75 years and CrCl 30–49 mL/min
- Not recommended if CrCl $<$ 30 mL/min

Rivaroxaban⁸

- 20 mg once daily if CrCl \geq 50 mL/min *or*
- 15 mg once daily if CrCl 30–49 mL/min
- Not recommended if CrCl $<$ 30 mL/min

Appendix 3. Criteria for comparison of dosing determined by Cockcroft–Gault equation based on actual body weight (CG-ABW) and by modified Cockcroft–Gault (CG) equation

Dosing is appropriate if:

- CG-ABW and modified CG equations resulted in the same dosing recommendation

Dosing is suprathereapeutic if:

- CG-ABW equation resulted in the same dosing recommendation at discharge, but modified CG equation resulted in recommendation for a higher dose at discharge
- CG-ABW equation resulted in recommendation for a lower dose at discharge, but modified CG equation resulted in the same dosing recommendation at discharge
- CG-ABW equation resulted in recommendation against use of direct oral anticoagulant at discharge (based on renal function), but modified CG equation resulted in a recommendation for any dose at discharge

Dosing is subtherapeutic if:

- CG-ABW equation resulted in recommendation for a higher dose at discharge, but modified CG equation resulted in the same dosing recommendation at discharge
- CG-ABW equation resulted in recommendation for same dose at discharge, but modified CG equation resulted in recommendation for lower dose at discharge