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Título	Sensitive LC–MS/MS method for quantification of rivaroxaban in plasma: Application to pharmacokinetic studies
Autores	Alexandre Cavenatti de Oliveira; Marcelo Gomes Davanço; Daniel Rossi de Campos; Pedro Henrique Godoy Sanches; João Pedro Gonçalves Cirino; Patricia de Oliveira Carvalho; Márcia Aparecida Antônio; Edvaldo Capobiango Coelho; Andreia de Melo Porcari
Autor (es) USF	Alexandre Cavenatti de Oliveira; Marcelo Gomes Davanço; Daniel Rossi de Campos; Pedro Henrique Godoy Sanches; João Pedro Gonçalves Cirino; Patricia de Oliveira Carvalho; Márcia Aparecida Antônio; Edvaldo Capobiango Coelho; Andreia de Melo Porcari
Autores Internacionais	
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Resumo	Rivaroxaban is an anticoagulant (orally active direct Xa inhibitor) considered to reduce the risk of stroke and systemic embolism and treat deep vein thrombosis, pulmonary embolism, and other cardiovascular complications. Bioanalytical methods for rivaroxaban quantification in plasma are necessary for application in pharmacokinetic studies, as well as in drug therapeutic monitoring. In this work, we developed and validated a sensitive bioanalytical method using LC–MS/MS for rivaroxaban quantification in human plasma using an one-step liquid–liquid extraction. The linear concentration range was 1–600 ng/mL. The bioanalytical method was also applied to pharmacokinetic studies in healthy volunteers under fasting and fed conditions. The results demonstrated that the method is rapid, sensitive, and adequate for application in pharmacokinetic studies.
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