



Rivaroxaban versus enoxaparin: comparison of outpatient medication adherence in clinical practice

<u>M. Morgado^{1,2}, M. Ribeiro¹, S. Morgado^{1,2}, R. Oliveira^{1,2}, J. Martinez^{1,2}</u>

¹Health Sciences Faculty, University of Beira Interior, Covilhã, Portugal

²Hospital Centre of Cova da Beira, Covilhã, Portugal

OBJECTIVES

RESULTS

Background:

Rivaroxaban (Riv) is a selective, direct Factor Xa inhibitor indicated in the prevention of venous thromboembolism in adult patients undergoing elective hip or knee replacement surgery (HKRS).¹ It was introduced in the pharmacotherapeutic formulary of the Hospital Centre of Cova da Beira (CHCB) on February/2011. It is administered orally, which is a potential advantage in terms of compliance when compared to enoxaparin (Eno).

Purpose:

The aim of this study was to compare adherence to Eno versus Riv in adult patients undergoing elective HKRS. The occurrence of adverse drug reactions (ADRs) was also compared in both groups.

The study included a total of 60 patients, who underwent elective knee (29 patients) or hip (31 patients) surgery; 41 patients were subjected to therapy with Eno (17 knee + 24 hip) and 19 with Riv (12 knee + 7 hip). In all, 91.7% patients were considered adherent to medication, but it was not observed a significant difference (P=1) between patients anticoagulated with Eno (92.7% adherent) or Riv (89.5% adherent). Similarly, there was no significant difference (P=0.35) in medication adherence between patients undergoing knee or hip surgery. However, there was a significantly higher occurrence of ADRs (P=0.001) in patients treated with Eno (39.0%; hematoma in the site of injection) when compared to patients treated with Riv (there was no ADRs attributable to this drug).

METHODS

DISCUSSION / CONCLUSIONS

Cross-sectional study of outpatient compliance to Eno or Riv, in patients undergoing HKRS in CHCB, from February/2011 to April/2012. The evaluation of medication adherence was carried out using a validated questionnaire and the occurrence of ADRs was evaluated in a structured interview.

Tabela 1 – Rate of adherence to anticoagulants

Anticoagulant therapy	Number of patients included in the study	Rate of adherence
Eno	41	92,7%
Riv	19	89,5%

Although it was not observed a significant difference in adherence to subcutaneous Eno vs oral Riv, which may be potentially attributed to the short-term anticoagulation therapy (2 to 5 weeks), the occurrence of ADRs was significantly lower in patients treated with the oral anticoagulant. This difference in drug-related adverse events differs from other studies that detected similar adverseevent profiles.² From a methodological point of view, this is a small cross-sectional study and our results must be considered exploratory in nature.

BIBLIOGRAPHY

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Conflicts of Interest: nothing to disclose.



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