Assessment of blood pressure control and antihypertensive medication adherence in a Portuguese hypertensive population

M. Morgado¹, J. Silva², A. Almeida².
¹Hospital Centre of Cova da Beira, Pharmaceutical Services, Covilhã, Portugal.
²University of Beira Interior, Health Sciences Faculty, Covilhã, Portugal.

Background: Hypertension is one of the major causes of worldwide morbidity and mortality. Despite the wide variety and availability of powerful antihypertensive agents, less than a third of the adult hypertensive patients have their blood pressure (BP) controlled. Nonadherence to medication is one of the major causes of treatment failure.

Purpose: To evaluate BP control and antihypertensive medication adherence in a Portuguese hypertensive population.

Materials and Methods: A cross-sectional observational study was conducted in adult (aged 18 or over) hypertensive patients attending, for at least 6 months, the hypertension/dyslipidemia clinic at the university teaching hospital of Cova da Beira Hospital Centre, Covilhã, Portugal, from March to August 2012. Patients were asked to participate in a structured interview which included socio-demographic characteristics, antihypertensive medication adherence and target BP values. Medication adherence was measured using a validated five-item adherence scale,¹ derived from the four-item scale developed by Morisky et al.² Detailed clinical information was obtained from medical records.

Results: A total of 94 patients met the inclusion criteria and completed the structured interview. Of these, 47% had their BP controlled according to the European Society of Hypertension. Antihypertensive medication adherence was 40%. Patients with controlled BP had a significant higher rate of medication adherence than patients with uncontrolled BP (52% vs 30%, P=0.028). Likewise, it was observed that patients with controlled BP were significantly more aware of their target BP figures (75% vs 46%, P=0.034).

<table>
<thead>
<tr>
<th></th>
<th>Controlled BP (n=44)</th>
<th>Uncontrolled BP (n=50)</th>
<th>P value</th>
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<tbody>
<tr>
<td>Rate of medication adherence (%)</td>
<td>52</td>
<td>30</td>
<td>0.028</td>
</tr>
<tr>
<td>Target BP awareness (%)</td>
<td>75</td>
<td>46</td>
<td>0.034</td>
</tr>
</tbody>
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Tabela 1 – Medication adherence and knowledge of target BP values.

Conclusions: Many hypertensive patients prescribed with antihypertensive therapy fail to achieve BP control in clinical practice. Poor medication adherence and patient knowledge of target BP values should be considered as possible underlying causes of inadequately controlled BP and must be addressed in any intervention aimed to improve BP control.

References

Conflicts of Interest: Nothing to disclose.