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Abstract

A rapid, sensitive and without extraction spectrophotometric method for determination of clonazepam (CLO) in pure and pharmaceutical dosage forms has been described. The proposed method was simply depended on charge transfer reaction between reduced CLO (π-donor) and metal (N-methyl-p- amino phenol sulfate) as a chromogenic reagent (π- acceptor). The reduced drug, with zinc and concentrated hydrochloric acid, produced a purple colored soluble charge-transfer complex with metal in the presence of sodium metaperiodate in neutral medium, which has been measured at λmax 532 nm. All the variables which affected the developed and the stability of the colored product such as concentration of reagent and oxidant, temperature and time of reaction were investigated and optimized. The linearity of the method was observed within a concentration range 5-40 μg ml⁻¹ CLO and with a correlation coefficient not less than 0.99, while the molar absorptivity and sandell sensitivity were 3.473×10³ L.mole⁻¹.cm⁻¹ and 0.0909 μg cm⁻² respectively. The present work includes also the usage of the Benesi–Hildebrand equation for the evaluation of the association constant and molar absorptivity of the colored complex. Finally the proposed method was successfully applied for the determination of CLO in tablets.
Introduction
The most commonly used techniques for investigating the relationship between two quantitative variables are correlation and linear regression. Correlation quantifies the strength of the linear relationship between a pair of variables, whereas regression expresses the relationship in the form of an equation. For example, in patients attending an accident and emergency unit (A&E), we could use correlation and regression to determine whether there is a relationship between age and urea level, and whether the level of urea can be predicted for a given age.

Scatter diagram
When investigating a relationship between two variables, the first step is to show the data values graphically on a scatter diagram. Consider the data given in Table 1.

Table 1
Age and \( \ln \) urea for 20 patients attending an accident and emergency unit

<table>
<thead>
<tr>
<th>Subject</th>
<th>Age (years)</th>
<th>( \ln ) urea</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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