Analysis of the use a combination of metformin and glibenclamide drugs with blood glucose levels at diabetes mellitus patients

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INTRODUCTION

Diabetes mellitus: chronic disease
Pancreas didn’t produced enough insulin
Indonesia was ranks sixth in number largest diabetics in the world after China, India, United States, Brazil and Mexico
The combination of Metformin and Glibenclamide is a hypoglycemic drug oral (OHO) which is formulated for people with type 2 diabetes

THE PURPOSED

• to determine changes at blood glucose levels of diabetes mellitus patients on administration of a combination of metformin and glibenclamide drugs.

MATERIALS & METHODS

• This study was approved by the Health Research Ethics Committee of STIKES dr Soebandi
• Period Research: Maret-Mei 2020
• Place of Research: Kebondalem Bangorejo Heath Center (East Java-Indonesia)
• Design: comparatively paired sample analytical research, with the design cohort retrospective
• Instrument: a patient’s medical record.
• Samples were calculated using the total sampling technique during the research period.
• Analysed: SPSS version 18 and analyzed use Wilcoxon test.

RESULTS

Demographic data (gender): From 143 samples, a number of 91 samples (63.64%) is higher than men.

In terms of age, the highest number was dominated by the age range of 48-58 years, namely 87 (60.84%)

Wilcoxon test showed that there was a decrease in the patient’s blood glucose

CONCLUSION

• A combination of metformin and glibenclamide drugs provided changes in blood glucose levels decrease in diabetes mellitus patients, so it can be used as an antihyperglycemic recommendation according to the classification of patients in research.

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REFERENCES


<table>
<thead>
<tr>
<th>Wilcoxon Test</th>
<th>Before and After used of combination metformin &amp; glibenclamide</th>
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<tbody>
<tr>
<td>Z</td>
<td>-1,899</td>
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<tr>
<td>Asymp. Sig</td>
<td>0,000</td>
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