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Comparison of Mean Tears Examination Results of Schirmer Test I Using Whatman Paper No. 91 and No. 41 in Normal People

Abstract

Purpose: To prove that there was no difference between Whatman paper No. 91 with Whatman paper No. 41 in the Schirmer test I. Methods: A cross sectional study was done in men and women labors, with the following criteria: more than 30 years old, had normal segment anterior and normal result for the Schirmer test I. Labors who seek overseas jobs usually have to pass general check up examination including their eyes health. This study compared the use of Whatman paper No. 91 and Whatman paper No. 41 using the Schirmer test I and determined the wet of each paper of each eye at the same time. The result of Schirmer test was noted and the data was analyzed using Kolmogorov-Smirnov Goodness of Fit Test. The paired T-test was applied to compare the normal distribution of Whatman paper No. 91 and No. 41. Provided that the data had normal distribution, the comparison of both Whatman paper No. 41 and No. 91 was analyzed using paired T-test. Result: The Kolmogorov-Smirnov Goodness and Fit Test showed that the data had normal distribution. Paired T-test was used to compare the result of Schirmer test I using paper Whatman No. 91 and No. 41 resulted in p = 0.768 (p > 0.05). The power analysis showed value of 78% in which it approaches 80%. This means that there was no difference of Schirmer test I using Whatman paper No. 91 and Whatman paper No. 41. Conclusion: Schirmer Test I using Whatman paper No. 91 and 41 revealed no significant different between those papers.

Keyword : mean, tears, examination, Schirmer, test, Whatman, paper, no., 91, Whatman, paper, no.,

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