

## ***Interactive comment on “Surface Water Purification using cellulose Paper Impregnated with Silver Nanoparticles” by Shahad A. Raheem and Alaa H. Alfatlawi***

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thank you for these notes. Introduction 1)What made you choose cellulose paper? done, Page 2 Line 46 to 50. Introduction 2) Objective of the research is lacking done, Page 2, Line 51 to 54. Introduction 3) The novelty of the paper should be explained and added. done, Page 2, line 54. Some new types of bacteria Materials and methods 1) Why was this water chosen as a model water? done, Page 2, Line 58 to 59. Materials and methods 2) How were the bacteriological analysis done? mentioned, Page 4, Line 88 to 96. Materials and methods 2) How were the colonies counted? done, Page 4, Line 96 to 97. Materials and methods 3) origin of the cellulose paper should be

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stated. done, Page 5, line 64. Materials and methods 4)why were ratios 2:1 and 10:1 chosen? done, Page 4, lines 66 and 67. Materials and methods 5)Figure 1 – should be repeated with different background/ preferably white background. These papers were taken during the study and there is no possibility of repeating them. Results 1)Reference on turbidity removal with only cellulose paper should be measured It's measured with only cellulose paper already. Results 2)Minimum Inhibitory concentration should be mentioned and defined done, Page 8, lines 137 and 138. Results 3) It is difficult to make very clear conclusions if Figures 3 and 4 are compared. This concern the silver content concentration, we can conclude the 100% inactivation can be reached with less silver content in 10:1 ratio. Conclusion 1) “AgNPs papers can be used a good point of use filters” – This is strong conclusion since it was not compared to other technologies. This conclusion was not mentioned as a comparison with other technologies it was based on the results abstained from this study. Abbreviations are not correct and should be corrected. done References Suggestion is to use recent references. These are the most recent references concerning this study

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