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## TITLE: Study of the Kilishi's storage box

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### ABSTRACT

The stability of a food product after drying depends on its packaging or storage environment. In Niger, many Kilishi sellers, mainly in the city of Niamey, use a glass box for the storage of the product intended for sale. This method was initiated in 2005 by the government of the 5th Republic during the Francophonie games. The objective of this initiative was not only to banish the practice of exposing to the open air the product wrapped in sheets of paper or sometimes even without any protection against infestation, but also to make the product more attractive to the customer. It should be noted, however, that this new method has not been the subject of a prior study of physicochemical and microbiological phenomena that occur during the process of storage of the product. The purpose of our study is to understand and evaluate the impact of the box on certain physicochemical and microbiological properties of Kilishi. To this end, we have designed and studied on the one hand, the storage box of Kilishi and on the other hand the conservation of the product for one month. A numerical model was developed to predict the heat and mass exchange phenomena that occur during the process. The analysis of the experimental results of this study illustrates a cycle of the variations of the temperature and the relative humidity of the ambient air inside the box. This variation had an impact on the physico-chemical and microbiological properties namely mass, moisture content, yeast and mold of Kilishi during the storage period.

### BIOGRAPHY

Aboubacar CHAIBOU AOUTA is a PhD student at the University of Abdou Moumouni of Niamey NIGER. He works in the field of engineering sciences and in the specialty of process engineering. His recent work deals with the issue of solar dryers, drying of kilishi meat slices and conservation of kilishi in a storage environment.

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