

THE IMAGES OF THE SELECTED FRUIT OBTAINED – USABILITY OF MRI

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Purpose:

The aim of the study was to present the possibilities of fruit imaging in the MRI technique.

Material and method:

MRI were performed in 8 fruits (pineapple (*Ananas comosus*), banana (*Musa paradisiaca*), pomegranate (*Punica granatum*), pear (*Pyrus communis*), apple (*Malus domestica*), kiwi (*Aktinidia deliciosa*), melon (*Cucumis Melo*), orange (*Citrus aurantium*)), using 1,5 T Signa Exite (GEMS) unit, head coil. T2- weighted images were performed (TR 3000ms, TE 52 - 56 ms).

Result:

3D models of fruit from 2D MRI picture were evaluated. We performed segmentation, reconstruction, visualization and interactive cuts on several data sets of fruits.

Conclusion:

We obtained clear, high-quality MRI images of some selected fruits. They can be used as the baseline images in the analysis of pathological lesions of a fruit.