**Evaluation of $^{14}$C-Urea Breath Test ($^{14}$C-UBT) using $^{14}$C-Urea capsules produced by BRIT and a modified technique for trapping the exhaled breath**

Board of Radio Isotopes, Department of Atomic Energy, India has standardized $^{14}$C Urea Breath Test (UBT) for diagnosis of H.Pylori using indigenously developed $^{14}$C-Urea Capsule.

**Triathler Multi Label Tester** from Hidex Oy Finland supplied by Noki Technologies Private Limited is used for detection of $^{14}$C in breath collected from patients. The clinical trial of the BRIT $^{14}$C-Urea capsule in combination with Hidex Triathler Multi Label Tester was carried out and it was found to be satisfactory correlated with clinical finding.

The BRIT $^{14}$C-Urea capsule and associated diagnostic procedure is compatible with the Hidex Triathler Multi Label Analyzer detection system.

Currently the BRIT $^{14}$C Capsule along Hidex Triathler Multinuclide Analyzer is used as a sensitive diagnostic modality for H.Pylori in BARC hospital and Radiation Medicine Centre, Mumbai. The H. pylori patient diagnostic study carried in Radiation Medicine Centre using the BRIT $^{14}$C Urea Capsule and $^{14}$C detection system detection system, Hidex Triathler Multinuclide Analyzer gave Sensitivity and specificity of 70% & 100% respectively (1).

**Reference**


Evaluation of $^{14}$C-Urea Breath Test ($^{14}$C-UBT) using $^{14}$C-Urea capsules produced by BRIT and a modified technique for trapping the exhaled breath. (Abstract) IJNM 2009;24; 102-103.