ONLINE ANALYTICAL TOOL FOR ACADEMIC PATIENT DATA ON VOICE

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Introduction: Database operations, statistical and analytical tools have always been very important for academic study. Scholars and investigators in ENT field are facing with two challenges during their research: 1) Software tool (that is not part of the clinical management system) for gathering data specifically designed for the structure of ENT field; 2) Picking up suitable rows of data with low-colorations of fields in order to do implement some statistical methods/tools in the statistical software such as R, SAS, SPSS and etc.

The investigations and the interviewees have created a need for a program to be processed with this goal in voice clinics.

The main goal of our study is to create online analytical tool for academic patient data on voice, where 3-in-1 paradigm is implemented for the ENT scholars in order to entering data of their patient in structured way, to do enormous filtering upon, and to choose/type statistical tools for the pre-defined columns without living the platform.

Methods: On February 2014 by the Science Development Foundation under the President of the Republic of Azerbaijan was financed and established voice laboratory on
the department of ENT of ASATID. The laboratory is equipped with Endovideostroboscope Voice Analysis System (Xion Medical Products, GmbH). 1035 patient with voice disorders were examined during the 2014 - 2016 years. The software design and structure were prepared upon these data.

**Results:** We are making scientific investigation on prevalence of voice disorders. So we need online storage and monitoring of results that obtained in the laboratory and also statistical analyzing. And we felt the need to establish a new program. Finally, with software developers we have created the APD-Voice that completely meets the needs mentioned above.

**Conclusions:** With the APD-Voice, creation of patient database and statistical analyzes of academic studies have been conducted effectively.