

**National Institute of Tuberculosis, Pulmonary Diseases
and Thoracic Surgery Vyšné Hágy
059 84 Vyšné Hágy**

Ministry of Health of SR
Division of finance
Limbová 2
837 52 BRATISLAVA

Your reference

Our reference

Attended by

Vyšné Hágy on 05/12/2008

Request for the purchase of a computer analyzer from the capital outlay of the State Budget

On the basis of repeated offers of the company Endotron Košice for a new diagnostic medical device **ENDOTRON Acid-base computer IMS/2** – PC analyzer of the acidobasic balance of the internal environment of patients we are applying to you for the purchase of the above-mentioned device from the capital outlay of the State Budget.

ENDOTRON Acid-base computer IMS/2 – a computer analyzer of acidobasic balance represents a new generation of devices of transcutaneous cybernetic type which are based on the mathematical models of cybernetics of the internal environment of patients. The device is of a modular character and contains **TINY TCM/4** with a calibration unit, a transcutaneous combined electrode for taking the partial pressure of pO_2+pCO_2 , and the analytical **IMS/2** module, a **computer and a printer**.

The basic function of IMS/2 device is to take the **partial pressure of pO_2+pCO_2** from the surface of a patient's skin and to analyze the measured values by the analytical module. This enables to analyze the state of acidobasic and ionic balance of a patient in a "**bloodless**" manner, i.e. the **parameters: ph , HbO_2 , pO_2 , pCO_2 , standard HCO_3 , current HCO_3 , total CO_2 , the bases excess, the state of ionic balance and the feedback coupling, namely: Mg^{++} , Ca^{++} , chlorides, potassium, sodium, and also urea, osmolality and the level of glucose of patient's suffering from diabetes** without sampling the patient's blood and with the possibility of continuous analyzing.

The usage of the IMS/2 device is possible at a patient's bed or in a doctor's consulting room, as well as when the testing of top sportsman, pilots on simulators is needed. The device provides the fast and continuous monitoring of the internal environment parameters with immediate results. The measurement is carried out by connecting a patient to the device and the resulting parameters are displayed on a computer monitor and subsequently they can be printed by a connected printer. The measurement is continual and the results are preliminarily saved so that they can be displayed and printed by return. Moreover, in addition to a single examination of a patient, e.g. in a doctor's consulting room, the device allows to monitor a patient in the course of surgery or after the operation which means that a

physician, surgeon or other specialist can be continuously informed of a patient's condition. This is not possible when the standard methods are used.

The National Institute of Tuberculosis, Pulmonary Diseases and Thoracic Surgery in Vyšné Hágy accepts the role of a dominant supplier in the field of pneumology and phthiology with the sphere of activity within the Slovak Republic. Nowadays we are witnessing the considerable increase in the number of patients who are hospitalized because of their serious health state.

The mentioned device will serve as a useful appliance for the needs of the Ward of Anesthesiology and Intensive Medicine, the Intensive Care Unit in the course of 24 hours, particularly during night services if there are more patients who are connected to ventilation.

We would like to ask you for buying this device from the capital outlay of the State Budget if the volume of capital outlay makes it possible.

We highly appreciate your understanding and granting our request.

Yours Sincerely

Ing. Jozef Poráč, MPH
Director

signed

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Ministry of Health of SR
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Request for the purchase of a computer analyzer from the capital outlay of the State Budget

On the basis of the offer of the company Endotron Košice for a new diagnostic medical device, ENDOTRON Acid-base computer IMS/2-PC, analyzer of acidobasic balance of the internal environment of patients, we appeal to you for the purchase of the mentioned device from the capital outlay of the State Budget.

The usage of the IMS/2 device is convenient for our patients due to the fast and continuous monitoring of the internal environment parameters with immediate results. The measurement is carried out by connecting a patient to the device and the resulting parameters are displayed on a computer monitor and subsequently they can be printed by a connected printer. The measurement is continual and the results are preliminarily saved so that they can be displayed and printed by return. Moreover, in addition to a single examination of a patient, e.g. in a doctor's consulting room, patients can be monitored during their stay in our Medical Institution Diamant. This is not possible when the standard methods are used.

The mentioned device will serve as a useful appliance for the needs of the Medical Institution Diamant and for the objective assessment of the therapy results.

We would like to ask you for buying this device from the capital outlay of the State Budget if the volume of capital outlay makes it possible.

I highly appreciate your understanding and granting our request.

In Dudince, 7/6/2008

Ing. Milan Kamenský, CSc. MPH
Director