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Surveys

Mathematical modelling

Experimentals

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The program allows to register and process questionnaire findings of each child and produces a conclusion about possible development and form of postvaccination complications and the need for his immunization. Depending on the child's life history and his initial health state it is possible to carry out administration and automatic registration of the findings of laboratory examinations of the immune state with a subsequent determination of an optimal schema of immunization. In case of any counter indications for vaccinations the most admissible variant of rehabilitative measures providing a possibility to carry out an individual scheme of the child's vaccination in the future can be proposed. The program allows to develop and print out an individual schedule of immunization with recommendations regarding prevaccination measures.

43 THE USE OF COMPUTER TECHNOLOGIES IN ULTRASONIC AND FUNCTIONAL DIAGNOSTIC DEPARTMENT PRACTICE

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The computer work supplement of the large ultrasonic, endoscopic and functional diagnostic department may be characterized as multi-level, depending on the complexity of the technologies used.

First level programs are planned for the registration of patients and the recording of the results of ultrasonic examination of abdomen, heart, blood vessels, gastroduodenoscopy, colonoscopy, rectoromanoscopy. Such programs enable to file the limited number of patients data such as direction diagnoses, examination record and the result, and to mark the zone of interest as well. This enables to get information quickly about the groups of patients with this or that pathology and then choose and analyze corresponding materials. Relatively simple programs have also been worked out of interpreting of some electrophysiological studies: data calculation of central haemodynamics on the basis of integral rheography results, decoding of Holler monitoring results and of bicycle test.

Data base creation on a certain field of pathology is the second level of computer technology inculcation and ultrasonic examination results of different organs taking the central place. "Pancreas disease diagnostic" data base has been developed. It includes 271 positions. Apart from the detailed characteristics of pancreas pathology ultrasound signs it contains sections on the clinical examination of patients, of computer tomography and of pancreas morphological examination. Special data base analysis programme has been created. It enables to get prompt data about a particular patient, about the frequency of this or that disease signs and to compare them according to different position. Such kind of computer technology enables to use the data obtained promptly both in practical and scientific research work.

44 COMPUTER TECHNOLOGY IN CONTROLLING SAFETY OF DRUG THERAPY

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Increase in information volume about drug side effects require the conduction of concrete analysis with subsequent recommendations, taking into account medical and economical aspects. The worked out system analyses information algorithm about concrete patient with developed side effects and information about drug therapy with subsequent clinico-pharmacological recommendations.

45 THE TOOL SIMULATED COMPLEX FOR STUDY OF MOLECULAR GEARS OF HOMEOSTASIS

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For reception of integrated parameters of homeostasis and their evaluations the expensive technologies of researches are required. The tool complex for decision of this task at minimum possible costs is suggested. In the structure of complex laser correlation spectrometer, software - hardware system of data processing and their visualization are included. Complex provides the opportunity to evaluate the contribution of certain biomolecules in plasma homeostasis with the purpose of revealing of diseases on pre-clinical stages. That it is important in oncology, professional pathology and other spheres of medicine.