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REPORT

on testing of computer-aided diagnostic complex Dynamics-100

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Report on clinical use of computer-aided diagnostic complex Dynamics -100 in emergency cardiology

Examination was carried out among:

Associates persons	- 16
Patients with acute coronary syndrome (unstable Angina, myocardial infarction) persons	- 122
643 tests was held, of which:	
On a single occasion persons	- 66
Twice (in the beginning and in the end of treatment) persons	- 28
Three times and more persons	- 44
Including: control – 30 persons, Stable Angina – 30 persons, Unstable Angina – 37 persons, Myocardial Infarction – 31 persons.	

1. 15 out of 16 associates (almost healthy persons) showed deviations from the norm in respect of indicators of Dynamics-100. All deviations are related to the central nervous function and autonomic nervous function. No deviations were detected on the part of the cardio-vascular system.
2. Assessment of the therapy results in respect of the certain patient is possible, as well as individual selection of drugs upon carrying out pharmacological tests. The most convenient is the indicator of deterioration of the cardio-vascular system, the same as for patients with Acute Coronary Syndrome. Prescribing metabolic drugs affecting energy function (Inosine, Piracetam, ATP), as well as potassium and magnesium preparations without preliminary pharmacological tests allows for this category of patients to improve quickly as subjective state of the patient, so clinical characteristics of the disease.
3. It is interesting that indicators of the harmony of biorhythms on all levels of management indicating availability of high energy resources and optimal energy balance are normal with patients suffering heart rate disorders. Interpretation of these data is ambiguous and requires additional research. Data of the patients with strongly apparent alterations of the cardio-vascular system (rate and conduction disorders, tachycardia of more than 110 beats/min and bradycardia of more than 50 beats/min.) obtained in respect of the system Dynamics-100” do not differ from normal ones.

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...for 24 hours. 83% of complications occurred in hours with low indexes of adaptability. It is interesting that abrupt improvement of indicators, including fractal, occurred immediately before the patient's death. Interpretation of these data is ambiguous and requires additional research. Data of the patients with strongly apparent alterations of the cardio-vascular system (rate and conduction disorders, tachycardia of more than 110 beats/min and bradycardia of more than 50 beats/min., pulmonary edema, cardiogenic shock) obtained in respect of the system Dynamics-100 do not differ from normal ones.

Conclusions:

1. Diagnostic complex Dynamics-100 is highly sensitive for assessment of state of the cardio-vascular and nervous systems of the organism, including during the process of dynamic observation in the current mode in resuscitation conditions.
 2. Safety, noninvasive methods, speed and ease of examination of patients allow performing dynamic observation in any conditions.
 3. Results of the research indicate appropriateness of use of diagnostic complex Dynamics-100 in functional diagnostics, dynamic observation and therapy selection. Moreover, diagnostic complex Dynamics-100 may be used independently, not only as an additional examination method, what gives evident economy effect.
 4. Using diagnostic complex Dynamics-100 is convenient for holding of mass screening examinations, since it allows with high level of confidence to separate healthy contingent from persons needing additional examination.
 5. So, Dynamics-100 allows:
 - 1 to define various health indicators of the patient in the screening mode and detect deviations from the norm against subjective sense of well-being;
 - 2 to perform dynamic observation of the patient's health upon carrying out therapeutic and health improving activities;
 - 3 to formulate medical opinion and give necessary recommendations with respect to the results of the system analysis.
- Dynamics-100 helps the practicing physician of any specialization to control health indicators and prepare their daily forecast, to detect energy resources of an organism and assess effectiveness of the treatment.