

MedicalXpert Pro: RELIABLE MEDICAL INFORMATION



MedicalXpertSystems

MEDICAL XPERT SYSTEMS

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MedicalXpert Pro program is based on Thomas Bayes' theorem often called Bayes' law or Bayes' rule. It shows the relation between two conditional probabilities which are the reverse of each other.

The simplified probabilistic based program says:

"THE MOST COMMON POSSIBLE OPTION IS THE MOST PROBABLE."

MedicalXpert Pro program uses several tools in order to help in the medical diagnosis: The Differential Diagnosis. It provides one of the largest differential diagnosis for the majority of symptoms and analytical tests. It includes the possible symptoms/tests, cytogenetic abnormalities, results of Flow Cytometry, results of cytochemistry, tests of urine, CSF, etc.

MedicalXpert Pro also includes many drugs and their side effects in the differential diagnosis.

MedicalXpert Pro permits to enter from one to infinite symptoms/tests and combines the differential diagnosis of the different symptoms/tests. We may see in this case the differential diagnosis of the symptoms using the condition "and", or the condition "or". e.g.: 1. Fever and high leukocyte count ("and") 2. Fever or high leukocyte count ("or").

MedicalXpert Pro checks the presence of established diagnostic criteria from the entered symptoms.

MedicalXpert Pro gives two types of probability, one taking into account the frequency of the among people and the other the prevalence of the presence of the symptoms/ results of tests in the different possible diseases. This is developed in order to avoid that very rare diseases in MedicalXpert Pro has a module of 'experience' in that we

can enter the results of the tests and disease of all patients who have been diagnosed in our facilities (hospital, surgery (doctor's office), laboratory). In exchange of diseases MedicalXpert Pro will consider patients with one main diagnosis and other accessory diagnosis. The results of the search will show the number of patients in percentage (%) for each of the possible diseases.

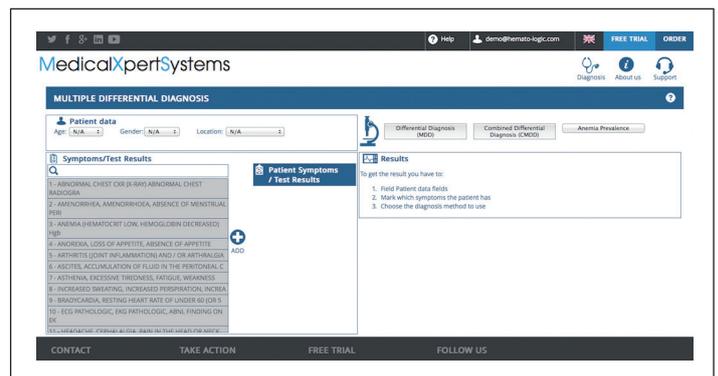


Figure 1: Main screen MedicalXpert Pro

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