

Presentation Abstract Submission

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Research Title	Using artificial intelligence in clinical diagnosis

Abstract:

It is a global problem that has raised alarm in many countries specially developed countries, that 50 – 68 % of lab tests done for patients (as outpatients or inpatients) are unjustified. So many physicians acknowledged that they ordered tests for no medical reason. Such unnecessary testing is contributing to an estimated \$210 billion in additional health care costs in USA only. The top reasons the doctors ordered these tests were fear of missing something that would help them diagnose their patients, and protection against malpractice. In large medical centers and big hospitals, doctors (specially juniors) are under enormous pressure to accommodate as many patients as they could, and that would made them to skip many examining steps of the patient and brief up the patient's story of his illness whether intentionally or not on purpose and then trying to compensate that deficiency by requesting as many as possible of the laboratory tests and radiology studies to cover the scope of many diseases that may or even may not be the cause of this health problem. *Use of artificial intelligence (application) helps to encourage doctors to work more efficiently. By having a clear purpose when selecting the right test, in the right circumstances; clinicians can improve patient outcomes while making the best use of tests. With the use of that application, we can consider it as an invisible intelligent robot assisting the physician step by step in collaborating the data from the patient (relevant symptoms to the patient's complaint) and guiding him to apply the right physical examination (signs that may add more data to the differential diagnosis of this complaint) in an organized scientific pattern, then the application helps the doctor to reach a provisional diagnosis in a quick, and accurate manner. Accordingly, the application shall choose and tell only the right lab tests and exact imaging studies, thus saves that huge waste in resources. -All information on the "app" recorded about the patient and can serve as " DATA BASE", that would be a good reference to health authorities to supervise the quality of service offered to the patient, and also used as an " AUDITING TOOL" from the paying sponsors.