

Research

"Assessing the performance of software implementation computer detection in the sorting of X-ray images of chest organs in the program of screening for tuberculosis in Ukraine " (CAD)

Questionnaire for regional level TB treatment facilities

The state institution "Public Health Center of the Ministry of Health of Ukraine" (hereinafter referred to as the Center) respects you and informs you of the following.

In the short term, the center plans to implement digital technologies to support the fight against tuberculosis in Ukraine within the framework of the WHO program "Supporting the activities of the National Tuberculosis Control Programs" and for this purpose is conducting a preliminary study "Evaluation of the productivity of the implementation of computer detection software in the sorting of X-ray images of chest organs in the program of screening for tuberculosis in Ukraine", the purpose of which is to determine the optimal models for the introduction of automated (computerized) detection of tuberculosis of the chest organs in the pilot regions of Ukraine (CAD system).

One of the goals of the study is to assess the current burden on the analysis of radiographs by radiologists and phthisiologists, as well as to identify obstacles and contributing factors to the introduction of computer-aided detection (CAD) systems in Ukraine.

Your answers will be used to achieve the goal of the research in a generalized form.

Full name of the institution: _____

Region: _____

Personnel potential of the institution

Please indicate the number of doctors working in your institution

	Total full-time positions	of them are busy	All natural persons	of them of pre- and retirement age
Physiologist				
Radiologist				

Number of working hours of doctors

Physiologist: _____ hours/day

Radiologist: _____ hours/day

The average number of examinations (consultations) of patients

($\frac{\text{Кількість усіх пацієнтів усіх лікарів відповідного фаху впродовж найближчих 5-ти робочих днів}}{\text{Усього лікарів відповідного фаху, які працювали впродовж найближчих 5-ти робочих днів} \times 5}$)

Physiologist: _____ patients/day

Radiologist: _____ patients/day

The average number of reviews of radiographs

($\frac{\text{Кількість усіх оглядів рентгенограм усіх лікарів відповідного фаху впродовж найближчих 5-ти робочих днів}}{\text{Усього лікарів відповідного фаху, які працювали впродовж найближчих 5-ти робочих днів} \times 5}$)

Physiologist: _____ unit/day

Radiologist: _____ unit/day

The average time required for a doctor to read, interpret and form a conclusion based on one

X-ray

Physiologist: _____ min

Radiologist: _____ min

Has there been a single day in your facility during the past 6 months when there was **no** physician on site?

Yes, there was no phthisiologist(s)

Yes, there was no radiologist(s)

Yes, there were not both

If yes, please indicate the approximate number of days _____

No

Availability of a full-time IT specialist in the institution

So

No

Technical equipment of the institution

Availability of unlimited access to the Internet in the institution

If yes, then specify Access speed : _____ Mbit/s

Connection type:

Telephone line (Dial - Up)

Broadband (ADSL , etc.)

Dedicated line (PPPoE , etc.)

Optical fiber (PON)

Satellite (Starlink , etc.)

Other _____

No

Availability of doctors' computers (including laptops) at the workplace

Physiologists: Yes No

Radiologists: Yes No

Availability of doctors' access to the Internet at the workplace

Physiologists: Yes No

Radiologists: Yes No

Availability in the institution of specialized software (including medical information systems) for electronic document management , management of patient flows, maintenance of specialized registers, etc.

So
No

Availability of reliable sources of emergency power supply in the institution (generators, high-capacity portable energy storage devices, etc.)

So
No

Availability of specialized computerized diagnostic equipment in the institution

If yes, then specify CT
 MRT
 Digital radiograph
 Digital fluorograph
 Mobile (portable) digital radiograph
 Other _____

No

Is it planned to purchase specialized computerized diagnostic equipment during 2023

If yes, then specify CT
 MRT
 Digital radiograph
 Digital fluorograph
 Mobile (portable) digital radiograph
 Other _____

No

Thank you for your reply!