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Precision diagnosis

APAC radiologist survey

Precision diagnosis:

Radiology's evolution towards a digital healthcare future



Radiology's evolving future

Diagnostic imaging is fundamental to healthcare, yet rising challenges call for swift transformation. Ensuring the right diagnosis has always been a key pillar of healthcare – serving as a critical starting point that informs a patient's journey and a key factor that underpins successful treatment.

Even pre-COVID-19, numerous diagnostic services have long been burdened with high demand, short staffing, uneven quality and inefficient workflows. The pandemic has revealed the urgent need for greater efficiency and responsiveness in diagnosis.

This is also set against rising healthcare challenges of aging populations, chronic disease prevalence, and growing demand for healthcare services – all pointing to a need for swift transformation to enable faster, more precise, and accurate diagnosis.

As a core pillar of healthcare, radiology serves as a critical starting point that informs a patient's state of health, treatment plan, and journey towards recovery. The Precision Diagnosis: Radiology's Evolution Towards a Digital Healthcare Future study unveils findings from radiologists in Australia, Singapore and South Korea around their biggest challenges in radiology operations today, the adoption of innovations like Artificial Intelligence (AI) and multi-modality platforms in workflows and focus areas for healthcare leaders to advance precision diagnosis in their organization.

A growing challenge has been shifting from static patient snapshots to an integrated, digitalized approach that connects physicians with the right data insights for a deeper understanding of the patient and better treatment.

These insights are critical to evolve precision diagnosis towards a smarter, more connected and wholistic view of the patient – enabling physicians to provide more personalized and effective patient care with confidence into the future.

Radiologists face a multitude of workplace challenges...

Top concerns faced



There needs to be decision support to eliminate unjustified studies, decrease exam time or increase staff and machines to cater to increased demand.

Radiologist surveyed

Even as the healthcare industry continues to rapidly digitalize, several factors are hindering technology adoption within radiology:



Top roadblocks/gaps

The pandemic has driven teleradiology adoption...



Reasons for organization using teleradiology



But radiologists still face barriers to streamlining workflows

Amidst healthcare's digital revolution, hurdles hinder gains from the adoption of digital technologies.

Challenges from multiple workflows from different modalities

Lack of interoperability, creating workflow challenges	61%
Lack of clinical imaging expertise	57%
Inefficient setup workflows	55%
Lack of single sign-on	34%
Other reasons	4%

Artificial Intelligence (AI) is a force for change in radiology

Majority of radiologists surveyed champion the use of AI to transform workflows



66

AI will help us to take proactive approach in diagnosing patients' condition with a systematic approach. It will definitely help in tackling this pandemic and will play a crucial role in creating the efficiency and will help to detect potentially severe cases and provide them critical care to those who need it the most.



Radiologist surveyed

But Al's adoption continues to be hindered

Biggest barrier in artificial intelligence adoption





Potential of the technology jeopardizing job security



3% Others

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Conclusion

As the healthcare landscape continues to redefine itself, it is especially crucial to ensure radiology continues to be a key pillar of this transformation. Healthcare leaders need to engage in deeper dialogue with radiologists to understand their pain points and ensure that new technologies are meaningfully implemented and used to their fullest potential. As the first touchpoint of the patient journey, transforming precision diagnosis towards a smarter, more connected practice will enable physicians to overcome manpower hurdles, and provide more personalized and effective patient care into the future.

To find out more how Philips can help to advance precision diagnosis, visit www.philips.com/precisiondiagnosis

About the study

The study was conducted online by Dynata on behalf of Philips in November 2020, among 108 mid- and senior-level radiologists (Associate Consultant or equivalent, and above) in three countries (Australia: n=35; Singapore: n=35; South Korea: n=38). The survey was web-based and self-administered in the primary language(s) of each country. These were non-probability samples and thus a margin of error cannot be accurately estimated.



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