



PowerScribe One

Brochure
Nuance® PowerScribe One

Radiology plays a huge role in disease management.

Growth in the size of the “aged” population in Australia and New Zealand is expected to be a key driver of imaging services’ high demand. Older people tend to be more prone to health issues and diseases.

Radiology plays a huge role in disease management. Radiology reports are arguably the most important products radiologists contribute to patient care.

In addition, there is a [shortage](#) of clinical radiologists in regional areas in Australia, which can cause limitations in patient care and delayed diagnoses.



Older people make up a considerable proportion of Australia's population—in 2017, over 1 in 7 people were aged 65 and over.

In Australia in 2017-18, health professionals [performed](#) more than 27 million diagnostic images that were funded under Medicare.

In 2016 there were 2,013 practising [radiologists](#). Recently, the radiologist shortage has [affected](#) hospital care and service delivery in some areas.



Like most of the developed world, New Zealand has an ageing population. By 2036, it's projected that around 1 in 4.5 people will be aged 65-plus.

New Zealand medical imaging services [market](#) is estimated to garner \$500 million by 2025, growing at a CAGR of 7.3% from 2019 to 2025, in terms of value.

According to the [Census](#), 435 diagnostic radiologists worked in New Zealand in 2018. It's in demand now, with a 12% increase in the need for radiographers predicted between 2016 and 2026



Ageing population and a greater focus on the early [detection](#) and prevention of medical conditions are anticipated to support the radiology industry's performance.

Recently, the COVID-19 pandemic had a profound impact on radiology practices and drove unprecedented changes in healthcare services. Due to the false-negative rate of RT-PCR tests caused by various reasons, clinically suspected COVID-19 patients with a contact history have had CT scans. According to 2020 cross-sectional [survey](#) of Australian radiographers and radiation therapists, changes in work hours and workload were experienced due to COVID-19. Respondents experienced increased personal stress (61.4%) and anxiety (58.2%) at work due to the surge of the pandemic.



The [COVID-19](#) pandemic has rapidly and severely affected private and community-based radiology services throughout Australia.

The [COVID-19](#) pandemic is anticipated to have a mixed effect on the Pathology and Diagnostic Imaging Services industry in New Zealand.

Research and funding have been introduced in Australia and New Zealand for Artificial Intelligence (AI) in medical imaging.

RANZCR released clinical guidelines in radiology to better align it with the digital health sector.

Moreover, according to a New Zealand [study](#), it was confirmed that certain medical specialties experience higher rates of work-related and personal burnout than others. Burnout scores were the highest among healthcare professionals in pathology (50.5), with diagnostic and interventional radiologists (49.8). The contributing factors were associated to resourcing, staffing shortages and increasing volumes of work.

Another study performed by [Medscape](#) confirms that US radiologists complain about spending too many hours at work and being burdened with administrative tasks.

As the pandemic forces delays or cancellation of elective procedures, outpatient radiology volume decreases dramatically. In non-pandemic times however, healthcare organisations/diagnostic imaging centres with a reduced workforce may have radiologists facing higher than usual workloads as elective procedures commence.

Every second counts in the assessment's reporting of the presence or absence of disease and structural damage or anomaly.

A [radiologist](#) does more than merely interpret and report examinations. Among many clinical tasks, they supervise and monitor studies, perform image-guided interventional procedures, and ensure that the requested service is appropriate to answer the clinical question posed by the referrer.

Having accurate patients' diagnostic imaging reports ready to be sent to My Health Record is crucial. Both public and private healthcare professionals can access them.

Digital Health of Australia reported that almost all public healthcare professionals have already [uploaded](#) to My Health Record. The number of private ones is also increasing.

The Australian Digital Health Agency is continuously working with the rest of the healthcare professionals including diagnostic imaging providers across Australia to connect to the My Health Record system and increase the amount of information. This significant progress means better support for healthcare professionals in accessing information and making faster, more informed and accurate clinical decisions.

Artificial intelligence (AI) algorithms, particularly clinical language understanding, have proved to be an extraordinary help in radiology tasks. The broader health system can benefit from efficiencies in making better use of clinician time and improved quality of reporting by reducing the number of errors. In addition, AI based solutions can provide a richer data source and deeper expertise.

According to a recent [survey](#), the perceived advantages of the use of artificial intelligence are,

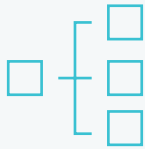
1. improved patient access to disease screening
2. improved diagnostic confidence
3. reduced time spent by specialists on monotonous tasks

Nuance® PowerScribe One

Based on the radiology report, a treatment plan is created for a patient. With Nuance's highly accurate and proven speech recognition engine, solutions for diagnostic reporting deliver actionable data for rapid turnaround times, zero backlogs and consistent reports. PowerScribe One brings new levels of efficiency, quality and performance.

Nuance solutions for diagnostic reporting deliver actionable data for:

- rapid turnaround times
- zero backlogs, and
- consistent reports



Increase radiologist satisfaction through streamlined processes that ease the reporting workflow.



Enhance accuracy by reducing errors and minimising redundancy.



Improve follow up consistency and patient care with automated guidance and quality checks that drive clinical decisions.

Furthermore, by applying robust analytics with [mPower clinical analytics](#), radiologists can extract, aggregate, analyse, and report on the data. This process facilitates the care coordination supporting initiatives to reduce length of stay, reduces inappropriate imaging and unnecessary ordering and drives performance improvement delivering effective clinical care.



Advanced data cleanup and data handling to accommodate multiple organisations and data sources.



Individualised radiologist dashboards for updates on quality events and productivity.



Optimised system with a customer success executive working with the customer to help optimising the system and driving change control within the organisation.

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HIGHLIGHTS

- **3 out of 4** radiologists use Nuance every day
- Integrated with **40+** RIS and **17** PACS



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[Nuance Communications](#) (Nuance) is a technology pioneer with market leadership in conversational AI and ambient intelligence. A full-service partner trusted by 77 percent of U.S. hospitals and 85 percent of the Fortune 100 companies worldwide, Nuance creates intuitive solutions that amplify people's ability to help others.

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HC_5088_01_B, August 2, 2021_EN_AUSTRALIA