



Australian National Radiation Dose Register

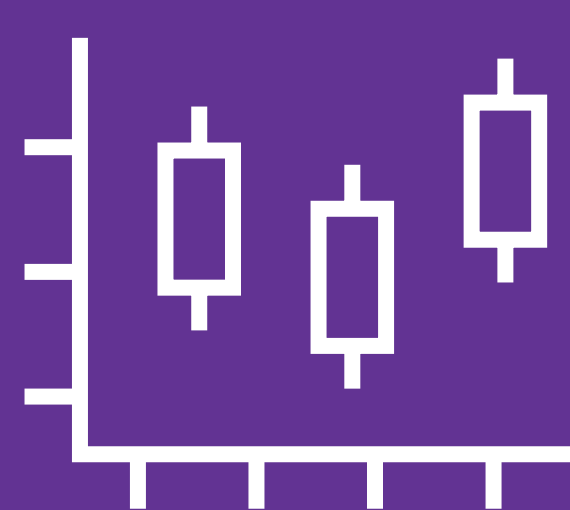
The future of dose record management

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More than
44 000
individual dose
records in the
ANRDR going back
30 years

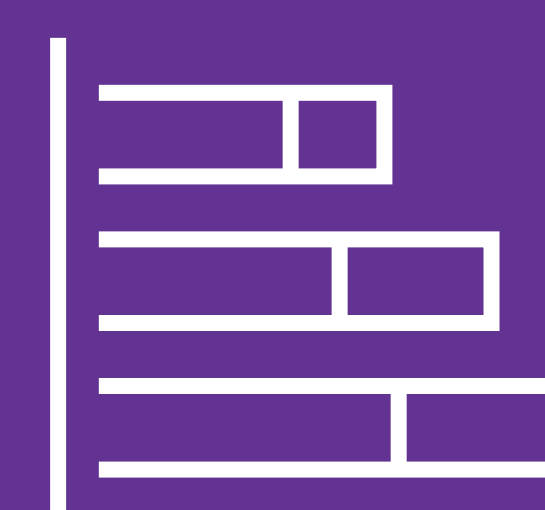
Estimated to be
more than
80 000
radiation workers
in Australia today –
only a small portion
are being captured
in the ANRDR



The average dose of
workers last year was
0.77 mSv



72%
of workers had a
dose of **<1mSv**
last year



Highest dose
recorded in 2018 was
6.91 mSv



27
dose history
requests received by
ARPANSA last year

What is the ANRDR?

Recording and maintaining workers' doses is an essential part of any radiation protection program. The ANRDR supports workplaces by securely storing and maintaining dose records in a central location. This program provides a range of benefits to workers, employers and regulators.

Why do we need a national dose register?



The IAEA recommends the establishment of a national dose register to ensure the longevity of dose records and to allow periodic data analysis to characterise the occupational exposure situation at the national level.

A national dose register is most effective when all radiation workers are included. Achieving complete coverage of all radiation workers will make sure:

- dose records for all workers are consolidated and easily accessible
- any dose limit exceedances are identified and communicated to the employer and regulator
- regulators have oversight of all exposures in their jurisdiction, including statistical breakdowns by workgroups with national comparisons.

What do we do?

- Securely **store and maintain** workers' dose records for the long term
- **Provide dose histories** to workers to assist with work planning or for new employment
- Assist in regulatory control by monitoring doses and **notifying regulators of overexposures**
- **Analyse and publish dose trends** to support dose optimisation efforts
- **Improve radiation protection awareness** for workers through direct engagement and issuing dose histories
- Make sure **employers are in compliance** with long-term record-keeping requirements

What are our goals?

- Make sure all radiation workers in Australia are covered by the ANRDR
- Enhance radiation protection practice and regulation
- Meet international best practice guidelines set out by the IAEA for the management of dose records in a national register

How do we do this?

- Engage with **industry** to encourage employers to sign up to the ANRDR
- Encouraging **workers** to periodically check their dose histories
- Work with **regulators** to make sure the appropriate frameworks are in place to support industry participation in the ANRDR
- Collaborate with **dosimetry service providers** on a project for provision of customers' monitoring results to the ANRDR

Where to from here?

The current ANRDR approach which relies on employers to sign up voluntarily has significant drawbacks and has seen a limited uptake of the program.

To address this challenge, ARPANSA is working with dosimetry service providers and regulators to establish a framework and mechanism to obtain monitoring results directly from providers.