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Strengthening Radiation Protection of Workers –Twenty Years of Progress  
and the Way Forward**

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## **Analysis of Individual Dose Monitoring Results of Radiation Workers from 2009 to 2018**

Since 2009, the number of medical departments related to nuclear medicine has increased, and the number of radiation workers is also growing rapidly. The progress of occupational protection measures can be studied by counting the changes of annual average dose of nuclear related workers.

According to the Chinese Registry of Radiation Workers (CRRW) database, the average annual effective dose of workers from 2009 to 2018 was 0.403mSv. In 2018, after statistics of more than 380000 workers, the annual dose of more than 96% of the tested workers was lower than the specified public limit (1mSv). Compared with 2010, the annual average dose decreased by 31% - 69% according to different types of work. Among them, the proportion of personnel engaged in medical related occupations is about 81.6%, and the annual average dose is about 48uSv higher than that of industrial related personnel.

In addition, the annual average dose of personnel engaged in interventional radiation is the highest, which is most likely to exceed the annual dose limit, so additional protective measures need to be taken.

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