Medical Physics for Patient Benefit

The Journey of an Ionization Chamber

The IAEA celebrates the International Day of Medical Physics
7 November 2018
The ionization chamber in the Secondary Standards Dosimetry Laboratory: the role of the SSDL

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Calibration of a ionization chamber in an **SSDL**
International measurement system

SSDL

1 Gy

SSDL

1 Gy

SSDL

1 Gy

IAEA

1 Gy

PSDL

1 Gy

BIPM

1 Gy

PSDL

1 Gy
International measurement system
IAEA/WHO SSDL network

IAEA acts as central laboratory

86 SSDLs

16 PSDLs

5 International organizations

71 countries
The role of SSDLs

- provide calibrations
- take care of the traceability
- assure consistency
- provide dosimetry expertise.

SSDLs assure that the radiation doses are comparable within the countries.
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