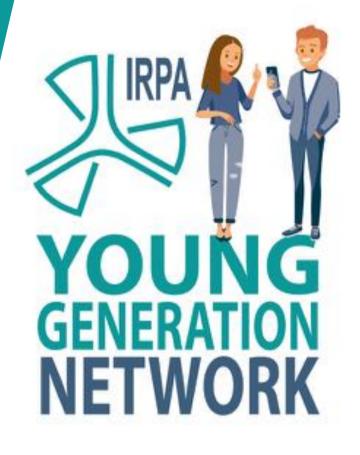
Impacts of Covid-19 on RP

Testimonies from the Young Generation

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on behalf of the IRPA YGN Leadership Committee



Activating the IRPA Young Generation Network

Objective



Bring to light the impacts of Covid-19 from the Young Generation in Radiation Protection point of view

Method



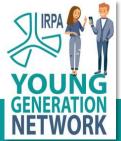
Testimonies collected by questionnaire

- The difficulties encountered in the job because of the Covid-19?
- How do you ensure the continuity/consistency of RP?
- What are the remaining difficulties?

Actions



- Diffusion via IRPA YGN LC
- Start : 26 March
- Last answer : 15 May
- Testimonies made 'public' on the IRPA YGN Blog



Overview

Information about the participants

Analysis by sector of activity



Synthesis, lessons-learned and perspectives

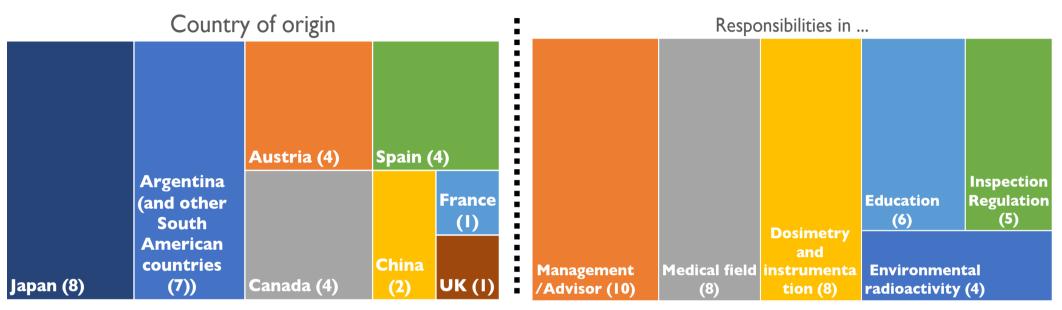


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3 IRPA Young Generation Network

Information about the (30) participants

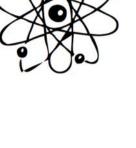


- Answers from 8 countries/regions
- Participants are "multi-tasks" in general: their job covers several RP topics and/or they share several responsibilities in RP
- \Rightarrow the testimonies cover a large panorama of situations



Nuclear cycle and related industries

- Industries have been deemed 'essential' and have pursued operation
 - 'Non-priority activities' have been postponed (e.g. calibration, QA, ...)
- Less RP staff and numerous adaptations on-site
- Reduced RP staff have led to over-work and difficulties to gain information from the field
 - "I cannot adequately do this without seeing the process in person"
 - Concern about a general decline of RP results and indicators have been expressed
- Clarification were needed in the **coordination of radiological & sanitary** risks e.g.
 - Wearing ventilated helmet vs. mask
 - Disinfection of exit monitors sensors







Medical (= hospital)

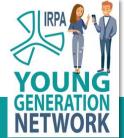
- In front line during the pandemic and all **'non-priority activities'** have been postponed e.g.
 - Non-essential operations using radiation, calibration, QA, etc.
 - Monthly control of dosimeters (or frequency \searrow)
 - Reduced presence of RP staff
- Clarification were needed in the coordination of radiological & sanitary risks,
 - E.g. disinfection of TLD, administration of radiopharmaceuticals, radiology imaging
 - → Interdisciplinary works and (personalized) communication have proved to be the most efficient
 - → The young generation has often been put in front line for communication (ex. hotline)





Research (associated with the nuclear industry and medical sector: monitoring, dosimetric services, etc.)

- The programme of activities has been redeployed
- (1) For 'paper-based RP work'
 - Teleworking has become the new standard
 - The basis of RP job has not changed
 - But numerous practical difficulties have been encountered
- A singularity of the **young generation**: the presence of (very) young children has raised peculiar difficulties, notably in the personal vs. professional balance
 - "I cannot do telework to take care of my baby", "it is HARD to juggle both"
 - "Tough", "stressful" situation and concern about the psychological impacts have been expressed





Research (associated with the nuclear industry and medical sector: monitoring, dosimetric services, etc.)

- (2) 'Practical-based RP works' (= cannot be performed remotely)
 - Restricted to the essential
 - Most have been considered as 'non-priority' and postponed/cancelled
- The young generation is particularly represented in these jobs e.g.
 - Laboratory experiments and calculation
 - Samples collection and measurements (environmental monitoring)
 - Fundamental research often in connexion with an university/a PhD
 - "I cannot access my laboratory to perform my research"
- Some **young generation** participants have been placed on mandatory leaves by Senior Management





Regulation

- Office work have been replaced by home work without "influenced the work"
- On-site inspections have been postponed
- Virtual inspections have been put in place in some cases
 - Via questionnaires for X-ray equipment
 - The position that virtual inspection cannot replace on-site inspections have been expressed





Education and training

- The young generation is particularly represented in this sector
- Face-to-face courses have been cancelled or replaced by remoted teaching
- Early practical difficulties have been encountered with the new tools
- **Teachers** have reported that the switch was a **big challenge** and has required huge work for adaptation
 - And "Are the message still passed?"
- Students have reported concerns about the diminution of interaction
 - "I cannot have discussion with my senior"
- When others have seen the bright side
 - "Students who are shy could actively speak trough the typing"
 - "This is a very good opportunity to introduce the remote teaching"





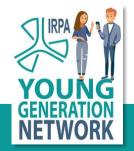
Synthesis

- All RP sectors have been affected
 - ± important depending on the sectors and the type of activity
 - \forall Meetings, events, business trip etc. have been postponed/cancelled
 - ∀ Tele-working/conference have been implemented
- Paper-based work have faced organisational impacts 'only'
 - However the consequences on the consistency of RP cannot be disregarded
- A reduced RP presence in hospitals and nuclear-cycle related industry
 - Decline of RP indicators? Ensuring a high level of RP might not be possible on long term
- Many challenges in the coordination of RP & sanitary risks
- Research and RP procedures etc. **not the priority**
- Unprecedent switch in education and training in RP



Synthesis

- Specific items associated with the **young generation** have been identified, e.g.
 - Specific activities that require the presence at research installation, laboratories, hospitals (e.g. for PhD, post-grade, ...) cannot be pursue
 - Education at home and the limited teacher-students connexion
 - The presence of (very) young children at home during confinement and the increased difficulties in the management of personal/professional balance
 - The understanding of Senior's decisions



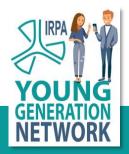
Participants have drafted comparisons between Covid and RP

- The knowledge in RP have been reported as very useful in the situation
 - Preventing from radiation and from virus has been considered as 'comparable'
- Hospitals in Japan used their experience from Fukushima accident
 - E.g. for the triage or the management of PPE
- Communication in emergency are comparable
 - Fake news have spread rapidly
 - The question of the message from experts vs. social media
 - Harmonization of the messages from experts
- Concerns about the initiative of using radiation for disinfection purposes have been expressed



Some lessons-learned

- Working with digital tools have proven to be possible
 - Is the young generation more "flexible" technologically-wise (?)
- Access to document/data was an issue and it is recommended to consider access via VPN
- In all sectors, transdisciplinary working group, internal training and personalized communication have appeared the most advisable for the elaboration and the dissemination of new procedures
- It it recommended to consider multiple alternatives for 'non-routine situations', including ultimate RP contingency plan (nuclear industry)
- Where the organization is prepared, the transition have been reported as "smooth"



Perspectives

- Networks are more important than ever in a context of pandemic
- The IRPA YGN took the initiative to share and communicate about the impacts of the Covid-19 on radiation protection
- <u>Result</u> : The young perspective on ('all') RP areas in this unprecedent situation
- Communication of the ppt (and translation if needed) by national Young Generation Networks
- Feedback and agreement on the challenges (still) at stake
- A synthesis on text format will be finalized in 2020

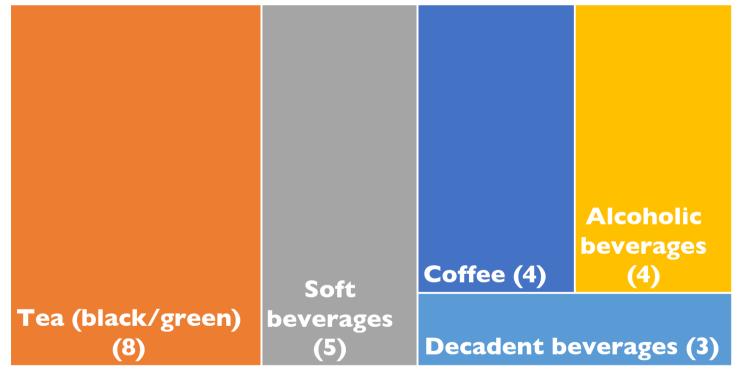


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Bonus question

What is your prefered drink during confinement?







One website internet http://www.irpa.net/YPN/index.asp

One mini-blog (password) https://irpaygn.posthaven.com

