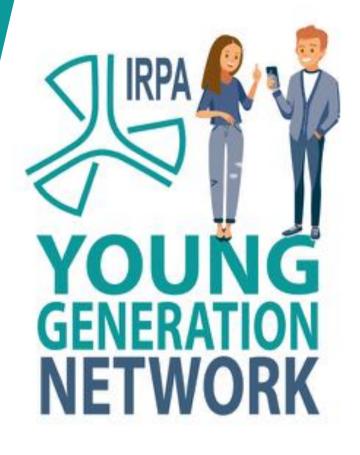
# **Impacts of Covid-19 on RP**

# **Testimonies from the Young Generation**

Sylvain ANDRESZ Nuclear Protection Evaluation Centre, France Franz KABRT Austrian Agency for Health and Food Safety, AGES, Austria Omar NUSRAT Ontario Tech University, Canada Cinthia PAPP National Atomic Energy Commission, Argentina

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



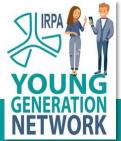
**Testimonies** collected by questionnaire

- 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

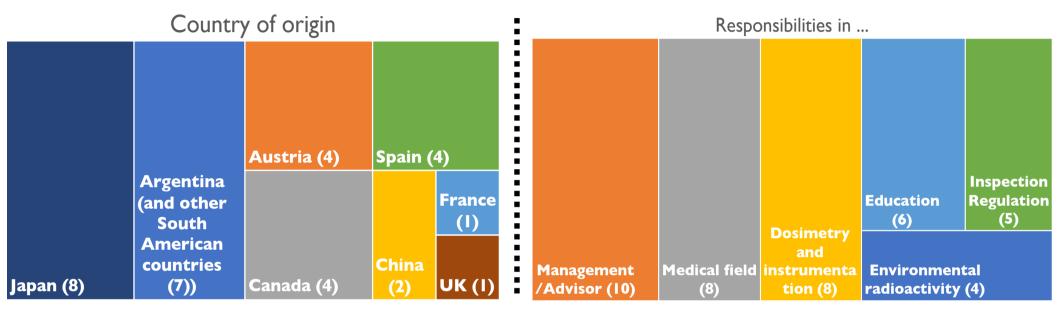


The views and opinions expressed in this synthesis are those of the participants and do not reflect the global position of any of the IRPA organization. Analysis performed within this synthesis should not be utilized in real-world analytic products and the views and opinion should not be generalized as they are based only the limited information.



3 IRPA Young Generation Network

### Information about the (30) participants

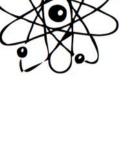


- Answers from 8 countries/regions
- Participants are "multi-tasks" in general: their job covers several RP topics and/or they share several responsibilities in RP
- $\Rightarrow$  the testimonies cover a large panorama of situations



## **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)

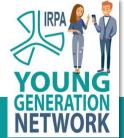
- In front line during the pandemic and all **'non-priority activities'** have been postponed e.g.
  - Non-essential operations using radiation, calibration, QA, etc.
  - Monthly control of dosimeters (or frequency  $\searrow$ )
  - Reduced presence of RP staff
- Clarification were needed in the coordination 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"





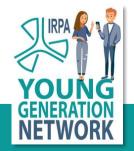
## **Synthesis**

- 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



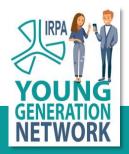
#### **Participants have drafted comparisons between Covid and RP**

- 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

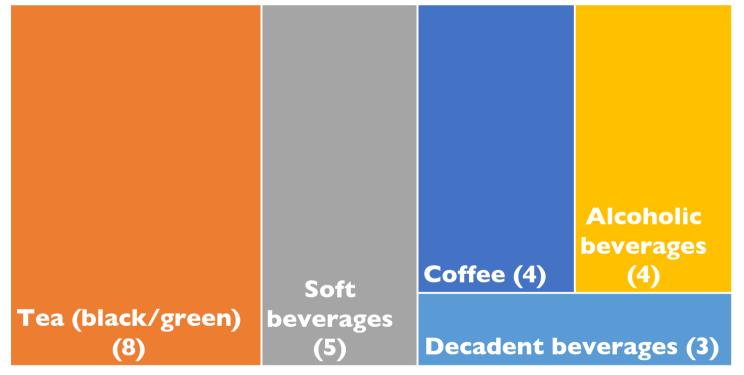


The views and opinions expressed in this synthesis are those of the participants and do not reflect the global position of any of the IRPA organization. Analysis performed within this synthesis should not be utilized in real-world analytic products and the views and opinion should not be generalized as they are based only the limited information.



#### **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

