



COUNTRY REPORT OF VIETNAM

Dr. TRAN Ngoc Toan

Vice – President of Vietnam Atomic Energy Institute

OUTLINE

1. Introduction
2. Status of nuclear technology applications under the Pandemic
3. Activities in response to the Pandemic
4. Conclusion

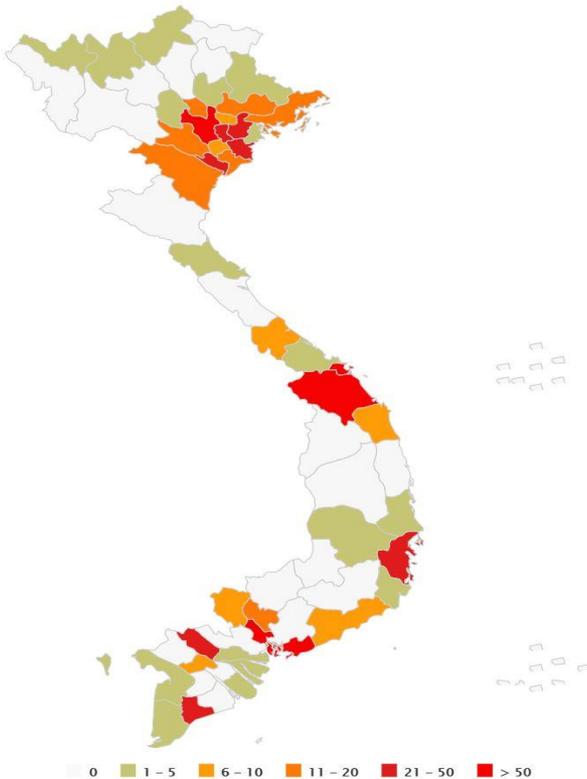
1. Introduction

Over the world update, 21st Nov 2020

- Cumulative cases: 58 480 602
- Cumulative deaths : 1 385 778
- Recovered: 40 459 893

Vietnam, update 21st Nov 2020

- Cumulative cases : 1306
- Cumulative deaths : 35
- Recovered : 1142



In Viet Nam, the pandemic COVID-19 is basically controlled, some of new cases are all imported and quarantined on arrival.

Map of provinces and cities by the number of COVID-19 confirmed cases (update 21st November, 2020)

2. Status of nuclear technology applications under the Pandemic

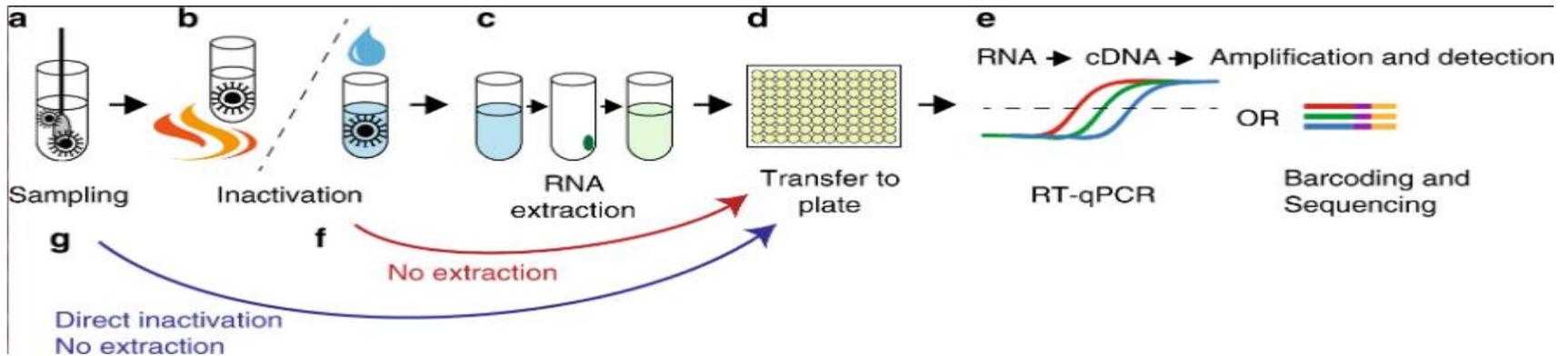


- In the pandemic situation and implementation of social distancing, nuclear medicine and radiotherapy facilities have been maintained under radiation safety conditions and prevention of virus transmission.
- Since March 2020, Cyclotron centers nationwide have decreased the production of radiopharmaceuticals F18-FDG due to decline in PET/CT demand (as a consequence of social distancing). However, the production of Cyclotron centers has been maintained to serve for patients being treated in nuclear medicine and radiotherapy facilities.
- In 2020, as a consequence of COVID-19, the total volume of irradiated goods for export has decreased dramatically.

3. Activities in response to the Pandemic



Viet Nam has applied RT-PCR, a nuclear-derived method, and developed successfully the test kits to detect the coronavirus COVID-19. It continues to be the most accurate method available for the detection of the COVID-19 virus.



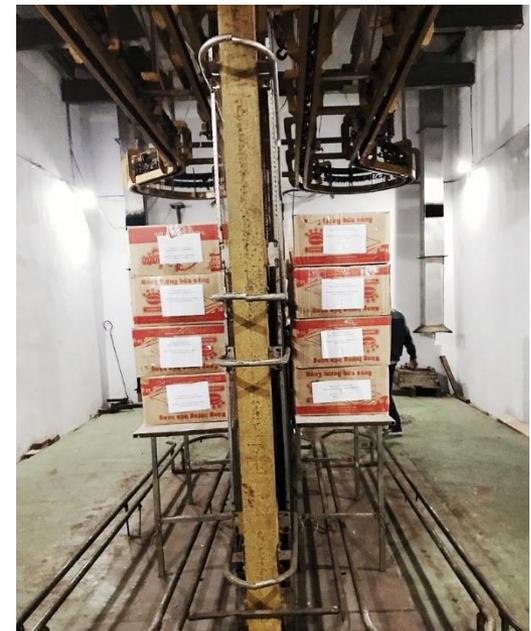
Irradiation of medical equipment

In the complicated situation of the COVID-19, to join hands and fight the pandemic, Hanoi Irradiation Center, VINATOM has irradiated medical equipment and products:

- Till the mid of April, 2020, the total number of sterilized medical equipment for Bach Mai Hospital are: 102.300 Nano face masks; 22.525 N95 face masks and 960 protective clothing.



Irradiated face masks



3. Activities in response to the Pandemic



Dalat nuclear reactor increases the production of radiopharmaceuticals

- The widespread of COVID-19 results in difficulties in importing radiopharmaceuticals, but the Dalat Nuclear Research Institute has strived for supplying enough radiopharmaceuticals for nuclear medicine facilities in Viet Nam during the pandemic.
- Update to November 2020, Dalat nuclear reactor operated nearly 3700 hours and produced 1200 Ci radiopharmaceuticals (increased by approximately 3 times and 48% respectively compared with the five-year average)



Dalat Nuclear Research Institute



4. Conclusion

- Applications of nuclear science and technology have made significant contribution to the social and medical well-being development in Viet Nam, especially under the Pandemic. Towards sustainable development, these potential applications should be further enhanced at global scale.
- Viet Nam desires to strengthen cooperation with FNCA and other cooperation channels to promote peaceful applications of nuclear energy for socio-economic development in Viet Nam, particularly addressing issues of human health, environmental protection and climate change mitigation

**THANK YOU
FOR YOUR ATTENTION**