

You are the Health Physicist at a research facility. An accident has occurred resulting in non-routine exposures to workers and members of the public.

You are required to advise a variety of people on the significance of the exposures:

- You will assist the occupational health physician in providing counseling to the effected workers.
- You will advise senior management on the safety and regulatory significance of the doses.
- You will assist public relations staff in preparing communications to the community.

Exposures are as follows:

- Employee A received a whole body acute exposure of 4 Gy from gamma rays.
- Employee B received a whole body acute exposure of 1 Gy from gamma rays.
- Employee C received a whole body acute exposure of 3 mGy from gamma rays.
- Employee D received an intake of 1MBq of I-125 by inhalation.
- Employee E received a whole body acute exposure of 3 mGy from gamma rays and is pregnant.
- Employee F received an exposure of 4 Gy to the right hand.
- Releases from the facility will result in a maximum dose of approximately 0.5 mGy as a result of direct exposure from a passing plume. The average dose to the 10 000 people in the community will be approximately 10  $\mu$ Gy.

What are the key points of the communication for each of these cases?