

Consignor-carrier-consignee integration, essential cooperation factor for safety and security in ^{131}I and $^{99\text{m}}\text{Mo}$ -Tc generators national transport.

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Abstract.

One of main challenges facing nuclear medicine in terms of quality and efficiency of this increasingly in-demand medical service is reliable radiopharmaceuticals supply to medical units. This aspect is even more relevant for hospitals located far from production sites in low-income countries.

This paper presents the experience of national cooperation between consignor, carrier and consignee in radioactive iodine and $^{99\text{m}}\text{Mo}$ -Tc generators transport for nuclear medicine services, in compliance with their responsibilities, assigned in "National guide for implementation of regulations for safe transport of radioactive materials," by road for the consignor and consignee, and by plane, between them. This operation has been carried out twice a month over last seven years.

The paper presents too, established requirements in the regulatory framework for this activity by country competent authorities on this matter and analyzes other requirements for this cooperation stated in issued regulatory authority authorizations.

Evidence of compliance with prescribed in authorizations requirements, and of monitoring these activities has been taken from Hospital radioactive packages transportation records.

As result, it can be concluded that strict collaboration, based on compliance with assigned responsibilities in force applicable regulations, reflected primarily in existing regulatory framework and in authorizations granted by regulatory authority for transport, has guaranteed the safe and secure supply of radioactive material required for this service to the Hospital.