US Sanctions against Iran; an Irreversible Disaster for Cancer Patients

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After Joint Comprehensive Plan of Action (JCPOA) between Iran and 5+1 group countries, a relative space was opened to supply radiotherapy equipment in the country,1 which was suddenly disrupted by Trump’s decision to leave JCPOA in May 2018 (Despite Iran’s adherence to the agreement which has repeatedly been verified and approved by the International Atomic Energy Agency). The dollar and other currencies rose sharply and Iran’s international trade with other countries was restricted. As a result, access to new equipment was hampered. Currently, repairing or supplying spare parts for accelerators are both expensive and time-consuming, resulting in prolonged device downtime. This means delays and/or interruptions in the course of patients’ radiation treatment program and a decrease in the therapeutic effects of radiation as well as potential reduction of patients’ survival.2

In the case of brachytherapy utilizing radioactive sources, the situation is more deplorable. According to the ISRO (Iranian Society of Radiation Oncology) Survey in 2018, there were 18 brachytherapy centers including 8 remote after loading systems, 4 eye brachytherapy units, and 6 being in setup and/or inactive condition. However, lack of brachytherapy sources due to prior sanctions resulted in fact that only two centers have been used since 2015.3 Equipping the country’s brachytherapy centers was improving after the JCPOA, but the trend has stopped again.

Advanced radiotherapy techniques, including IMRT, SRS, SBRT, etc., which nowadays constitute the majority of radiation treatments in developed and developing countries, are virtually absent in Iran. Iran’s only Gamma-knife center has been shut down due to lack of radioactive source.3

The international medical community needs to take a practical action for this basic right of treatment as soon as possible.

Authors’ Contribution
MRB and SRM wrote the manuscript and provided data. PE supervised the manuscript. All authors reviewed the final manuscript.

Conflict of Interest Disclosures
None.

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Not applicable.

References