

C-22

Patient Travel Concerns After Treatment with Peptide Receptor Radionuclide Therapy (PRRT)



A. Kendi¹, T. Halfdanarson², B. Naraev³, D. Mercer⁴, J. Underwood⁵, J. Mailman⁶; ¹Department of Radiology, Mayo Clinic, MN/United States of America, ²Cancer Center, Mayo Clinic, MN/United States of America, ³Banner MD Anderson Cancer Center, AZ/United States of America, ⁴Los Alamos National Laboratory, NM/United States of America, ⁵Mayo Clinic Radiation Safety, MN/United States of America, ⁶NorCal CarciNET Community, CA/United States of America

BACKGROUND: PRRT has been used for the treatment of advanced somatostatin receptor positive gastroenteropancreatic neuroendocrine tumors. Most commonly used forms of PRRT are Lutetium 177 labeled DOTATATE (Lutathera, Advanced Accelerator Applications, a Novartis company) which was recently approved by U.S. Food and Drug Administration (FDA) and Yttrium 90 labeled DOTATATE. In our experience, it is not uncommon for patients recently treated with PRRT to be stopped by United States Customs and Border Protection (CBP) officers while traveling, due to the detection of residual radiation activity. We present results of an online public survey about patient experience with travel after PRRT.

METHODS: An online public survey performed by one of our authors (JAM) regarding patient experience at the US ports of entry and high security areas after PRRT.

RESULTS: 54 episodes of treatment-related travel delays reported in the survey. Time from radiation detection to final security clearance was less than 30 min in 17% of cases (9 events), 30-60 min - in 22% (12 events), 1-2 hrs - in 37% (20 events), more than 2 hrs - in 24% (13 events). Majority of patients (44 pts, or 81%) reported being treated with Lu177, 15% (8 pts) - with Y90, 4% (2 pts) - with combination of Lu177 and Y90.

CONCLUSION: Traveling while undergoing PRRT should be discussed with the patient by the clinical care team and nuclear medicine/nuclear radiology team prior to treatment to avoid any unwanted surprises. Patients can arrange their schedules accordingly if they are well informed about this process ahead of time.

ABSTRACT ID: 36