

**2018 Mo-99 TOPICAL MEETING ON  
MOLYBDENUM-99 PRODUCTION TECHNOLOGY DEVELOPMENT**

**SEPTEMBER 23-26, 2018  
HILTON KNOXVILLE HOTEL  
KNOXVILLE, TN**

**Update on Domestic Production of Mo99 via Neutron Capture**

J.T. Harvey

NorthStar Medical Technologies, LLC  
1800 Gateway Blvd, Beloit, WI 53511 – USA

**ABSTRACT**

NorthStar has multiple efforts towards establishing a domestic supply of Mo99. One effort is reactor based utilizing the neutron capture process at the Missouri University Research Reactor (MURR) reactor. The second effort is an electron accelerator based process utilizing the photon capture process at NorthStar's Beloit site. In either case, a new type of generating system that is capable of accepting a low specific activity solution of Mo99 and yielding a USP compliant, high specific activity Tc99m product is necessary. NorthStar's presentation will describe current status of the neutron capture production, inspection and approval of NorthStar's production facilities by the us FDA and the us FDA approval of RadioGenix® Tc99m generating system NDA.