Reduced Particles MAA Worksheet

Patient's Name

MR# _____

1. Dilute MAA vial with 5 mL of saline. Withdraw a 1 mL aliquot and place it in a 30 mL sterile empty vial.

Calculate the total # of particles in the 1 mL aliquot:

Total particles in vial = _____

5mL	- =	Particles/mL
	5mL	

 Calculate total volume needed to make the kit of reduced particles (all contents go into a 30 mL sterile vial)

# Particles in 1 mL (step 1)		
# of Particles required for Pt	 =	mL

3. Calculate the activity of ^{99m}Tc required for patient dose. See <u>dose ranges</u>.

Dose in mCi **x** total volume (activity x volume (step 2) define total 99m Tc in mCi. Adult dose is usually 3.5 mCi, however, pediatric dose must be acquired by the physician. Total activity is then determined below:

_ mCi x _____ mL = _____ mCi-mL volume needed

4. From the elution vial add the required ^{99m}Tc activity to the 30 mL vial and note its volume.

Volume of ^{99m}Tc added to 30 mL vial = _____ mL

- 5. Incubate for 15 minutes. Smaller particle amount may require up to 30 minutes incubation.
- 6. Calculate the volume of normal saline needed in the 30 mL vial.

mL (Total Volume) - [mL + 1.0 mL] = mL	