

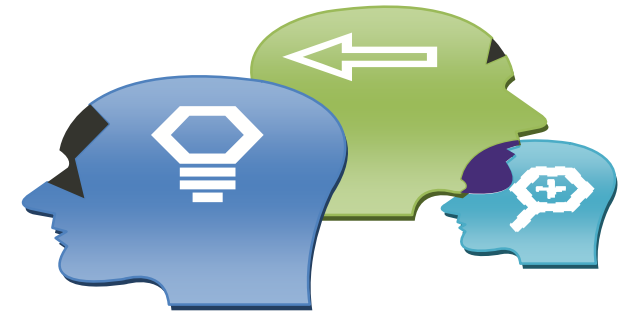
TRODAT - 1

Preparation of Tc-99m-TRODAT-1

Place one lyophilized TRODAT-1 kit vial in a suitable lead-shielding container.
Using a 5 mL syringe, inject into the shielded vial 5 mL of Sodium Pertechnetate Tc-99m solution.
Withdraw 5 mL of gas from the space above the solution to maintain atmospheric pressure within the vial.
Autoclave the shielded vial at 121°C for 30 min.
After cooling to room temperature, the Tc-99m-TRODAT-1 formed is suitable for intravenous injection.

Dosage and Administration

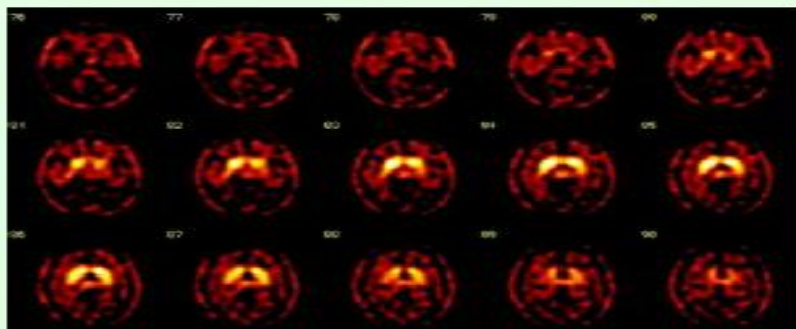
The recommended dose range for I.V. administration of Tc-99m-TRODAT-1 in a single dose to be employed in the average patient (70 kg) dose is 814~1036 MBq (22~28 mCi).
SPECT imaging should be performed after 3~4 hours post-administration.



Preparation of Tc-99m-TRODAT-1



Administration of Tc-99m-TRODAT-1 solution intravenously



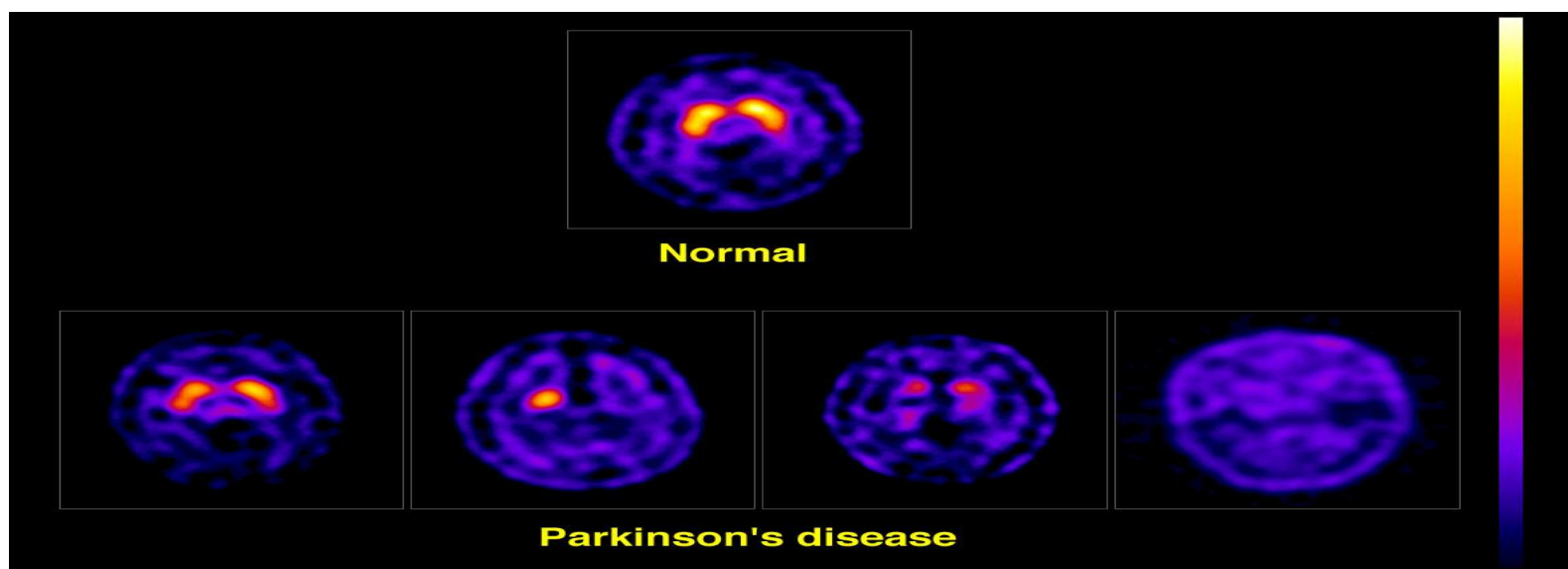
Acquisition of images



Imaging a patient on a SPECT

Diagnosis

The differentiation between a normal and abnormal distribution is primarily based on shape which reflects differences of uptake intensity.



References:

1. PET AND SPECT OF DOPAMINE TRANSPORTER • Varrone and Halldin
2. Diagnostic accuracy of [99mTc]TRODAT-1 SPECT imaging in early Parkinson's disease, K.L. Choua,*, H.I. Hurtiga, M.B. Sterna, A. Colchera, B. Ravinab, A. Newberg, 2004 Elsevier Ltd. All rights reserved. doi:10.1016/j.parkreldis.2004.04.002
3. Sensitivity and Specificity of 99mTc-TRODAT-1 SPECT Imaging in Differentiating Patients with Idiopathic Parkinson's Disease from Healthy Subjects, Weng et al., J Nucl Med 2004; 45:393-401
4. SPECT Imaging of Dopamine Transporters With 99mTc-TRODAT-1 in Major Depression and Parkinson's Disease The Journal of Neuropsychiatry and Clinical Neurosciences 2011; 23:63- 67)
5. Evaluation of early stage Parkinson disease with TroDAT-1 Tc99m imaging J Nucl Med 2001; 42:1303-1308
6. Kinetic Modeling of [99mTc]TRODAT-1: A Dopamine Transporter Imaging Agent J NucMed 1999; 40:150-158

