

Accepted Manuscript

Validation of Iodine-131-meta-iodobenzylguanidine cardiac scintigraphy in Parkinsonism: A preliminary study

Dan Xu, Wenjia Zhu, Li Huo, Shikun Zhu, Fang Li, Han Wang



PII: S1353-8020(18)30056-7

DOI: [10.1016/j.parkreldis.2018.02.020](https://doi.org/10.1016/j.parkreldis.2018.02.020)

Reference: PRD 3564

To appear in: *Parkinsonism and Related Disorders*

Received Date: 13 November 2017

Revised Date: 26 December 2017

Accepted Date: 8 February 2018

Please cite this article as: Xu D, Zhu W, Huo L, Zhu S, Li F, Wang H, Validation of Iodine-131-meta-iodobenzylguanidine cardiac scintigraphy in Parkinsonism: A preliminary study, *Parkinsonism and Related Disorders* (2018), doi: 10.1016/j.parkreldis.2018.02.020.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Validation of Iodine-131-meta-iodobenzylguanidine cardiac scintigraphy in Parkinsonism: a preliminary study

Dan Xu^a, Wenjia Zhu^b, Li Huo^b, Shikun Zhu^b, Fang Li^b, Han Wang^{a*}

^a Department of neurology, Peking Union Medical College Hospital, Beijing, China

^b Department of nuclear medicine, Peking Union Medical College Hospital, Beijing, China

* Corresponding author. Department of neurology, Peking Union Medical College Hospital, Beijing, China.

Postal address: Shuaifuyuan 1, Wangfujing Street, Dongcheng District, Beijing, China, 100730

Tel.: +86 186 0004 4179.

Email address: wanghan4179@pumch.cn

Key words: ¹³¹I-MIBG, cardiac sympathetic scintigraphy, Parkinson's disease, parkinsonism

Abstract

Introduction

¹²³I-MIBG is the most commonly used radiopharmaceutical to depict cardiac sympathetic innervation. The purpose of this study was to validate the feasibility of ¹³¹I-MIBG as an alternative myocardial sympathetic imaging probe in differential diagnosis of Parkinsonism.

Methods

We recruited 17 patients with PD, 21 patients with other parkinsonism (17 with MSA and 4 with PSP), and 6 normal controls. All participants underwent ¹³¹I-MIBG scintigraphy for both early and delayed imaging. The image quality was independently assessed by two experienced nuclear medicine specialists and graded into three categories: 1, good image quality; 2, suboptimal but sufficient for diagnosis; and 3, poor or nondiagnostic. Cardiac MIBG uptake was quantitatively measured using H/M ratio and washout rate.

Results

Download English Version:

<https://daneshyari.com/en/article/8285470>

Download Persian Version:

<https://daneshyari.com/article/8285470>

[Daneshyari.com](https://daneshyari.com)