

## Foreign Outpatient: Multi-modal diagnostic imaging services inquiry

**From:** Amarnath Jena <drjena2002@gmail.com>  
**To:** Michal Siemaszko <mhsiemaszko@fastmail.net>  
**Subject:** Re: Foreign Outpatient: Multi-modal diagnostic imaging services inquiry  
**Date:** Friday, March 02, 2018 11:11 PM  
**Size:** 36 KB

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Dear Michal,

Please refer your mail dated 02 Mar 2018 seeking further clarification about your tests.

I confirmed, as stated earlier, availability of multimodal diagnostic imaging facilities like PET/MRI and SPECT/CT including facility to provide images in DICOM format, 3D recon of images and image fusion using fusion software. You may note that fusion of images within one modality like PET/MRI or SPECT/CT while is a routine, we do not practice across modalities image-fusion like fusing of PET/MRI images with SPECT/CT images.

Secondly I am only involved in your PET/MRI test. For SPECT/CT as I mentioned during our discussion, you need to consult our Nuclear Medicine Department and Mr Anuj will help you to have an appointment with the concerned specialist and schedule a date for you.

To have clinical consultations here at Apollo Hospital (Neurology, urology, plastic surgery) you will get necessary assistance from the foreign out patient's section. Since you had reservation and preferred not to have a pre-test consultation as suggested also by your primary physician, I considered appropriate for you to have a PET/MRI test to start with based on available clinical description. Accordingly you have possibly been scheduled for the test on Monday 5<sup>th</sup> Mar 2018. You may choose to discuss further about your case before the test for any change.

Dr Jena

On Fri, Mar 2, 2018 at 12:47 AM, Michal Siemaszko <mhsiemaszko@fastmail.net> wrote:

Dr. Jena,

Thank you for taking your time yesterday to discuss these multi-modal diagnostic imaging tests we'll be starting next week - my appointment is already scheduled.

You confirmed all tests from the referral I presented can be performed at your facility, as well as 3D reconstruction and co-registration services, and any necessary consultations - i.e. with specialists in neurology, urology, plastic surgery - in order address clinical questions presented, holistically diagnose this condition and recommend treatment plan.

You mentioned we'll be starting with whole body PET/MRI with FDG, followed by focused PET/MRI studies like PET/MRI Neurography, PET/MRI Urography, soft tissue assessment in area where scarred skin lesions can be seen, and genital blood flow assessment. If we cannot cover all these different organs/tissues/functions of the body (especially since with PET/MRI we'll be evaluating function as well as anatomy) within one session, these more specific tests will be scheduled separately, using specialized contrasts/tracers for properly evaluating these organs/tissues and their functions.

Since data from those two SPECT/CT tests mentioned in the referral, co-registered with data from PET/MRI tests focusing on these same symptoms (i.e. neurological, urological), will provide much better overall view, I'd prefer these are done as well to help in formulating a more accurate diagnosis, also for medico-legal documentation purposes.

I mentioned the CT/MRI radio-opaque markers needed for these tests which will be co-registered, as well as for marking scar area, I have with me; you can verify these markers are medically approved for CT as well as MRI @ <https://www.beekley.com/Product-Details/PinPoint-for-Image-Registration-128>

As regards payment, my understanding is for all of the tests and specialist consultations I will be billed the day they are done, and I will pay for them in cash; please clarify regarding compensation for your time in properly guiding these investigations from nuclear medicine side of things.

I'm looking forward to working with you during the next 1+ week.

Kind regards,

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On Tue, Feb 13, 2018, at 8:05 AM, Anuj Gupta wrote:

Dear Mr. Michal ,

PET/MRI and SPECT/CT scans are available. Tests are being done with appropriate contrast medium and image evaluation with image fusion /co-registration and 3D reconstruction as routine. Images in DICOM format are used for analysis and achieving.

As regards the test type (PET/MRI or /and SPECT/CT ): you need to consult your attending doctor as these tests are done in different clinical context. A detailed note from your attending doctor giving clinical history of your problem and specific information being sought from the test will help to understand your problem and better plan the appropriate test in your interest. Once the test type is decided you can contact us for further instructions as regards to pre test preparation and precautions etc.

Thanks & Regards,  
Anuj Gupta  
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On Fri, Feb 9, 2018 at 9:06 PM, Michal Siemaszko <[mhsiemaszko@fastmail.net](mailto:mhsiemaszko@fastmail.net)> wrote:

Dear Mr. Gupta,

We spoke on the phone today shortly - I called to confirm availability of multi-modal diagnostic imaging services at your hospital.

I mentioned I was referred to you by "*Fortis Memorial Research Institute*" from Gurgaon near New Delhi, as they supposedly do not have the diagnostic imaging equipment / skills necessary to perform the diagnostic tests I need done.

Below please find detailed specification of tests / services I need for my investigations. Kindly please review and confirm these can be done at your facility and provide approximate cost. I already have Indian Medical Visa and would like to proceed as soon as possible.

#### I. Multi-modal diagnostic imaging services

##### **1. Scans**

- a) PET/MRI scan of abdomen/pelvis/uro-genital area with contrasts/radiotracers
- b) SPECT/CT scan of abdomen/pelvis/uro-genital area with contrasts/radiotracers

As far as I know, you have a **simultaneous PET/MRI scanner** (*Siemens BioGraph* or similar, i.e. <http://petmri.in/>). If you also have a **simultaneous SPECT/CT scanner** (as far as I know, most modern scanners can do simultaneous SPECT/CT), then this could also be done in one test, otherwise separate SPECT and separate CT.

It's essential scans provide high-resolution data - i.e. min. 64 slices / pref. 128-256 slices.

## 2. Contrasts/radiotracers which must be applied

- a) for marking wound area - so it's clearly visible in scan
- b) for thigh area tendons/muscles/nerves, and
- c) for bladder - so CT/MR Urography can be done

Kindly please confirm contrasts/radiotracers mentioned will be available so these areas can be highlighted properly.

## 3. Results of these test need to be fused/co-registered for one view, as well as 3D reconstructed.

Please confirm availability of such service at your facility and specify approximate cost for this service as well.

Example of specialist 3D reconstruction service of DICOM diagnostic imaging data:

[http://teleradproviders.com/3d\\_reconstruction.php](http://teleradproviders.com/3d_reconstruction.php),  
<https://medmovie.com/medical-legal/3d-reconstructions/>

## 4. All output (diagnostic imaging data, memos from any consultations, diagnoses, etc.) provided in English language and in digital form, in relevant industry standard where applicable (e.g. imaging data in DICOM format).

Unless this is included in price of tests, please specify approximate cost for this service as well.

## 5. Referrals for the above tests from my doctor can be provided if you require such.

## II. Background

Data gathered from this multi-modal diagnostic imaging phase will be used to recommend further tests and draw diagnosis, as well as allow me to obtain medico-legal opinion.

Medical problem which is being solved thus is related to bodily injury due to assault in January 2014. Short description is provided via infographic (PDF attached). Textual description follows.

### 1. Symptoms - textual description

- a) Scar - all the other symptoms described appeared at the same time as the scar; neurological damage - numbness with tingling of left thigh - can be felt radiating from area where the scar is;
- b) Thigh - frequent numbness with tingling of entire thigh area, up to knee and sometimes further down - can be felt radiating from area where the scar is; disorder of cremasteric reflex;
- c) Bladder - neurogenic bladder, urine retention problems - both appeared at the same time as the scar;
- d) Penis - form and function significantly changed; block can be still felt while urinating, i.e inside urethra running inside penis - those can also be traced back to the scar, i.e. present ever since;

### 2. USG tests from 2014 and 2016 - both indicating urine retention problems, as well as neurogenic bladder diagnosis, can be provided if needed.

**3. Pictures of scar mentioned can be provided if needed.**

If you can confirm availability of tests / services as per specifications mentioned above, I realize to organize / book equipment / order specific contrasts/radiotracers you will incur costs, therefore advance payment for your services can be arranged.

Looking forward to hearing back from you.

Regards,

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Michal H. Siemaszko

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