

24th June 2011

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Examination Date: 8th June 2011

os

Re: Mr Ian SPENCER - 2 Ocean Grove Warrnambool 3280

Cerebral Perfusion Study

Technique

Baseline Study: 810 MBq of Technetium ECD has been injected after 15 minutes of rest in a quiet environment, with subsequent cerebral SPECT acquisitions with multi-planar and 3D reconstructions.

Cognitive Challenge: Two days after the rest study, a cognitive challenge test has been performed (Stroop Test) for 8 minutes, with an injection of 815 MBq of ECD at the 4 minute mark. Subsequent cerebral SPECT acquisitions were performed, followed by multi-planar and 3D reconstructions. 3D quantitative cortical, basal ganglia and limbic perfusion analysis has been performed on both sets of data.

Results

Baseline Study:

There is mild reduction of tracer uptake in the medial aspect of the left temporal lobe. Uptake within the right temporal lobe is normal. Uptake throughout the frontal and prefrontal regions, basal ganglia, and anterior cingulate gyrus is normal bilaterally.

Cognitive Challenge Study:

Reduced tracer uptake is noted in the medial aspect of the temporal lobes bilaterally. Uptake within the frontal lobes, anterior cingulate gyrus and basal ganglia bilaterally is normal.

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Cont..... Mr Ian SPENCER - 12/04/1966

Conclusion

Reduced tracer uptake is noted medially within the left temporal lobe on baseline imaging, with bilateral medial temporal lobe hypoperfusion following cognitive challenge.

**Dr Andrew Baldey,
Electronically signed Fri 24/06/2011 12:14 pm**

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