## Poster discussion, 122PD – 124PD

Ryo Nishikawa

Saitama Medical University International Medical Center, Saitama, Japan



## Ryo Nishikawa: Disclosures

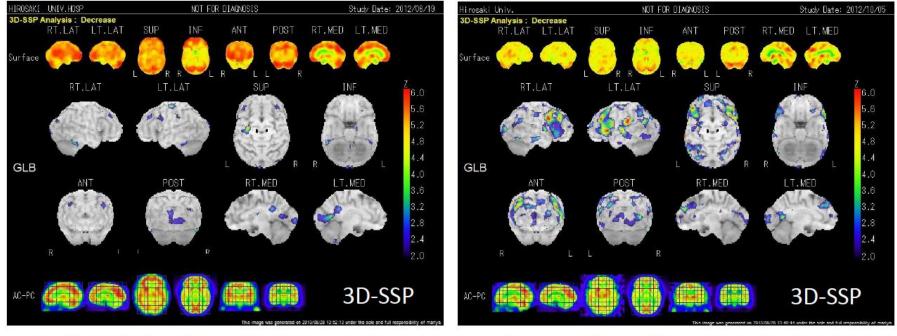
- AbbVie
- Roche
- Chugai
- MSD
- Novocure
- Eisai



122PD: Stereotactic statistical analysis of brain perfusion SPECT using 3-D stereotactic surface projections to estimate brain function of the patients harboring brain metastases before and after radiotherapy. Mariya Y, et al. Hirosaki, Japan

- Regional CBF of brain was analysed using 3D-SSP technique.
- 12 cases were included: WBRT 9, partial 1, SRT 2.
- Before and 2-4 months after RT, 3D-SSP and MMSE were performed.





3-D SSP before treatment

## 4 months after treatment

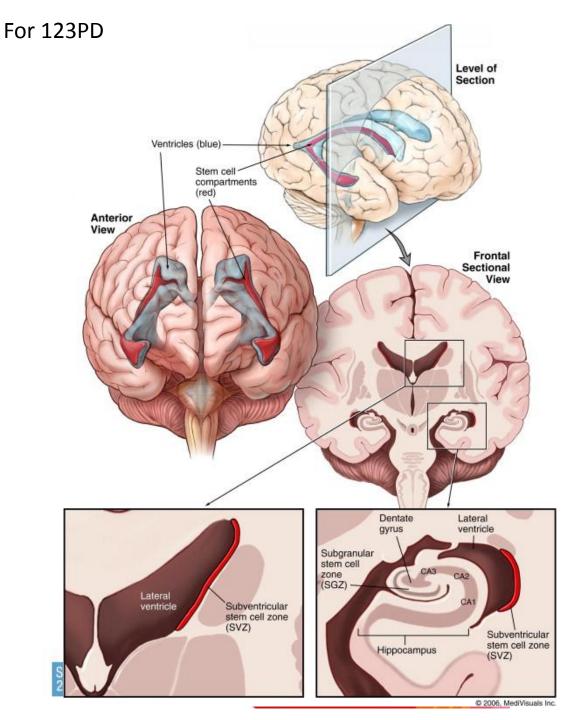
- A pt who received WBRT showed diffuse decrease of rCBF as above, whose MMSE also were worsened from 30 to 23/30.
- WBRT may have a risk of diffuse decrease of CBF and NCF impairment.



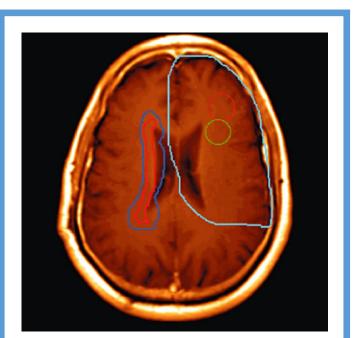
122PD: Stereotactic statistical analysis of brain perfusion SPECT using 3-D stereotactic surface projections to estimate brain function of the patients harboring brain metastases before and after radiotherapy. Mariya Y, et al. Hirosaki, Japan

- We know a lot about WBRT, but relatively little information about partial brain radiotherapy.
- There was only a single case of partial brain radiotherapy included in this study.
- We would be interested in the distribution of rCBF after PBRT and their NCF results as well.





Subventricular stem cell zone. Igor J, et al. Int J of Radiat Oncol Biol Physics, 68:324, 2007



Neural stem cell organ at risk. Marsh JC, et al. J Med Imaging Radiat Oncol, 55:442, 2011 123PD: A study of feasibility of sparing neural stem cells (NSC) in brain tumors using intensity modulated radiotherapy (IMRT). Roy, M. Mumbai, India.

- Neural stem cells were spared by IMRT as areas encompassing 0.5cm around the lateral ventricles of the brain.
- 22 brain tumor patients were included: GBM 14, astrocytoma 3, gioma 3, ependymoma 1, pituitary adenoma 1.



123PD: A study of feasibility of sparing neural stem cells (NSC) in brain tumors u sing intensity modulated radiotherapy (IMRT). Roy, M. Mumbai, India.

- They analysed survival as a whole, that does not mean anything as the pts population is a mixture of various histologies.
- How they evaluated NCF is not shown.



124PD: Strategic planning and teamwork key to immediate minimal side effects and early good outcome of stereotactic radiosurgery and radiotherapy in patients with vestibular schwannomas; the National Cancer Institute Putrajaya Experience. M.A. Mohamed Ali, et al. Putrajaya, Malaysia.

- SRS/SRT for 14 pts of vestibular schwannomas.
- 8 SRS, mGTV=1.15 cm<sup>3</sup>. 6 SRT, mGTV=4.04 cm<sup>3</sup>.
- No significant side effects other than grade 2 worsening of headache 6 months after irradiation.



18-21 DECEMBER

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