

Sunday, November 1, 2009

OUWSOM Researchers Publish an Article in Nuclear Medicine Communications

A group of researchers from the **Oakland University William Beaumont School of Medicine**, including Bingfeng Tang of the Beaumont Department of Nuclear Medicine and Vonda Douglas-Nikitin of the Beaumont Department of Pathology, published a report in the November 2009 issue of the journal **Nuclear Medicine Communications** (Volume 30, Pages 838-840) about **Exceptionally Low Metabolic Activity in Aggressive Peripheral T-cell Lymphoma**. Their abstract is reproduced below.

Purpose: To investigate metabolic behavior of aggressive **peripheral T-cell (PTC) lymphoma** compared with other aggressive T-cell (OTC) **nonHodgkin's lymphomas** (NHLs) and the various grades (1, 2, 3) of **follicular B-cell (FC) NHL** as a reference cell type for indolent to aggressive behavior.

Materials and methods: Pretreatment **2-deoxy-24[F-18] fluoro-d-glucose positron emission tomography-computed tomography** scans of 33 patients with pathologic diagnosis of aggressive T-cell NHL and FC (FC1 = 6, FC2 = 8, FC3 = 9, PTC = 6, OTC = 4) were analyzed. The maximal standardized uptake value (SUV) was measured over biopsy region (BxSUV) and the highest tumor activity of the body (BmSUV).

Results: There were significant differences in both BxSUV ($P=0.036$) and BmSUV ($P=0.026$) among these five groups with significantly lower metabolic activity in PTC compared with other aggressive NHL (FC3, OTC). BmSUV in PTC was significantly lower than that in OTC (8.2 ± 2.5 vs. 22.3 ± 7.0 , $P = 0.029$) and was similar to that of FC1 (9.4 ± 1.9) and FC2 (9.7 ± 1.4) but lower than that of FC3 (14.6 ± 2.7). Similar findings were noted in BxSUV between PTC and OTC (6.7 ± 2.5 vs. 20.4 ± 7.2 , $P = 0.035$).

Conclusion: Although 2-deoxy-2[F-18]fluoro-d-glucose positron emission tomography has been found to reflect metabolic activity for the aggressiveness of B-cell NHL, PTC has an exceptionally low metabolic activity, similar to that of low-grade B-cell FC1 and FC2.

SUMMARY

A group of researchers from the Oakland University William Beaumont School of Medicine published a report in the November 2009 issue of the journal Nuclear Medicine Communications about Exceptionally Low Metabolic Activity in Aggressive Peripheral T-cell Lymphoma.

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