



Case of the Quarter: Q4 2016

I: Clinical History

69 yo male with no significant past medical history presented with a lump on his right neck. CT scan of the neck showed a 3.3 x 2.6 x 3.9 cm mass in the right level II nodal station, medial to the right sternocleidomastoid muscle and inferior to the right parotid gland with a central necrotic area measuring 1.8 x 1.8 x 2.2 cm. The mass abutted and displaced the right carotid artery and jugular vein posteriorly.

II: Gross Findings

Excisional biopsy of the lymph node measured 2.7 x 1.5 x 0.7 cm and demonstrated a tan homogeneous cut surface.

III: Microscopic Findings:

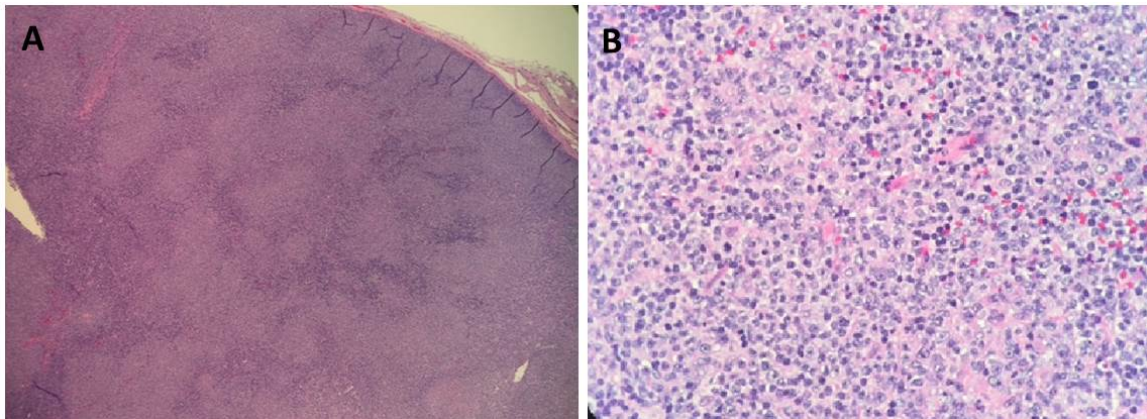
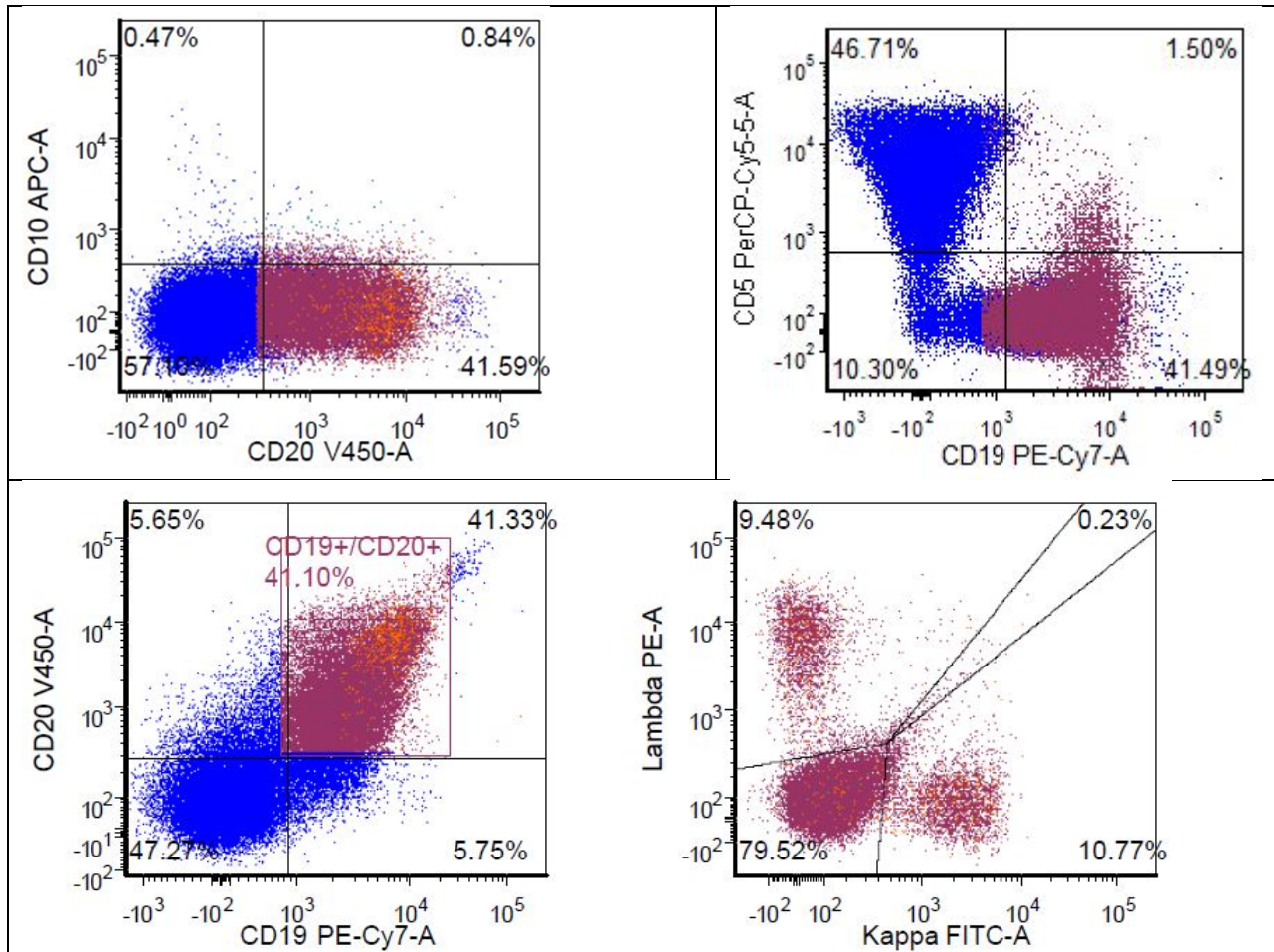


Figure 1. Histology. A. 40X. B. 400X.

IV: Flow cytometry



V: Cytogenetics/Molecular Studies (optional)

Karyotype analysis showed male karyotype with highly complex abnormalities, including:

- 1) t(3;14)(q27;q32)
- 2) der(6)t(1;6)(q21;p10)
- 3) t(14;22)(q32;q11)
- 4) i(17)(q10)

In addition, other abnormalities, including +X, add(2)(p25), add(4)(q35), del(4)(q31), +5, +6, +8, +12, +13, add(13)(p10), +14, -16, +21 were also observed.

FISH studies shows:

FISH studies	Result (%)
14q32 (IGH)	POSITIVE (20%)
t(3q27) (BCL6)	POSITIVE (30%)
18q21 (MALT1)	NEGATIVE
6q23 (c-MYB)	POSITIVE (20%)

Additional FISH analysis reveals trisomy 8 in 28% of cells. No translocation t(14;18) or t(8;16).