

Supplementary Table 1: Immunophenotypical features used to distinguish various subtypes of dendritic cells and macrophages.

Characteristics	LC	IDC	FDC	PDC	Macrophages
Cellular Origins	Hematopoietic Myeloid Stem Cell	Hematopoietic Myeloid Stem Cell	Mesenchymal Stem Cell	Hematopoietic Myeloid Stem Cell	Hematopoietic Myeloid Stem Cell
Immunophenotypic Markers					
MHC-Class II	Cytoplasmic +	Surface +	--	+	+
CD11c	+	+	--	+	+
CD14	--	--	--	--	++
CD3	--	--	--	--	--
CD19	--	--	--	--	--
CD56	--	--	--	--	--
Glycophorin A	--	--	--	--	--
CD1a	++	--	--	--	--
CD21	--	--	++	--	--
CD23	--	--	++	--	--
CD35	--	--	++	--	--
CD68	+/-	+/-	-/+	+	++
CD163	--	--	--	--	++
CD52	--	--	--	--	+
Lysozyme	+/-	--	--	--	++
Langerin	++	--	--	--	--
S100	++	++	+/-	--	+/-
CD123	--	--	--	++	--
CD303 (BDCA2)	--	--	--	++	--
CD304 (BDCA4)	--	--	--	++	--

Note: LC, Langerhans cell; IDC, interdigitating dendritic cell; FDC, follicular dendritic cell; PDC, plasmacytoid dendritic cell. Expression is semi-quantitatively graded as follows: negative (--); occasionally positive (-/+); weakly positive (+/-); positive (+); and strongly positive (++).

Source: Swerdlow *et al*, 2008; Merad *et al*, 2013; Pileri *et al*, 2002.

Supplementary Table 2: Risk factors between patients who received neo- or adjuvant therapy versus observation

	Follicular Dendritic Cell Sarcoma			Histiocytic Sarcoma		
	No Therapy (n = 12)	Adjuvant or neo-adjuvant therapy (n = 11)	P-value	No Therapy (n = 4)	Adjuvant or neo-adjuvant therapy (n = 2)	P-value
Age, years	38.7 (28.7 – 83)	53.1 (31.6 – 71.9)	0.09	45.1 (23.6 – 57.9)	42.6 (27.9 – 57.3)	1
Tumor size (% of patients)			1			0.4
0 – 5 cm	3 (25)	4 (36)		3 (75)	-	
5.1 – 10 cm	5 (42)	4 (36)		1 (25)	-	
10.1 – 15 cm	2 (17)	1 (9)		-	1 (50)*	
15.1 – 20 cm	1 (8)	-		-	-	
Gender			0.02			1
Female	5 (42)	10 (91)		2 (50)	1 (50)	
Male	7 (58)	1 (9)		2 (50)	1 (50)	
KPS			0.30			NA
< 80%	2 (17)	4 (36)		4 (100)	2 (100)	
90 – 100%	7 (58)	3 (27)		-	-	
Location			0.29			0.6
Head and neck	3 (25)	5 (45)		-	1 (50)	
Thoracic/chest wall	2 (17)	4 (36)		1 (25)	-	
Abdomen/Pelvis	6 (50)	2 (18)		3 (75)	1 (50)	
Paraspinal/CNS/Other	1 (8)	-		-	-	
Margin			0.09			NA
Negative	8 (67)	11 (100)		4 (100)	2 (100)	
Positive	2 (17)	-		-	-	
Unknown	2 (17)	-		-	-	

* Size was unknown for the other patient.