SUPPLEMENTARY APPENDIX

Highly sensitive methods are required to detect mutations in histiocytoses

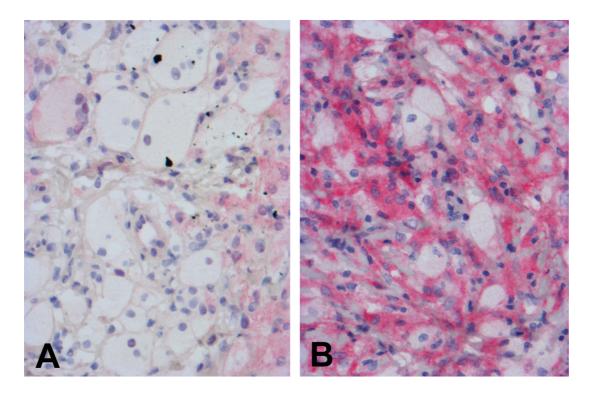
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Supplementary figure 1



Legends:

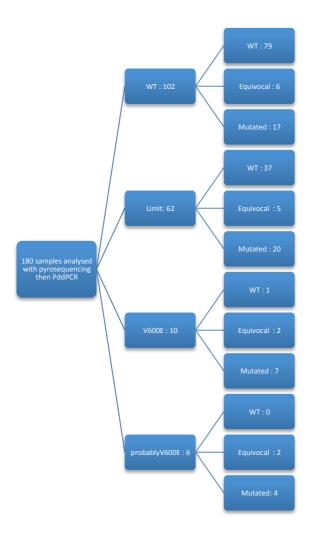
VE1 staining with only few (A) or abundant (B) positive histiocytes.

Characteristics of the analyzed patients

Sex	150 females, 270 males and 54 undetermined		
Median age at diagnosis, range	54.1 (18.03-90.67)		
Diagno	,		
ECD	236		
LCH	152		
Mixed histiocytosis (ECD+LCH)	44		
Unclassified	42		
Localiz	ation		
central nervous system	16		
skin and mucous membrane	114		
lung and pleura	43		
kidney and peri renal	107		
bone	161		
others	108		
undertermined	28		
Distribution of 287 patients regarding their mutational	status- Within L Group H (without non informative) :		
V600E pyrosequençage	114		
V600E droplet	63		
WT	85		
Others mutations : MAP2K1, NRAS, KRAS, PTPN11, BRAF de	eletion 25		

Samples which turned out to be positive with the highly sensitive pddPCR: table and flowshart

Combined analysis Pyrosequencing and PddPCR								
		PddPCR results						
		WT	V600E	Equivoval	Total	% sauvés par catégorie		
	WT	79	17	6	102	16,67%		
Pyrosequencing	WTlimit	37	20	5	62	32,26%		
results	Probably V600E	O	4	2	6	66,67%		
	V600E	1	7	2	10	10,00%		
		117	48	15	180			



Legends:

The saved correspond to the green boxes. These are those found mutated in pddPCR while they was not mutated in pyrosequencing. In our figures we saved 41 out of 173 (23.69%).

Global algorithm of the study:

