

## Supplementary Table 2: Performance of LAP design for the different types of aberrancies

LAP	Phase	Institute 1		Institute 2		Institute 3		Institute 4		Institute 5	
		Missed	%	Missed	%	Missed	%	Missed	%	Missed	%
Cross-lineage antigen expression	1	1/14	7.1	1/11	9.1	1/14	7.1	3/13	23	2/8	25
	2	0/28	<b>0</b>	2/28	<b>7.1</b>	8/28	<b>29</b>	2/27	<b>7.4</b>	7/22	<b>32</b>
Asynchronous antigen expression	1	1/32	3.1	16/28	57	20/32	63	21/31	68	11/19	58
	2	0/42	<b>0</b>	20/42	<b>48</b>	14/42	<b>33</b>	18/40	<b>45</b>	10/32	<b>31</b>
Antigen over-expression	1	0/1	0	0/0		1/1	100	1/1	100	0/1	0
	2	2/8	<b>25</b>	2/8	<b>25</b>	6/8	<b>75</b>	7/8	<b>88</b>	3/4	<b>75</b>
LAPs without immature markers	1	1/8	2.5	0/7	0	5/8	63	5/8	63	2/2	100
	2	0/10	<b>0</b>	2/10	<b>20</b>	4/10	<b>40</b>	4/8	<b>50</b>	1/7	<b>14</b>

Shown are the percentages of missed LAPS in the two phases of the study (phase 1: learning phase; phase 2: test phase). In bold are the percentages in the most important part of the study: the test phase. In most cases there is an improvement from phase 1 to phase 2.

Improvements were significant for asynchronous expression:  $p=0.025$  (all centers) and  $p=0.017$  for centers 2-5.