

**Table S2:** type of infection (bacterial overgrowth, superficial pyoderma, deep pyoderma and/or *Malassezia* dermatitis), selection of systemic antibacterials (empirical or based on culture and susceptibility test) and number of days between initial examination and re-examination [days (time 0-time1)] for the 20 dogs with atopic dermatitis that were included in the prospective study (group A) and the 19 dogs with atopic dermatitis that were included in the retrospective study (group B).

Dog #	Type of infection	Selection of antibacterial	Days (time 0-time 1)
<i>Prospective study (group A)</i>			
1	SP + MD	C-S	47
2	MD		26
3	MD		34
4	SP + MD	E	32
5	MD		39
6	SP + MD	C-S	35
7	BO + MD	E	34
8	MD		30
9	MD		30
10	SP + MD	E	28
11	BO + MD	E	39
12	SP + MD	E	27
13	DP + MD	C-S	28
14	SP + MD	C-S	28
15	BO + MD	E	28
16	BO + MD	E	38
17	BO + MD	E	28
18	MD		28
19	BO + MD	E	29
20	BO + MD	E	36
<i>Retrospective study (group B)</i>			
1	BO + MD	E	28
2	MD		28
3	MD		35
4	BO + MD	C-S	35
5	MD		42
6	DP	C-S	26
7	BO + MD	E	27
8	SP + MD	E	28
9	BO	E	27
10	BO + MD	E	35
11	SP	E	28
12	SP + MD	E	35
13	MD		27
14	SP	E	28
15	BO + MD	E	42
16	BO + MD	E	27
17	MD		35
18	SP + MD	E	36
19	SP + MD	E	21

\* Abbreviations: BO: bacterial overgrowth; DP: deep pyoderma; MD: *Malassezia* dermatitis; SP: superficial pyoderma.