

## Appendix 2.

### Brachycephalic Obstructive Airway Syndrome (BOAS) grading based on clinical examination (Lilja-Maula et al. 2017, modified from Liu et al. 2015)

	BOAS grade <sup>a</sup>			
	BOAS-		BOAS+	
	0	1 <sup>b</sup>	2 <sup>b</sup>	3
<b>Upper respiratory noise at rest<sup>c</sup></b> 0 = none 1 = mild 2 = moderate 3 = severe	0	0-1	1-2	2-3
<b>Upper respiratory noise after exercise<sup>c</sup></b> 0 = none 1 = mild 2 = moderate 3 = severe	0	1-2	1-2	2-3
<b>Respiratory type at rest</b> 0 = normal 1 = use of accessory respiratory muscles <sup>d</sup>	0	0	0-1	1
<b>Resting dyspnoea or cyanosis</b> 0 = none 1 = present	0	0	0	0-1

<sup>a</sup>BOAS grade: 0 = no; 1 = mild, 2 = moderate, 3 = severe signs.

<sup>b</sup>Upgrading to next BOAS grade is made in case the dog has all signs in upper range.

<sup>c</sup>Audible upper respiratory noise evaluated without auscultation.

<sup>d</sup>Accessory respiratory muscle use evident by nasal flaring and increased chest and abdominal wall movements.