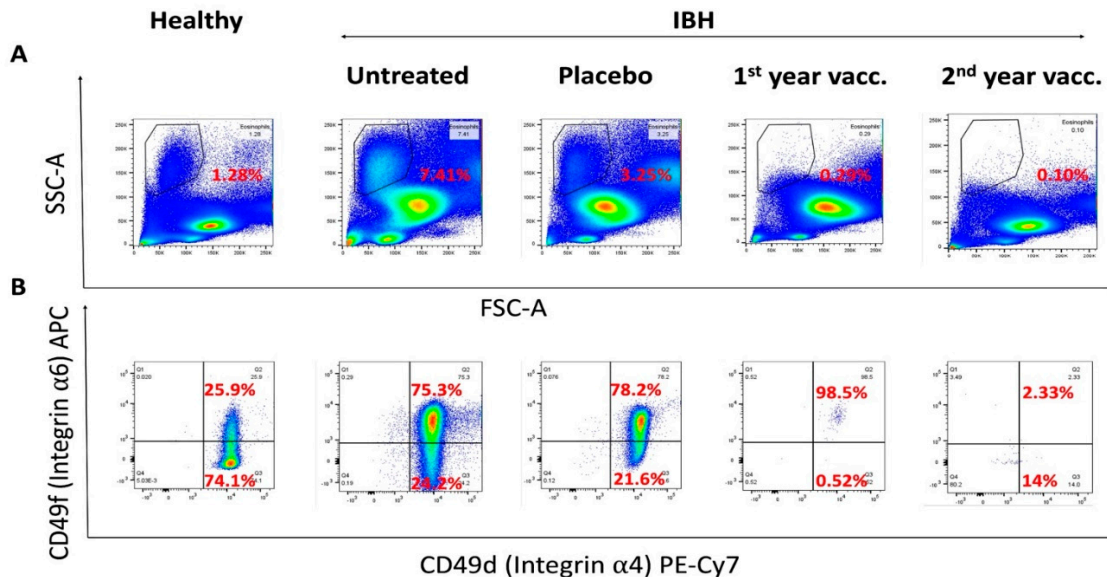


## Supplementary Material

### Supplementary Figures and Tables

#### S1.1. Supplementary Figure S1: *Eosinophil identification and phenotyping.*



Healthy unaffected, IBH untreated, IBH placebo-treated, IBH 1<sup>st</sup> and 2<sup>nd</sup> year eIL-5-CMV<sub>TT</sub> vaccinated horses shown in representative flow cytometric gating on eosinophils subpopulations. **(A)** Granulocyte-enriched PBMCs shown in FSC-A/SSC-A to gate on eosinophil granulocytes. Percentage of eosinophil granulocytes marked in red. **(B)** Eosinophil granulocytes shown for CD49f and CD49d expression levels pre-gated on FSC-W/FSC-H for single cells and AmCyan/PacBlue for eosinophilic autofluorescence. Percentage of double positive CD49d<sup>+</sup>CD49f<sup>+</sup> and single positive CD49d<sup>+</sup>CD49f<sup>-</sup> eosinophils respectively marked in red.

**S1.2. Supplementary Table S1: *breed, sex, number and age of horses included in this study***

Groups	Icelandics		Non-Icelandics*	
	sex mare / gelding / stallion	age Mean (SD)	sex mare / gelding / stallion	age Mean (SD)
<b>Healthy</b>	3 / 10 / 2	15.47 (5.62)	6 / 6 / 0	18.42 (7.6)
<b>Untreated</b>	23 / 27 / 1	13.92 (4.79)	8 / 7 / 0	12.87 (6.01)
<b>Placebo</b>	9 / 14 / 0	16.52 (4.69)	3 / 4 / 0	12.43 (5.86)
<b>1<sup>st</sup> year vacc.</b>	8 / 15 / 0	13.96 (3.95)	3 / 4 / 0	14.14 (3.72)
<b>2<sup>nd</sup> year vacc.</b>	5 / 4 / 0	15.67 (5.32)	2 / 2 / 0	13.5 (6.45)
<b>Total</b>	48 / 70 / 3	14.74 (4.89)	22 / 23 / 0	14.53 (6.42)

\* Breed (mare/gelding), Arabian and partbred (1/4), Canadian horse (0/2), Freiburger (1/2), Haflinger (3/1), Hanoverian (3/0), Painthorse (1/1), PRE (3/3), Swiss warmblood (3/2), Welsh and partbred (3/0), Pony breeds (3/4), Other breeds (4/1)

Table showing study horses divided into Icelandic and Non-Icelandic horses presented by sex and age.