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| **Supplemental Table 1**. Baseline characteristics of enrolled dogs |   |   |   |   |   |
| **Disease status** | **CIBDAI** | **Histotology** | **Age (yr)** | **Breed** | **Sex** | **Neuter status** | **Diet** | **Time since last antibiotic** |
| **IBD\_1** | severe | moderate-severe | 8 | Australian Shepherd | M | Neutered | IVD duck and potato | > 6 weeks |
| **IBD\_2** | moderate | mild | 3 | English Bulldog | F | Intact | IVD fish and potato | > 6 weeks |
| **IBD\_3** | moderate | moderate-severe | 5 | Mixed breed | F | Neutered | IVD duck and potato | > 6 weeks |
| **IBD\_4** | moderate | moderate-severe | 11 | Mixed breed | F | Neutered | IVD duck and potato | > 6 weeks |
| **IBD\_5** | severe | mild | 8 | Jack Russel Terrier | M | Neutered | Hills i/d\*# | > 3 weeks |
| **IBD\_6** | severe | moderate-severe | 10 | Labrador Retriever | F | Neutered | IVD duck and potato | > 2 weeks |
| **IBD\_7** | moderate | moderate-severe | 12 | Gordon Setter | F | Neutered | Iams low- residue | > 6 weeks |
| **IBD\_8** | moderate | mild | 7 | Keeshond | M | Intact | Hills d/d | > 6 weeks |
| **IBD\_9** | severe | moderate-severe | 8 | German Shorthair Pointer | F | Neutered | IVD fish and potato | > 3 weeks |
| **IBD\_10** | moderate | moderate-severe | 7 | Keeshond | M | Intact | Royal Canin rabbit | > 3 weeks |
| **IBD\_11** | moderate | mild | 6 | Shih Tzu | M | Neutered | Iams low-residue\*# | > 3 weeks |
| **IBD\_12** | severe | mild | 8 | Labrador Retriever | M | Neutered | Purina lamb and rice | > 6 weeks |
| **IBD\_13** | severe | mild | 4 | Beagle | F | Neutered | Iams low-residue\*# | > 3 weeks |
| **IBD\_14** | severe | mild | 6 | German Shepherd | F | Neutered | Hills d/d | > 6 weeks |
| **Control\_1** | healthy | normal | 6 | Mixed breed | F | Neutered | Teklad laboratory diet\* | NA |
| **Control\_2** | healthy | normal | 4 | Mixed breed | F | Neutered | Teklad laboratory diet\* | NA |
| **Control\_3** | healthy | normal | 3 | Mixed breed | F | Neutered | Teklad laboratory diet\* | NA |
| **Control\_4** | healthy | normal | 6 | Mixed breed | M | Neutered | Teklad laboratory diet\* | NA |
| **Control\_5** | healthy | normal | 3 | Mixed breed | M | Neutered | Teklad laboratory diet\* | NA |
| **Control\_6** | healthy | normal | 4 | Mixed breed | M | Neutered | Teklad laboratory diet\* | NA |
| \*Not an antigen-restricted diet; # previously failed one or more dietary trials with an antigen-restricted diet |
| IBD = inflammatory bowel disease; NA = not applicable; CIBDAI = canine inflammatory bowel disease activity index |  |
| NA = not applicaple |  |  |  |  |  |  |  |