

# Innovative Pet Lab Clinical Trial Summary



**feline**  
ESSENTIAL

# Study Parameters:

Product Name(s)	Feline Essentials: Gut Restore Kit (B12, CATalyst, OXY-CAT, Complete Cat Probiotics) Innovative Pet Lab: Inflammation & Immunity PLUS Leaky Gut
Sponsors Name	Two Crazy Cat Ladies / Feline Essential
Funding Organization	Two Crazy Cat Ladies & Innovative Pet Lab
Principal Investigator	Dr. Katie Woodley
Number of Subjects	30 cats / 15 FINAL
Study Design & Duration of Subject Participation	Pre test for baseline and post test 3 months after treatments
Primary Objective	To demonstrate the efficacy of Feline Essential Gut Restore product line through direct measurement of feline gastrointestinal markers
Subject Selection Criteria	Current diets: mostly dry kibble, M/F mix, spayed/neutered mix, age ranges: varied, weight range: varied, breed: varied, not on any current medication

# Study High Lights

57%

of cats had  
improved Zonulin  
(Leaky Gut)

100%

of owners who reported  
**vomiting** as an issue at  
the beginning,  
then reported  
improvement by the  
end of the study.

Participants gave the  
Feline Gut Restore Kit  
an NPS score of

94%

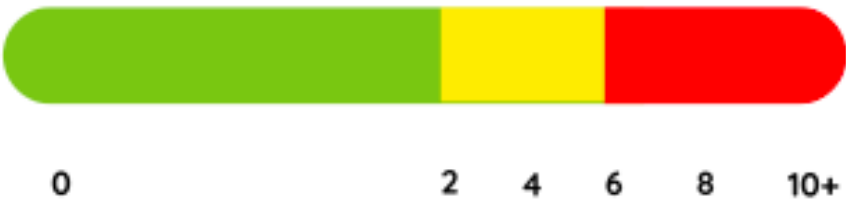
Anecdotal Data:

Participants were given a survey at the beginning of the trial, at the midpoint, and a final survey at the end (3 months). This is the data derived from the survey.

Symptom / Issues	Pre Survey Report: # That Reported Issues	Post Survey Report: # That Reported Symptom Improvement	% Improvement
Vomiting	11	11	100%
Diarrhea	7	2	29%
Constipation	5	3	60%
Appetite	3	3	100%
Flautlence	5	3	60%
Excessive Licking	6	3	50%
Hair / Skin / Coat	7	4	57%
Behavior Issues	6	4	66%

# Test Results: Zonulin

## Zonulin - Cats



Normal: <2.0 ug/g

Borderline: 2.0-6.0 ug/g

High: >6.0 ug/g

- Zonulin is a protein that acts like a glue to keep intestinal cells bound together. Intestinal cells are supposed to be lined up and connected to each other.
- When Zonulin is high it means the cells aren't tightly together. Leaky gut happens gradually over time. Zonulin can help identify the level of leaky gut.

Pre Test	Post Test
Zonulin	Zonulin
5.5	0.6199
21.95	
9.27	
2.84	0.4526
1.7	0.6199
6.99	
34.41	
2.69	0.5292
8.28	
3.59	
35.46	97
1.52	
1.36	0.6878
1.41	
11.63	3.371
7.79	8.14
0.09	0.1648
0.84	0.4699
0.57	3.298
0.04	
2.61	0.2099
0.29	0.4125
6.084	0.6199
3.957	
9.137	
2.4325	
2.158	
8.13	
6.993	
41.87	
34.32	
9.71	0.8275

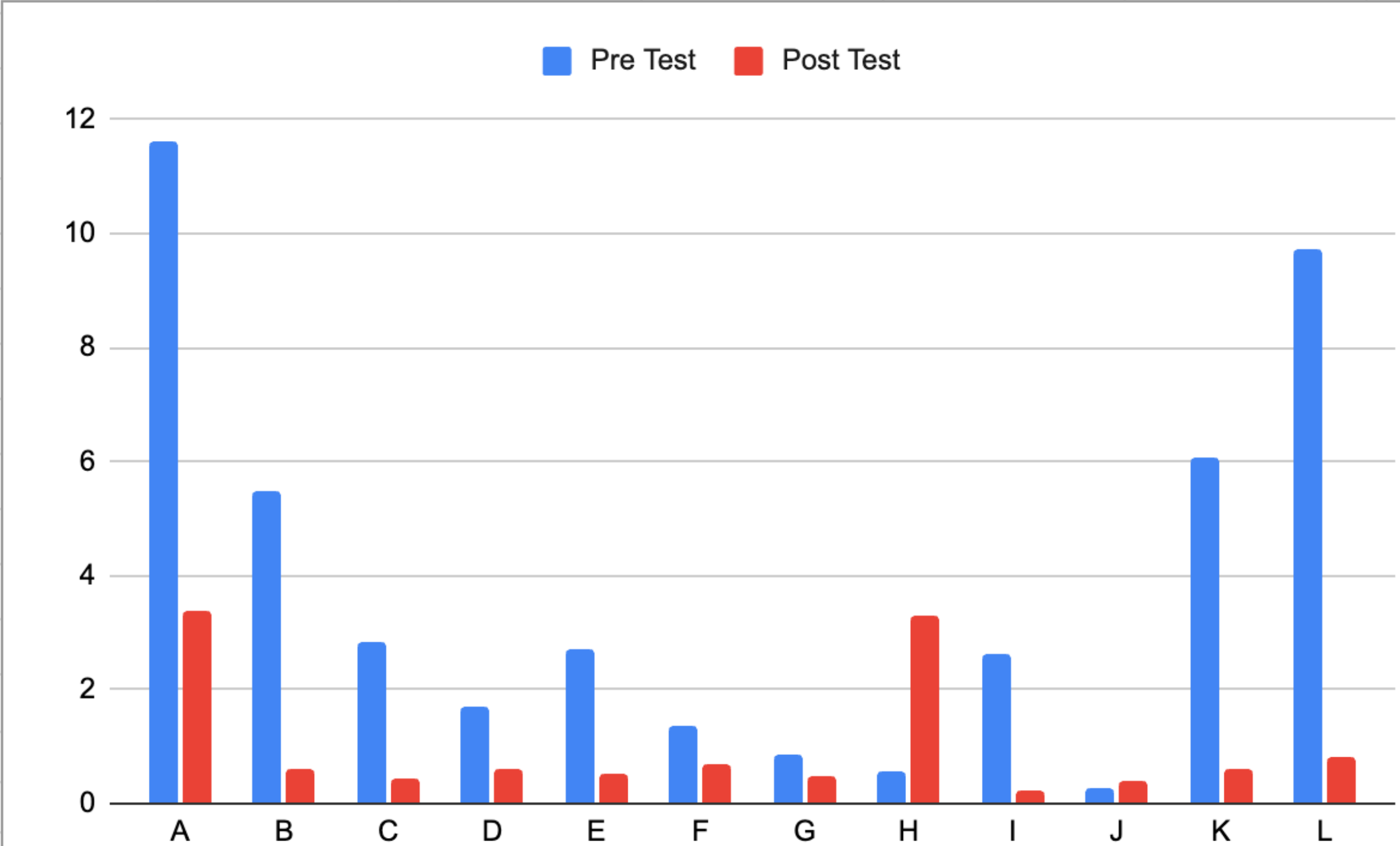


8 out of 14 saw improvement in the strength of their gut lining

57%

# Graph: Zonulin

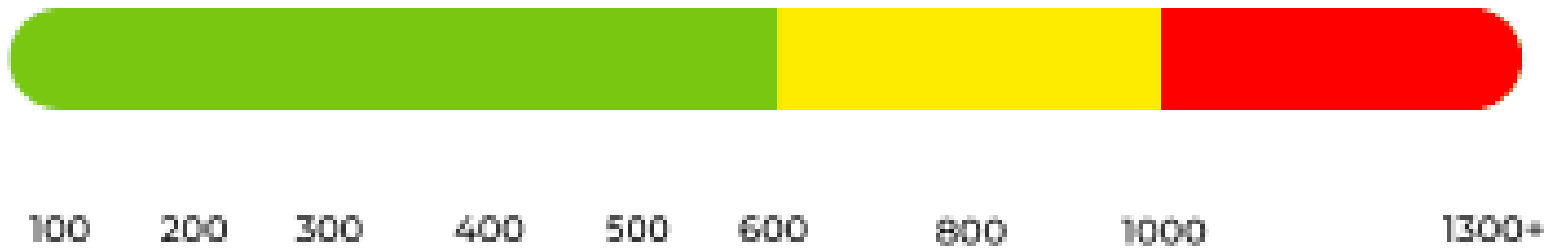
Cat	Pre Test	Post Test
A	11.63	3.371
B	5.5	0.6199
C	2.84	0.4526
D	1.7	0.6199
E	2.69	0.5292
F	1.36	0.6878
G	0.84	0.4699
H	0.57	3.298
I	2.61	0.2099
J	0.29	0.4125
K	6.084	0.6199
L	9.71	0.8275
M	7.79	8.14
N	0.09	0.1648
O	35.46	97





# Test Results: Antigladin IgA

## Antigladin IgA - Cats



Normal: <600 ug/g  
Borderline: 600-1000 ug/g – Indicates a moderate reaction  
High: >1000 ug/g – Highly reactive to gluten

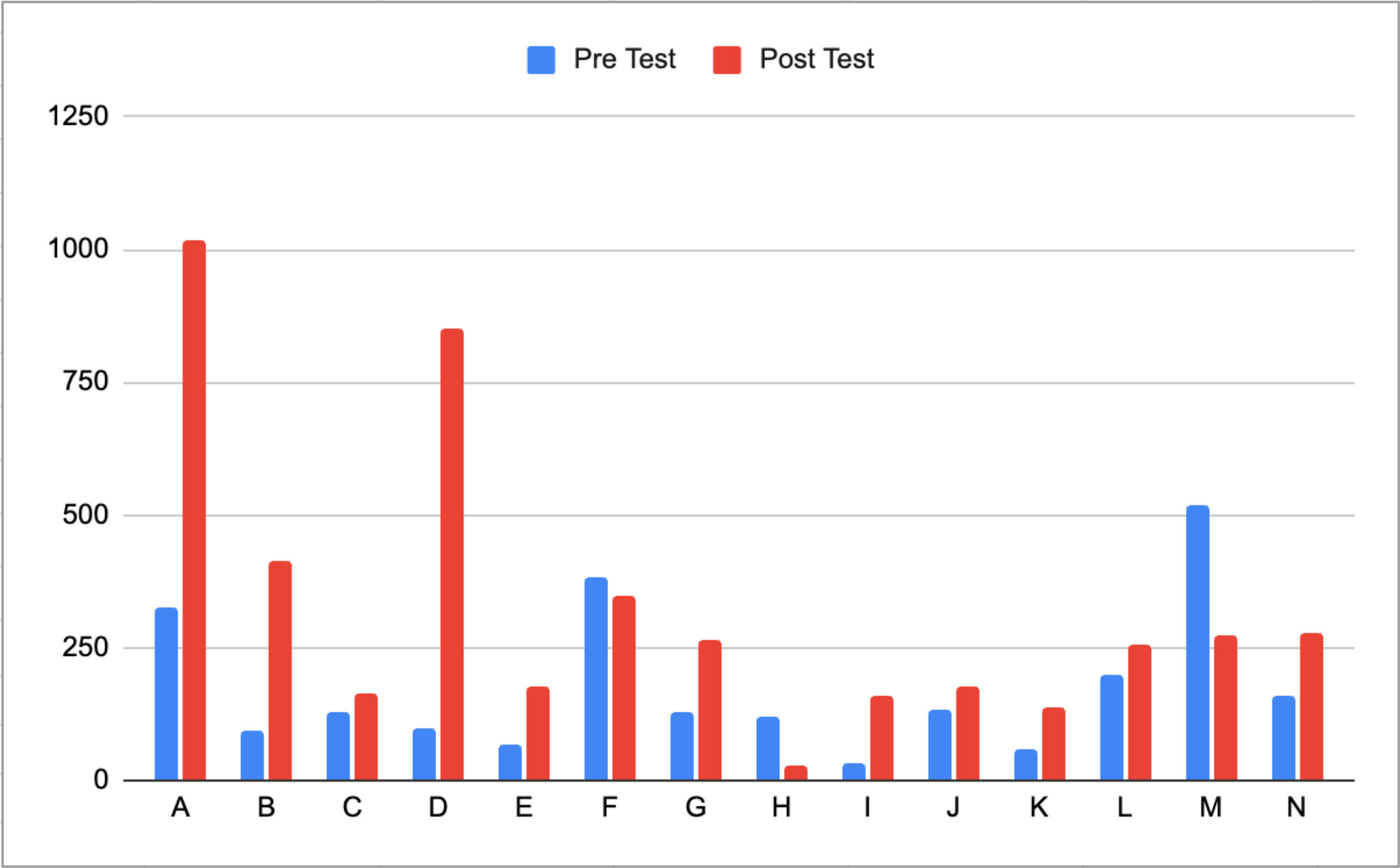
- Antigladin IgA identifies an immune response to gluten and can let you know if your pet is eating gluten. Gliadin is a component of gluten.
- Your pet can only have a reaction to gluten if they are eating gluten. A reaction to gluten may be a contributing factor to Leaky Gut, skin conditions, or other symptoms.

Pre Test	Post Test
Anti Gliadin	Anti Glaidin
327	1019
44	
241	
96	415
127	165
140	
91	
100	850
459	
73	
66	178
83	
381	348
145	
128	265
121	27
32	158
84	NR
132	179
185	
61	137
199	255
520	275
189	
268	
76	
40	
98	
153	
82	
65	
159	276

12 of 14  
86%  
maintained their  
Antigladian IgA

# Graph: Antigladin IgA

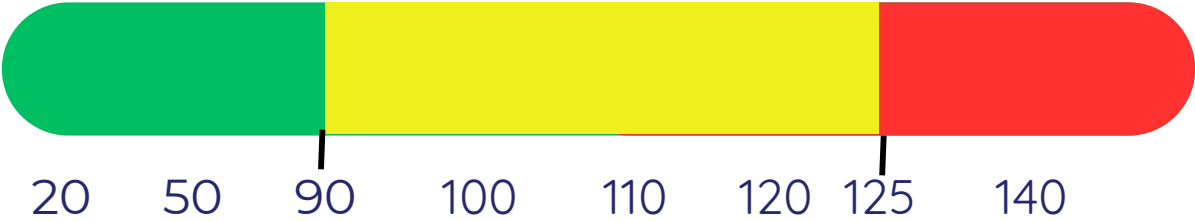
Cat	Pre Test	Post Test
A	327	1019
B	96	415
C	127	165
D	100	850
E	66	178
F	381	348
G	128	265
H	121	27
I	32	158
J	132	179
K	61	137
L	199	255
M	520	275
N	159	276





# Test Results: Calprotectin

Calprotectin - Cats



Normal: <90 ug/g

Borderline: 90-125 ug/g

High: >125 ug/g

- Calprotectin is a sensitive marker of inflammation of the gut lining.

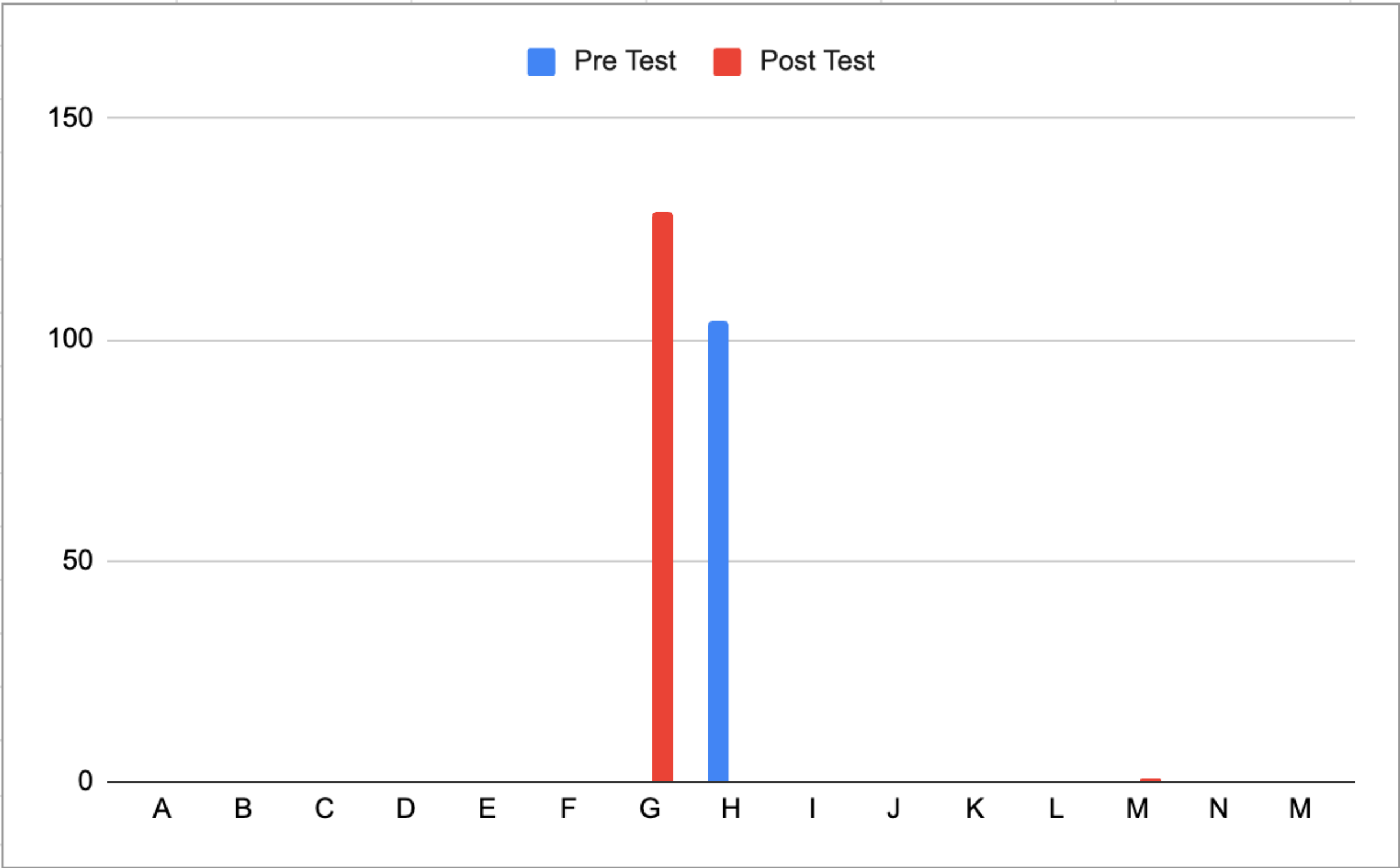
Pre Test	Post Test
Calpro	Calpro
0	0
0	
95.94	
0	0
0	0
0	
0	
0	0
0	
530.49	
0	0
0	
0	0
244	
0	129
104.4	0
0	0
0	0
0	0
0	
0	0
0	0.8488
0	0
0	
0	
0	
0	
0	
0	
0	
0	0



significant reduction  
of inflammation

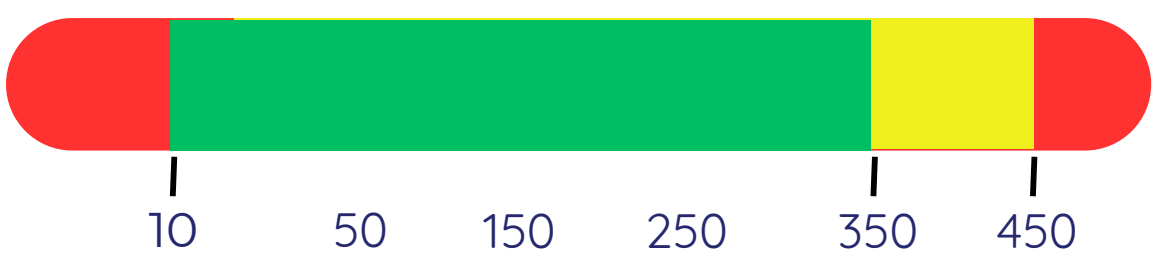
# Graph: Calprotectin

Cat	Pre Test	Post Test
A	0	0
B	0	0
C	0	0
D	0	0
E	0	0
F	0	0
G	0	129
H	104.4	0
I	0	0
J	0	0
K	0	0
L	0	0
M	0	0.8488
N	0	0
M	0	0



# Test Results: Secretory IgA

Secretory IgA - Cats



Normal: 10-350 ug/g

Low: <10 ug/g

Borderline: 350- 450 ug/g

High: >450 ug/g

- Secretory IgA is the first line of immune defense at the gut lining and an indicator of intestinal immune protection.
- Elevated levels may show an immune reaction to inflammation, parasites, or food sensitivities. Low levels of secretory IgA may identify an inability to have an immune response and high levels show that your pet is reacting to something.
- High levels will return to normal if what they are responding to goes away.
- Low levels of IgA have been associated with autoimmunity, allergies, and skin conditions.

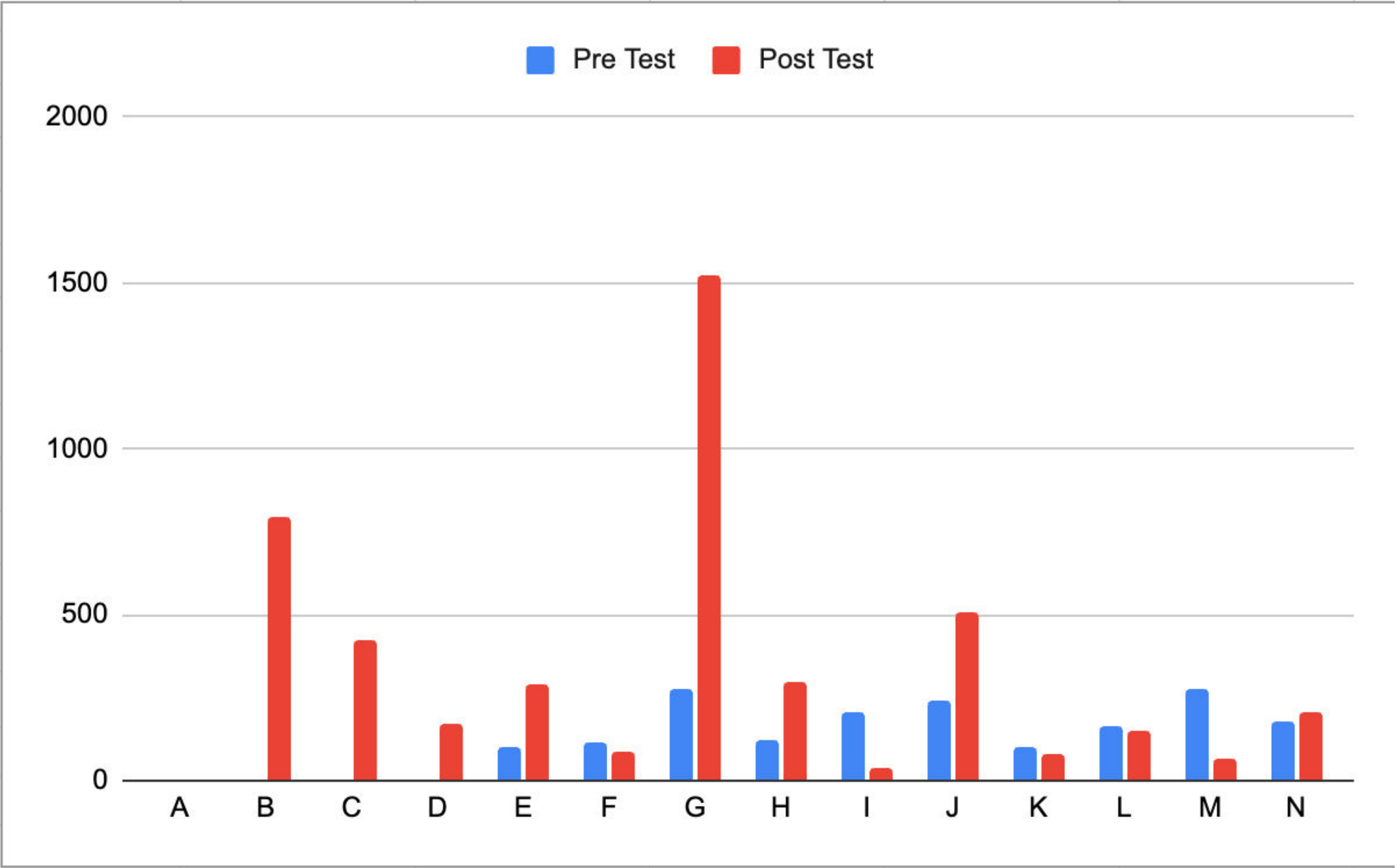
Pre Test	Post Test
SigA	SigA
0	0
269.3	
60.51	
0	792.4
0	424.5
0	
10.41	
0	173
230.1	
175	
104.2	288.2
184.7	
112.6	88.5
68.88	
278.5	1525
125	298.7
204	36.6
48.91	NR
241.6	509.9
0	
104.2	82.08
162.3	149.5
278.5	67.39
279.2	
199.3	
76.9	
60.51	
278.5	
222.9	
385.1	
385.1	
180.8	202.8

2 or 7%  
significant  
improvement in  
immune defense

8 or 57%  
maintained healthy  
immune defense

# Graph: Secretory IgA

Cat	Pre Test	Post Test
A	0	0
B	0	792.4
C	0	424.5
D	0	173
E	104.2	288.2
F	112.6	88.5
G	278.5	1525
H	125	298.7
I	204	36.6
J	241.6	509.9
K	104.2	82.08
L	162.3	149.5
M	278.5	67.39
N	180.8	202.8



Additional Slides and Data

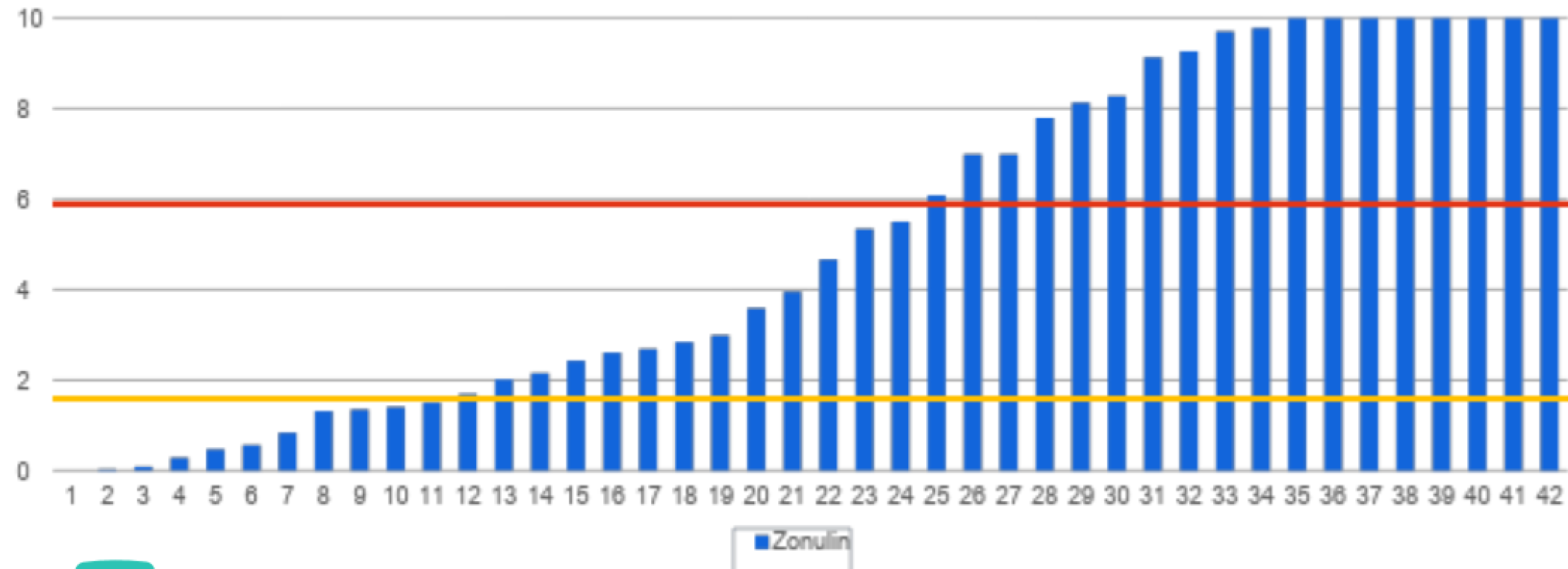
# Zonulin

Ranges:

Normal:  $< 2 \mu\text{g/g}$

Borderline:  $2 - 6 \mu\text{g/g}$

High:  $> 6 \mu\text{g/g}$





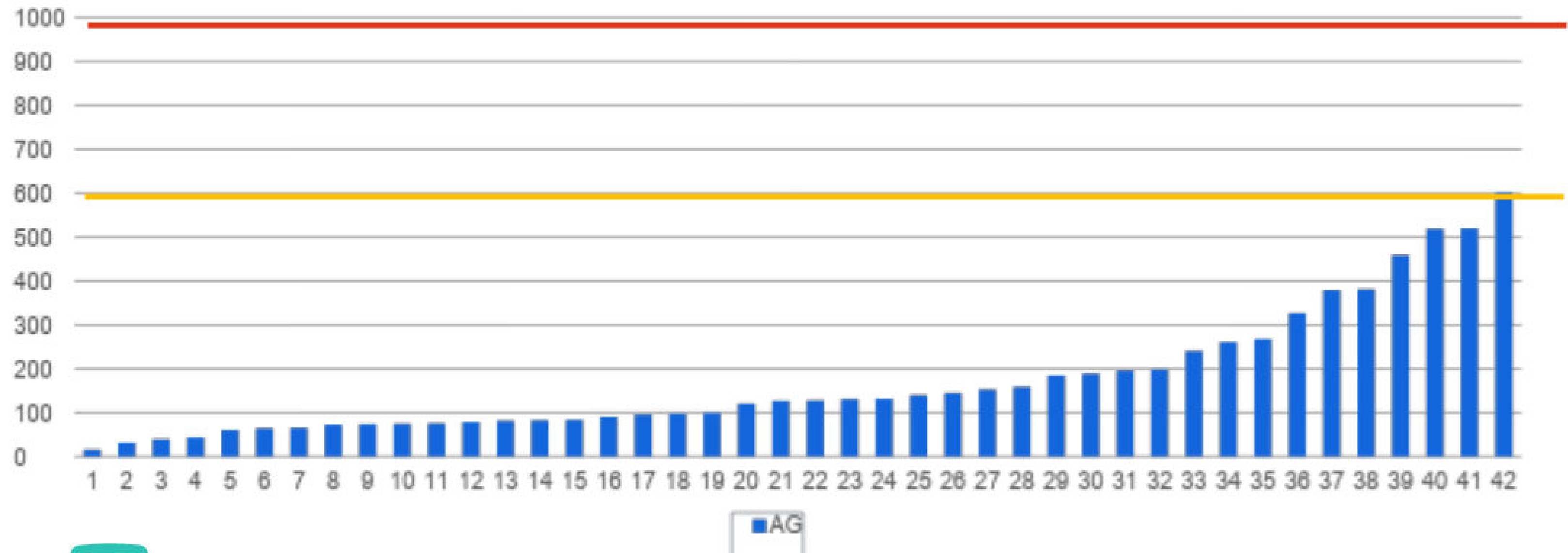
# Anti-Gliadin

Ranges:

Normal: < 600 µg/g

Borderline: 600-1000 µg/g

High: > 1000 µg/g



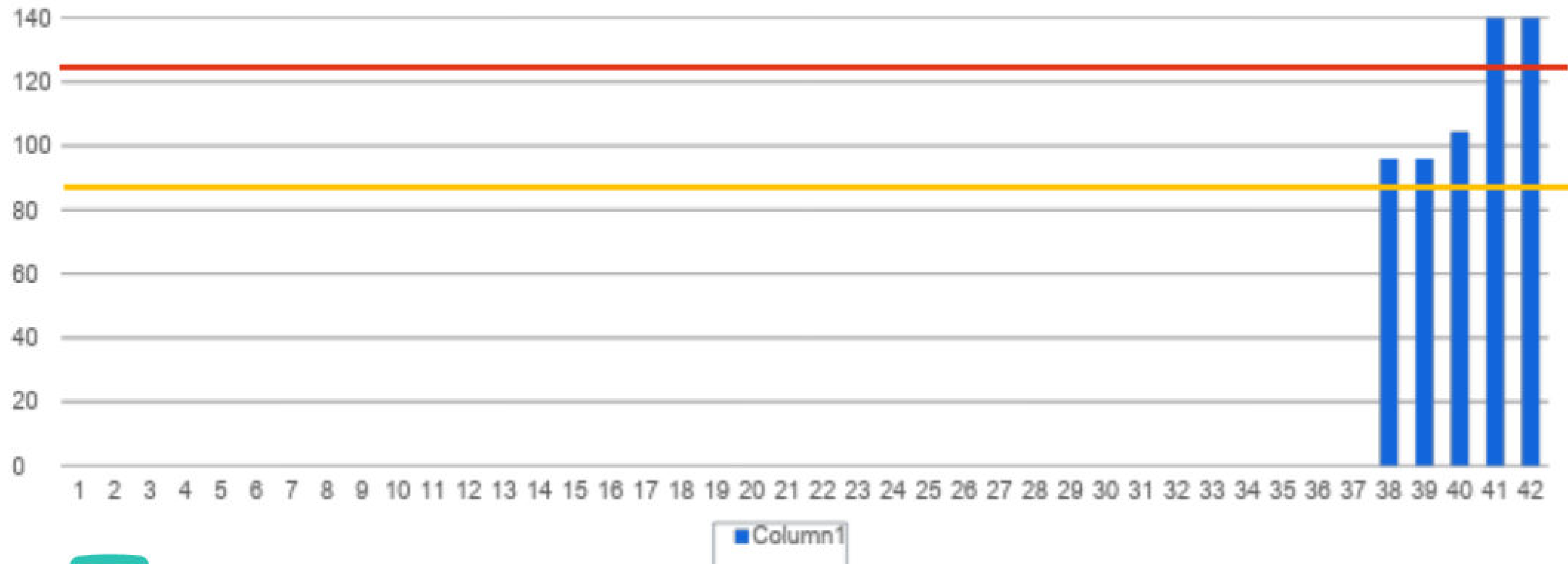
# Calprotectin

Ranges:

Normal: < 90 µg/g

Borderline: 90-125 µg/g

High: > 125 µg/g



# Secretory IgA

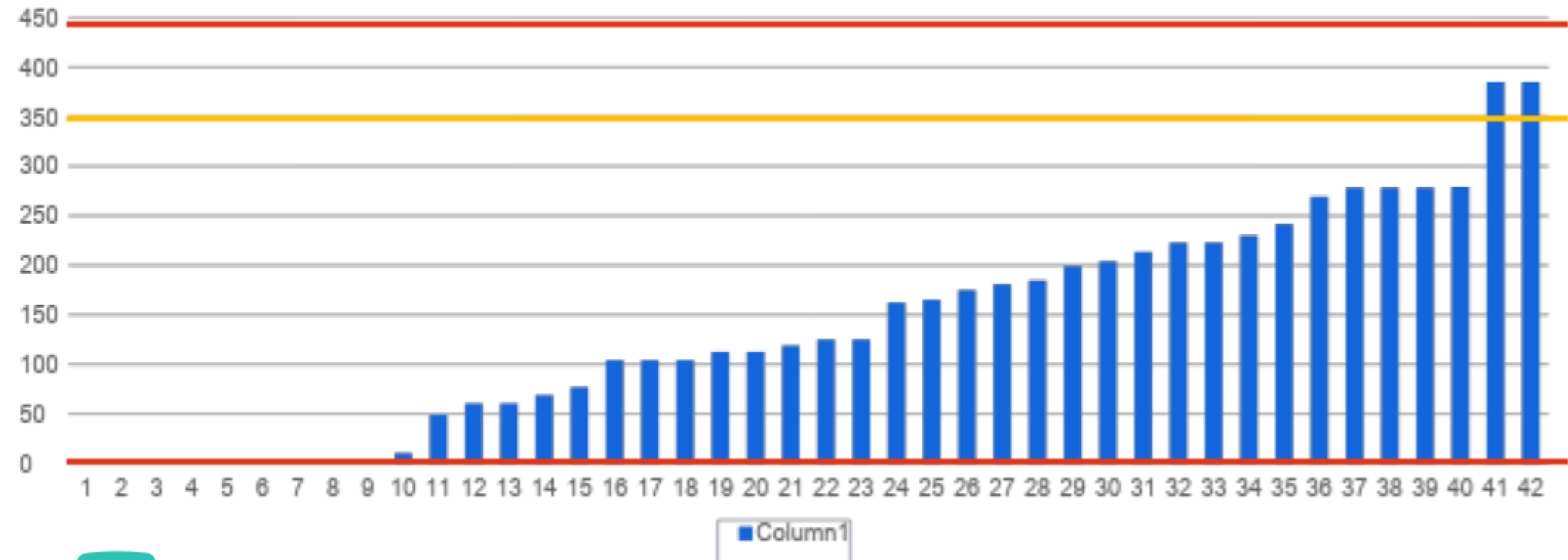
Ranges:

Low: < 10 µg/g

Normal: 10-350 µg/g

Borderline: 350-450 µg/g

High > 450 µg/g



# Table

	Zonulin	Antigliadin	Calprotectin	sIgA
Normal	29%	97%	88%	74%
Borderline	31%	3%	0	3%
High	40%	0	12%	0
Range	0-41.8	0-602	0-530	0-385

22% Low