

Severe Intestinal Blockage Caused by Intussusception in a 9 Months' Old Mix Breed Dog

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Figure A

On the 16th of October 2020, Sasha, a 9 months' mix breed dog was brought in to Dr. Nidal Hassan after being treated for excessive vomiting and bloody diarrhea for 3 weeks at another vet. Upon arrival, the dog was fully examined and a full blood test was done.

CBC

WBC	10.3		10 ³ /μL
RBC	5.68		10 ⁶ /μL
HGB	15.2		g/dL
HCT	39.3		%
MCV	69.2		fL
MCH	26.8	H	Pg
MCHC	38.7	!	g/dL
PLT	48	L	10 ³ /μL
LYM	2.7		26.1%
MON	0.3		3.2%
EOS	0.3		2.9%
GR	7.0		67.8%
RDW-CV	9.9	L	%
RDW-SD	27.4	L	fL
PCT	0.03		%
MPV	6.4	L	fL
PDW	20.8		%

Biochemistry

GLU	99 mg/dL		75 - 128
CRE	1.21 mg/dL		0.40 - 1.40
BUN	21.3 mg/dL		9.2 - 29.2
GPT	172 U/I	H	17 - 78
GOT	170 U/I	H	17 - 44
ALP	2266 U/I	H	47 - 254
GGT	15 U/I		
ALB	2.6 g/dL		2.6 - 4.0
IP	7.6 mg/dL	H	1.9 - 5.0

An X-ray was done and it revealed a buildup of gas in the intestines (Figure 1) similar to a blockage or intussusception. An ultrasound was also performed and revealed a mass in the intestines.

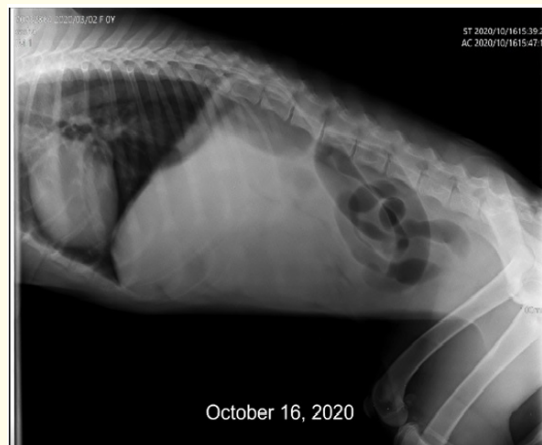


Figure 1: Built up of gas in the intestines shown as black cavities in the abdomen.

The decision was made by Dr. Nidal Hassan to intervene surgically.

The dog was prepared for surgery and anesthetized.

Anesthesia protocol

Pre-medication	Morphine 0.2 mg/kg Ceftriaxone 25 mg/kg
Induction	Diazepam 0.2 mg/kg Propofol 6 - 8 mg/kg
Maintenance	Ketamine 5 mg/kg Isoflurane 2%

The exploratory surgery showed an intussusception in the intestines that took almost 30% of the total intestines. Most parts were necrotic and damaged as shown in figure 2 and couldn't be retrieved. The necrotic intestines alongside the connected mesentery were removed and the jejunum was connected directly to the colon (Figure 3 and 4).

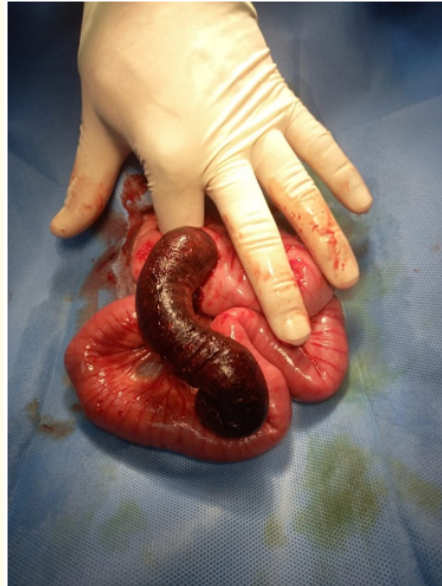


Figure 2: *The necrotic part of the intestines where the intussusception happened.*

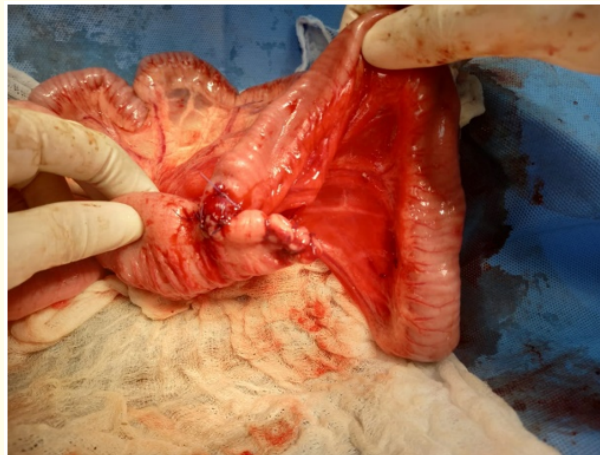


Figure 3: *The connection between the jejunum and colon.*

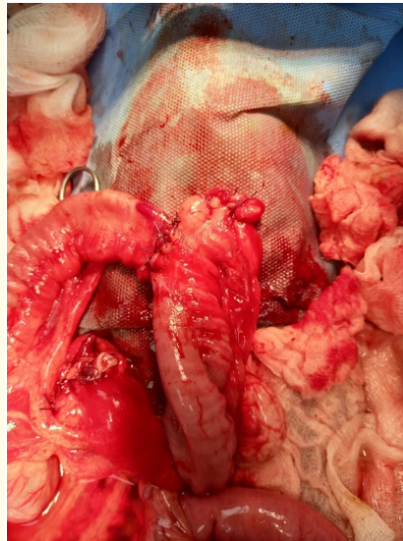


Figure 4: The connection between the jejunum and colon.

The damaged part of the intestine that was removed measured 140 cm as shown in figure 5.



Figure 5: The damaged part of the intestines that was removed.

Sasha was able to drink and eat right after surgery. An X-ray with contrast was done on the second day of surgery to check if there's any more obstruction or leakage as shown in figure 6 and the results were promising. She was put on a strict soup like diet for a month with multivitamins, antibiotics and probiotics.



Figure 6: X-ray with contrast showing the different parts of the gastrointestinal tract.

This is Sasha today, fully grown and living a healthy lifestyle.



Figure B

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