

Appendix

Mountain View Veterinary Clinic

Use of 12-hour NDV-induced serum

Date	Owner/Agency	Name	Description	Diagnosis	Outcome
2/18/12 Woodlawn VA Consent - N	Lara	Staffordshire terrier Brindle and white F - b. 11/20/2011	3/27/12 PCR Canine Distemper Result: Positive Abaxis Veterinary Reference Laboratories Olathe, Kansas Ct= 31.10	Survived

NOTES

HBC ...

2/29/12
O relinquished Lara
to Jen Roberts
Verified by Jen
Roberts and Jodie P.

3/13/12
Coughing, losing
weight
BW - 7# puppy vacc.

3/14/12
Bloody diarrhea -
parvo test POS!
Metacam 0.25ml PO
Naxcel 0.15ml IV
Famotidine 4ml IV
10 a.m. NDV serum
1.5mlSQ fm Jett
10 p.m. NDV serum
1.5mlSQ fm Jett

3/15/12
BAR
Metacam 0.25ml PO
Naxcel 0.15ml IV
Famotidine 4ml IV
10 a.m. NDV serum
1.5mlSQ fm Jett

...
6/2/12
Adopted by
.....!

Date	Owner/Agency	Name	Description	Diagnosis	Outcome
3/6/12	Buck Consent form - Y Lexington KY	Pax	Cocker Spaniel mix White, F/12wks/ b. 12/31/2011	3/14/12 PCR Canine Distemper Result: Positive Abaxis Veterinary Reference Laboratories Olathe, Kansas	Survived

NOTES

NDV protocol - PE: nasal
& ocular/hardened paw
pads/Brd until Friday;
coughing & saw focal
seizure on drive/PCR test
Nasal swab in today
9 p.m. 2.5 ml NDV serum
SQ

3/7/12
9 a.m. 2.5 ml NDV serum
SQ
9 p.m. Very BAR
2.5 ml NDV serum SQ

3/8/12
Orbax 1 1/2ml PO QD
pm - pneumonia dev.,
coughing
Cough tablet 1/2 tab PO
Amoxi 250 mg PO pm

3/9/12 BAR
Orbax 1 1/2ml PO QD
Cough tablet 1/2 tab PO
Amoxi 250 mg PO BID
OK TO GO HOME
Rx Cough tablet 1/2 tab PO
BIDx14d • Rx Orbax 1 1/2ml
PO QDx 14d • Rx Amoxi 250
mg PO BIDx14d

Date	Owner/Agency	Name	Description	Diagnosis	Outcome
4/3/12	**** Ballard WV Consent - Y	Jubilee	Chihuahua mix Brown Spayed female b. 4/4/2008 4yrs	4/9/12 PCR Canine Distemper Result: Positive Abaxis Veterinary Reference Laboratories Olathe, Kansas	Died
NOTES O has rescue group w/recent distemper outbreak. Dog is unable to stand Possible injury from other dog.No coughing, sneezing, nasal D/C or seizures Metacam 0.17ml IV QD Naxcel 0.18ml IV					
Distemper PCR corneal swab... CD deficits in front and rear legs... unable to hold head steady...harsh lung sounds, bilaterally sm. amt mucopurulent discharge ocular 6 p.m. NDV induced serum 2ml SQ [from Jett]					
4/4/12 6 a.m. NDV serum 2ml SQ 6 p.m. NDV serum 2ml SQ Metacam 0.17ml IV QD Naxcel 0.18ml IV Hand fed 1/2 can food & 20mls H2O					
4/5/12 BAR - barking, unable to stand. Hand fed 1/4 can food. Seizuring this p.m. ... Seizuring activity recorded 4/7 and 4/8 "almost comatose" ... 4/9/12 Deceased in kennel Owner will bury					

Date	Owner/Agency	Name	Description	Diagnosis	Outcome
4/5/12	***** Austinville VA	Sadie Mae	Cocker Spaniel Blonde F/10/5/2010/18mos BW 17.8#	4/19/12 PCR Canine Distemper Result: Negative Abaxis Veterinary Reference Laboratories Olathe, Kansas	Died
NOTES paralyzed in rear can't control bladder P.E. deep pain present; small amt movement in both rear legs Offered referral, owner declined due to finances					
4/15/12 Ocular and nasal discharge. Cough. Depressed anorexic 7 p.m. NDV serum 2.8 ml SQ Cough tab - 1 tab PO BID Simplicef 100mg PO QD					
4/16/12 7 a.m. NDV serum 2.8 ml SQ Cough tab - 1 tab PO BID Caught urine for distemper test Simplicef 100mg PO QD ... Meloxicam 7.5 mg 7 p.m. NDV serum 2.8 ml SQ					
4/19/12 Dog depressed, not eating. Highly recommend euth due to declining quality of life. Owner OK'd over phone					

Date	Owner/Agency	Name	Description	Diagnosis	Outcome
4/9/12	***** Elm City NC	Sam	Lab Retriever Chocolate M 12mos b. 4/10/2011	4/16/12 PCR Canine Distemper Result: Negative Abaxis Veterinary Reference Laboratories Olathe, Kansas	Survived

NOTES

... no focal seizures of head and face	0.5ml CSF	Ate well this a.m. No movement. Few tremors this a.m. Wagging tail.
and no generalized seizures 4/10/12	Spinal tap 0.5ml serum from "HS Lab"	
NDV spinal tap today. 11 ml Propofol IV	intrathecal; Flushed w/0.5ml sterile saline 4/12 and 4/13	4/15/12
200 ml LRS IV 1.3ml	QAR, eating v well, unable to stand	Eating hand fed. Will not eat gravy
Morphine SQ	very ataxic ...	4/17/12
1.2ml Naxcel IV	4/14/12	Goes home with Rx for Phenobarb, simplicef, and Meloxicam
1.1 ml Metacam IV	... Phenobarb 1gr PO BID	
Distemper PCR		

Rythmic tremor of rear leg ... Owner reports eats and drinks well.
Head bob started about 1 wk ago ...

Date	Owner/Agency	Name	Description	Diagnosis	Outcome
4/11/12	***** Consent - Y Fayetteville NC	Baloo	Bluetick coonhound Blue and white Neutered male b. 4/12/2010 24ms	4/17/12 Spoke w/ Highland Animal Hospital. Distemper test positive according to Antech [Note on records from Highland reads: Igg: 1 - 320 Igm: 1 - 110 positi]	Survived

NOTES

P.E. Mucopurulent ocular & nasal	4/12/12 6 a.m.: NDV serum 6 ml SQ	4/13/12 BAR eating well 1/4 meloxicam 7.5mg PO	4/14/12 1/4 meloxicam 7.5mg PO
Dyspneic Tachypnic	6 p.m.: NDV serum 6c ml SQ	1 Cough tab PO BID	1 Cough tab PO BID
Depressed v. thin	Ciprofloxacin	Ciprofloxacin	Ciprofloxacin
No neurologic signs	1/2x500mg PO BID	1/2x500mg PO BID	1/2x500mg PO BID
Distemper test sent by Highland Animal Hospital in NC	Meloxicam - 1/4x7.5mg PO BID	BAR this p.m.; coughs occasionally;	Eating great. BAR 4/16/12; 4/17/12
Ciprofloxacin	Cough tab - 1 tab BID	Eating well	5/30/12
1/2x500mg PO BID	Lungs very harsh today.		BAR appears normal this a.m.
6p.m.: NDV serum 6 ml SQ	Still eating very well		

NDV Spinal Tap cases

Date	Owner/Agency	Name	Description	Diagnosis	Outcome
4/10/12	••••• Corolle NC	Pooka	Toy Poodle mix Male, neutered Black and white b. 8/21/03 8yrs old	No record Email follow-up to owner not returned	Survived

NOTES

NDV protocol w/A-O tap
IV Catheter 3.8ml Propofol IV
slowly
spinal tap - 0.2ml serum from HS
lab
intrathecal
flushed w/0.5ml sterile saline
Distemper test on CSF
Naxcel - 0.25ml IV
Morphine - 0.3ml SQ
Metacam - 0.2ml SQ

4/11/11

QAR - can stand and walk with
assistance
this a.m. but still ataxic. Urine
and feces
in kennel. Offered food and H2O
no interest.

4/12/12

BAR Eating very well. Still
ataxic
OK to go home today
Owner to keep confined and
quarantined for 2 months
RX Metacam, Simplicef and
Phenobarb

Date	Owner/Agency	Name	Description	Diagnosis	Outcome
5/2/12	••••••	Pistachio	Chihuahua mix Golden Male 7mos/ b. 10/5/2011	PCR from Abaxis @ Kansas State PCR - POSITIVE	??

NOTES

Trembles constantly;
can stand & walk
Mildly ataxic; Heart
WNL harsh lung sounds
bilaterally • IV Cath 250
ml LRS IV valium
0.3ml IV RX Phenobarb
Elixir 1.4ml PO
BIDx3oz RX
Cephalexin 2ml PO
BIDx40ml

5/7/12

" Recheck - did well for
a few days,
trembling decreased;
was eating and
drinking. Now O is hand
feeding
and syringing water;
Had 1st seizure
5/6; O thinks he's had
several minor
ones since as well.

Vocalizes almost
constantly.

Diazepam 0.4ml rectally
@8:45 a.m.
NDV spinal tap - 1.3ml
Propofol IV
.4ml Morphine SQ IV
.05ml Metacam SQ
IV Catheter 100ml LRS
IV • .1ml NDV induced
serum + 1ml NaCL
injected intrathecal at
the Atlanto-
Axial Space; Applied
pressure & elevated head
for 10 min. afterward"

5/8/12

Lateral recumbancy this
a.m.
0.1ml Naxcel IV
60mls LRS IV
0.09 ml Metacam IV
...
5/10/12
QAR V. ataxic ...

Date	Owner/Agency	Name	Description	Diagnosis	Outcome
5/10/12	***** Silver Spring MD	Kitana	Siberian Husky mix White Spayed female b. 1/19/2012 16w	Referral hospital called reported distemper pos PCR test taken	DIED 5/14/12

NOTES

distemper	.3 Benadryl SQ	5/11/12	5/12/12
P.E. Twitching. Fly	.37 morphine SQ	Lateral recumbency,	Phenobarb 1/2x1/4 gr
biting seizures	0.2ml NDV serum	muscle twitching	PO BID
started yesterday. Lungs	intrathecal	moaning. Referral	Simplicef 1/2x100mg
harsh. Paw	0.5ml Rectally diazepam	hospital called	PO QD
pads severely crusted.	Dopram 0.5ml	reported distemper pos.	5/13/12
IV cath already	sublingually	Phenobarb 1/2x1/4 gr	[Handwriting illegible]
placed	Propofol 4.5ml IV	PO BID	7 p.m. NDV serum SQ 2
P. spinal tap - NDV	0.25ml Diazepam	Morphine 0.3ml SQ	ml
serum	Rectally	RX: Phenobarb 1/2 tab	200ml SQ LRS
		PO BID	
		Naxcel 0.25ml SQ	
		Standing this p.m.	
		Uninterested in food	
		Does not seem very	
		painful	

NDV SERUM

LIVED	DIED
4	2

NDV SERUM SPINAL TAP

LIVED	DIED
1	1

Unknown outcome on 1 case.

Follow-ups needed on all spinal tap cases

ACRONYMS

NDV: Newcastle Disease	Bolus: Form of sub-Q injection	CRT: Capillary refill time
Vaccine	(sometimes a tablet in other animals)	PE - WNL: within normal limits
LRS: Lactated Ringer's solution	S/R: suture removal	No SIR: No suture removal
SQ: subcutaneous	QD: 4 times a day	Rx: prescription
Drontal: dewormer	BAR: Bright and alert	O: Owner
PO: by mouth	HBC: Hit by car	BW: Body weight
BID: Twice a day	FHO: Femoral head osteotomy	WNL: within normal limits
P.E.: Physical exam	CD Deficits: Neurol unable to	
BNP: ointment	make paw upright	

Mountain View Veterinary Clinic

Use of Newcastle Disease Vaccine in Intravenous Injection

Date	Owner/Agency	Name	Breed/Color	Gender/Age/birthday	Treatment notes	Outcome
10/11/11	Laurie's Rescue Dogs	Meg	Boxer mix/ tri-color	F/16w/7/12/2011	NDV Protocol 2mls NDV mixed w/33 mls LRS IV 0.3 ml Benadryl SQ IV cath 12/2/11 Rx Drontal 20#	Survived
		Aussie Mix 1	Shepherd/ Australian mix	U/16w/7/8/2011	NDV Protocol 2 mls NDV mixed w/33 mls LRS IV 0.3 ml Benadryl SQ 0.15 ml Naxcel SQ IV cath 10/28/11 RX Clavamox to share w/Germ. Shep RX Clavamox 62.5mg PO BIDx7d 11/2/11 Refill Clavamox 62.5mg PO BIDx7d	Survived
		Aussie Mix 2	Shepherd/ Australian mix	U/16w/7/8/2011	NDV Protocol 2 mls NDV mixed w/33 mls LRS IV 0.3 ml Benadryl SQ 0.15 ml Naxcel SQ IV cath 11/2/11 RX Clavamox 62.5mg PO BIDx7d	Survived
		Boxer Mix 1	Boxer Mix/ tri-color	U/16w/7/12/2011	NDV Protocol 2 mls NDV mixed w/33 mls LRS IV 0.3 ml Benadryl SQ 0.15 ml Naxcel SQ IV cath	Survived
		Boxer Mix 2	Boxer Mix/ tri-color	U/16w/7/12/2011	NDV Protocol 2 mls NDV mixed w/33 mls LRS IV 0.3 ml Benadryl SQ 0.15 ml Naxcel SQ	Survived
		Germ. Shep 1	German shep. mix Black and Tan	M/17w/7/5/2011	NDV Protocol 2 mls NDV mixed w/33 mls LRS IV 0.3 ml Benadryl SQ 0.15 ml Naxcel SQ	Survived
		Germ. Shep 2	German shep. mix Black and Tan	F/17w/7/5/2011	NDV Protocol 2 mls NDV mixed w/33 mls LRS IV IV Cath. 0.3 ml Benadryl SQ 0.15 ml Naxcel SQ 11/2/11 RX Clavamox 62.5mg PO BIDx7d	Survived
10/12/11	Wythe County Humane Society	Ashley	Australian Cattle Dog red	F/5m/5/15/2011	NDV vacc - 2cc + 33ml LRS IV Naxcel 0.3ml IV LRS __ ml IV P.E. 8% dehydrated. Previous diarrhea Cough. Nasal discharge. Weak, depressed When eating dry food, dog gags and salivates Does not happen with canned food*	Deceased 10/25/11

		Zuess	Daschund, minature mix black and tan	M/12w/7/14/2011	NDV Vaccine Protocol P.E. Mucopurulent ocular/nasal discharge Productive cough Naxcel 0.2 ml IV NDV vaccine 2 ml diluted in 33 ml LRS IV * see PDF	Survived
10/15/11	Wythe County Humane Society	Trixie	Shih Tzu	U/12m	NDV vac Mucopurulent ocular discharge Very depressed NDV vac - 2cc IV + 35 ml LRS Ampicillin - 0.4ml SQ BID bnp - apply OU BID IV cath Corneal swab for distemper PCR 250ml Bolus LRS * see PDF	Deceased 10/19/11
10/21/11	Wythe County Humane Society	Sitta Lee	Puggle	Spayed Female/ 5yrs	NDV treatment - 35ml LRS+ 2ml NDV IV S/R from spay Benadryl 0.1 ml SQ Polyflex - 0.4 ml SQ BID Metacam 0.15 ml Lasix 0.1 ml IV BID 10/22/11 Dead in kennel this a.m.	Deceased 10/22/11
10/24/11	Wythe County Humane Society	Timmy	Chihuahua Mix Brown	M/24m/10/26/2009	NDV 2ml NDV vacc in 33 ml LRS IV 10/25/11 .25ml Naxcel .1ml Benadryl SQ/ IV Catheter (cont.)	Survived
10/24/11	Wythe County Humane Society	Sugar	Maltese mix white	F/24m/10/26/2009	NDV 2 ml NDV vacc given in 33 ml LRS IV .37 ml Naxcel SQ .1 ml Benadryl SQ IV Catheter RX Doxt 100 mg Give 1/4 tab PO BIDx14 days	Survived
10/24/11	Wythe County Humane Society	Baby	Schnauzer mix black	Spayed Female/ 5yrs/10/27/2006	NDV 2mls NDV Vacc w/ 33 mls LRS IV IV cath 0.37 ml Naxcel SQ 0.3 ml Benadryl SQ RX Doxy 100mg Give 1/4 tab PO BIDx14days	Survived
10/24/11	Wythe County Humane Society	Thomas	Terrier, Cairn mix Blonde	M/24m/10/26/2009	NDV 2ml NDV mixed w/33 ml LRS IV 10/26/11 1/2 Polyflex SQ IV Catheter Rx Doxy 100mg 1/4 tab PO BIDx14days	Survived
10/24/11	Wythe County Humane Society	Shelby	Chihuahua mix tri-color	F/12m/10/26/2010	NDV 2ml NDVmixed w/ 33 ml LRS IV 10/26/11 IV Catheter RX Doxy 100 mg 1/4 tab PO BIDx14dys	Survived
10/24/11	Wythe County Humane Society	Hairy	Fox terrier mix Black	M/24m/10/26/2009	NDV 2ml NDVmixed w/ 33 ml LRS IV 10/26/11 IV Catheter RX Doxy 100 mg 1/4 tab PO BIDx14dys	Survived

10/24/11	Wythe County Humane Society	Shelly	Chihuahua mix tri-color	F/12m/10/26/2010	NDV 2ml NDVmixed w/ 33 ml LRS IV 10/26/11 IV Catheter RX Doxy 100 mg 1/4 tab PO BIDx14 days	Survived
10/24/11	Wythe County Humane Society	Katie	Terrier, Jack Russell mix brown and white	F/17wks/6/28/2011	NDV 2ml NDVmixed w/ 33 ml LRS IV 10/26/11 IV Catheter RX Doxy 100 mg 1/4 tab PO BIDx14dys	Survived
10/24/11	Wythe County Humane Society	Lacey	Terrier, Jack Russell mix brown and white	F/17wks/6/28/2011	NDV 2ml NDVmixed w/ 33 ml LRS IV 10/26/11 IV Catheter RX Doxy 100 mg 1/4 tab PO BIDx14 days	Survived
10/26/11	Wythe County Humane Society	Oreo	Shih Tzu mix black and white	M/3yrs/10/26/2008	NDV 2ml NDVmixed w/ 33 ml LRS IV IV Catheter .2ml Benadryl SQ RX Doxy 100 mg 1/4 tab PO BIDx14dys	Survived
10/26/11	Wythe County Humane Society	Peanut	Cairn Terrier mix - tan	M/24m/10/26/2009	NDV 2ml NDVmixed w/ 33 ml LRS IV IV Catheter .2ml Benadryl SQ RX Doxy 100 mg 1/4 tab PO BIDx14dys	Survived
10/28/11	Wythe County Humane Society	Blue	Toy Poodle black and tan	M/8yrs/11/3/2003	NDV vacc - 2ml NDV + 35 ml IV Benadryl - 0.1 ml SQ Doxycycline - 50 mg PO QD q 10d Very severe dry, non-productive cough PolyFlex 0.4 ml SQ Dog received 50 ml LRS during vac.	Survived
10/28/11	Wythe County Humane Society	Sugar	Yorkie mix	N/A	NDV vac - 2ml + 35 ml LRS IV Benadryl 0.1 ml SQ Doxycycline 50 mg PO QD q10days 50 ml LRS during vaccination	Survived
10/28/11	Wythe County Humane Society	Spike	Scot terrier black	N/A	NDV vac - 2ml + 35 ml LRS IV Benadryl 0.1 ml SQ Doxycycline 50 mg PO QD q10days 50 ml LRS during vaccination [Sugar, Spike records on same form]	Survived
10/28/11	Wythe County Humane Society	Shorty	Poodle mix white	N/A	NDV vac - 2ml + 35 ml LRS IV Benadryl 0.1 ml SQ 50 ml LRS during vaccination	Survived
10/28/11	Wythe County Humane Society	Happy	Yorkie poo tan/black	N/A	NDV vac - 2ml + 35 ml LRS IV Benadryl 0.1 ml SQ 50 ml LRS during vaccination	Survived
10/28/11	Wythe County Humane Society	Red	Pekinese red	N/A	NDV vac - 2ml + 35 ml LRS IV Benadryl 0.1 ml SQ 50 ml LRS during vaccination [Shorty, Happy, Red records same form]	Survived
11/28/11	Wiles	Buddy	Collie Mix Sable and White	M/9yrs/11/30/2002	NDV protocol Dog is on Doxycycline, Phenobarbital Meloxicam & tramadol IV catheter 2 ml NDV mixed w/35 ML LRS IV 1 ml Benadryl SQ 12/4/11 RX Lixotinic 2 oz - Give 5cc PO SID until gone	Deceased

12/8/11	Higgins	Oz	Golden Retr. golden	M/5yrs/12/9/2006	* see PDF includes: Bilat ocular discharge, severely harsh lungs [lab test confirms distemper] NDV vaccine - 3ml in 32 ml LRS IV ... 12/14/11 Seizure -- euthanized	Deceased
5/23/12	Davis	Gizmo	Yorkshire Terr. Brown and tan	M/6yrs/2/9/2006	Coughing, not eating, vomiting lethargic Blood panel Naxcel - 0.2ml IV Metacam - 0.06ml IV Cerenia 0.3ml IV ... see PDF 5/24/12 Distemper test - ocular swab NDV vacc - 2ml diluted in 35 ml LRS IV Benadryl - 0.3ml IM ... 5/28/12 BAR - Eating well. Urinated outside, Sneezing while on walk. Naxcel - 0.2ml IV Famotidine 0.2ml IV Metacam - 0.06ml IV OK TO GO HOME Rx for Amoxi, pepcid, metacam, doxycycline	Survived
5/23/12	Davis	Bubby	Yorkshire Terr. Black and tan BW 3.2#	M/9wks/3/21/2012	puppy vacc. Deworm 5/29/12 Possible distemper. Coughing, watery eyes, sneezing. NDV protocol RX Amoxi 0.75ml PO BIDx14days Rx Metacam 0.1ml PO QDx5days Rx Cough tabs 1/2 tab PO BID DRN 6/14/12 rev RX Amoxi 0.75ml PO BIDx14days - out of stock Rx Cough tabs 1/2 tab PO BID Rx Clavamox 1/2 ml PO BID	Survived

32 dogs treated with NDV as IV
27 survived
5 died