

ATTACHMENT

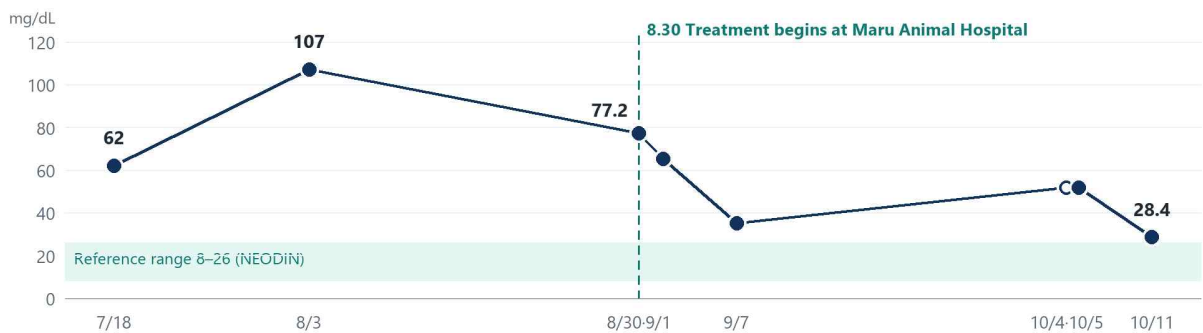
Teddy's Kidney Disease Test and Treatment Records

13 pages of test and treatment records for Teddy, a Yorkshire Terrier, July–October 2023 — U.S. → Maru Animal Hospital → university animal hospitals

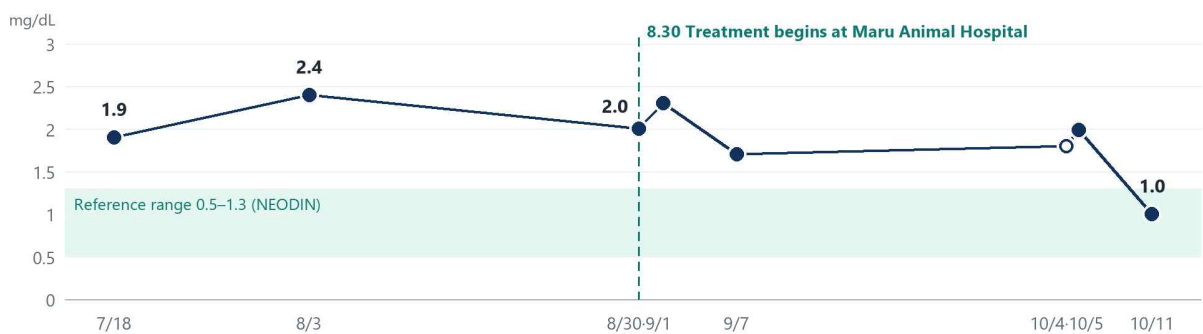
107 → 28.4 BUN mg/dL · 8.3 → 10.11	2.4 → 1.0 Creatinine mg/dL · same period	4 institutions Testing institutions	13 pages Original test & treatment records
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01 Test value trends

BUN (blood urea nitrogen)



Creatinine



○ marks a value recorded only in the blood test log (10.04, Haemaru Animal Hospital; no lab report). Reference ranges differ by institution.

02 Patient & care overview

Patient	Teddy · Dog (Yorkshire Terrier) · Neutered male · Born September 1, 2010 (13 years old in 2023)
Period	July 18 – October 11, 2023 (13 pages of test and treatment records)
Institutions	ANTECH (USA; Veterinary Care of Bedford) · Maru Animal Hospital (tests referred to NEODIN) · Konkuk University Animal Hospital · Seoul National University Animal Hospital
Diagnosis (Konkuk Univ. report)	Severe systemic hypertension, chronic kidney disease (CKD) IRIS stage 2/4, gallstones
Diagnosis by primary vet in the U.S. (owner's account)	Chronic renal failure, liver cirrhosis [ascites] · no diagnosis certificate

03 Test values by date

Date	Institutions	BUN	Creatinine	Notes
2023.07.18	ANTECH (USA)	62	1.9	Before entering Korea
2023.08.03	ANTECH (USA)	107	2.4	8.29 arrived at Incheon Airport, 8.30 arrived at Maru Animal Hospital (log)
2023.08.30	NEODIN veterinary laboratory (referred by Maru Animal Hospital; treatment start date)	77.2	2.0	Weight 6kg, BCS 4/9
2023.09.01	Konkuk Univ. Animal Hospital	65	2.3	Diagnosed hypertension · CKD 2/4 · gallstones
2023.09.07	Konkuk Univ. Animal Hospital	35	1.7	
2023.10.04	Haemaru Animal Hospital	51.7	1.80	Recorded in log only (no lab report)
2023.10.05	SNU Animal Hospital	51.7	1.99	Weight 5.30kg, BCS 4/9
2023.10.11	NEODIN (referred by Maru Animal Hospital)	28.4	1.0	Weight 5.2kg, BCS 1/9
2023.12.30	Owner's account (no lab report)	–	–	About 60~70% improved by this time; self-treatment ongoing

Notes on the data

- Units are mg/dL. Reference ranges differ by institution (e.g., NEODIN: BUN 8~26, Creatinine 0.5~1.3).
- The last date in the blood test log (10/16) is the date the results e-mail was received; the blood was drawn on October 11.
- At the bottom of the log is written: "Treatment discontinued due to the caretaker's circumstances."
- During the same period, oral medication and subcutaneous fluids prescribed by the university animal hospitals were also given.
- Lab report images are reproduced unaltered from the originals.

04 Original test and treatment records (13 pages)

Teddy 혈액검사 일자						
항목	BUN	Creatinine	ALT	AST	ALP	검사기관
일시						
23.07/18	62.0	1.90	x	x	x	미국 (Veterinary Care of Bedford)
23.08/03	107	2.40	x	x	x	미국 (23.08/29인원공함도착, 8/30마주사(노약) NEODIN)
23.08/30	77.2	2.00	156	39	1045	NEODIN
23.09/01	65.0	2.30	x	x	906	한국대용금(Dr.신)
23.09/07	35.0	1.70	x	x	593	한국대내과
23.10/04	51.7	1.80	138 (간염복수)		579	해마루(Dr.오봉훈)
23.10/05	51.7	1.99	110	22	598	서울대용금(Dr.남궁)
23.10/16	28.4	1.00	99	23	554	NEODIN
(관리인의 사정에 의하여 치료중지 함)						

① Blood test log (2023.07.18 ~ 10.16)

One-page printout of BUN·Creatinine·ALT·AST·ALP values and testing institutions by date

ANTECH 800.872.1001				Chemistry Renal Profile w/SDMA Complete Blood Count Urinalysis-Complete Urine Protein Creatinine Ratio			
Veterinary Care of Bedford 156 Route 117 Bypass Rd, Bedford Hills, NY, 10507, USA Dr. Uchenna Okeke				Reported 7/18/2023	Reported 7/18/2023	Accession# NYAG00521137	
	Patient Name Teddy	Owner Dorville Miaoou	Species Canine	Breed Yorkshire Terrier	Sex CM	Age 11Y	Reported 7/18/2023
Test Requested				Results			
Chemistry Renal Profile w/SDMA				Adult Reference Interval Units			
TOTAL PROTEIN				7.3 5.0-7.4 g/dL			
ALBUMIN				4.1 2.7-4.4 g/dL			
GLOBULIN				3.2 1.6-3.6 g/dL			
A/G RATIO				1.3 0.8-2.0			
BUN				62 (HIGH) 8-31 mg/dL			
Creatinine				1.9 (HIGH) 0.6-1.6 mg/dL			
SDMA				23.6 (HIGH) <14.0 UG/dL			
As increased SDMA (>20.0 ug/dL) in cats and >16.0 ug/dL in dogs should be interpreted in light of the patient's history, clinical presentation and hydration status. Additional diagnostic testing may be warranted to differentiate acute kidney injury (AKI) from chronic kidney disease (CKD) and/or identify the presence of underlying conditions that can cause a significant increase in SDMA. Refer to the Antech SDMA algorithm for guidance regarding further diagnostics, treatment and/or monitoring. It is recommended to recheck SDMA and creatinine in 2-4 weeks to assess for persistence or trends in SDMA, and interpret in light of the creatinine.							
To access the SDMA algorithm, please visit: https://tinyurl.com/tyupaw							
BUN/CREAT RATIO				35 (HIGH) 4-27			
PHOSPHORUS				5.5 2.5-6.0 mg/dL			
CALCIUM				11.8 (HIGH) 8.8-11.4 mg/dL			
SODIUM				147 139-154 mEq/L			
POTASSIUM				6.2 (HIGH) 3.8-5.5 mEq/L			
NA/K RATIO				24 (LOW) 27-38			
Test Requested				Results			
Complete Blood Count				Adult Reference Interval Units			
WBC				4.2 4.0-15.5 10 ³ /uL			
RBC				8.3 4.8-8.3 10 ⁶ /uL			
HGB				17.6 12.1-20.3 g/dL			
HCT				53 36-60 %			
MCV				64 59-79 fL			
MCH				21.3 19-28 pg			
MCHC				33 30-38 g/dL			
Platelet Count				380 170-400 10 ³ /uL			
Platelet Estimate				Adequate			
Differential				Absolute %			
Neutrophils				2,960 70 2,000-10,000 AL			
Bands				0 0-3			
Lymphocytes				524 22 600-4,500 AL			
Monocytes				250 6 0-400 AL			
Eosinophils				128 3 0-1,200 AL			
Basophils				0 0-100 AL			
Test Requested				Results			
Urinalysis-Complete				Adult Reference Interval Units			

Page 1 of 2

Accession ID: NYAG00521137 (FNAU)

7/18/2023 3:27:49 PM

② 2023.07.18 · ANTECH (USA)

Test before entering Korea. BUN 62, Creatinine 1.9 (both HIGH)

ANTECH 800.872.1001									
Chemistry Renal Profile w/SDMA Complete Blood Count Urinalysis-Complete Urine Protein Creatinine Ratio									
Veterinary Care of Bedford 156 Route 117 Bypass Rd, Bedford Hills, NY, 10507, USA Dr. Uchenna Okeke									
 Patient Name Teddy	Owner Dorville Miaoou	Species Canine	Breed Yorkshire Terrier	Reported 8/3/2023	Reported 8/3/2023	Accession# NYAG0487353	Patient ID ES2NC65		
Test Requested	Results	Adult Reference Interval Units							
Chemistry Renal Profile w/SDMA									
TOTAL PROTEIN	6.7	5.0-7.4 g/dL							
ALBUMIN	3.7	2.7-4.4 g/dL							
GLOBULIN	3.0	1.6-3.6 g/dL							
A/G RATIO	1.2	0.8-2.0							
BUN	107 (HIGH)	8-31 mg/dL							
Creatinine	2.4 (HIGH)	0.6-1.6 mg/dL							
SDMA	22.7 (HIGH)	<14.0 UG/dL							
As increased SDMA (>20.0 ug/dL) in cats and >16.0 ug/dL in dogs should be interpreted in light of the patient's history, clinical presentation and hydration status. Additional diagnostic testing may be warranted to differentiate acute kidney injury (AKI) from chronic kidney disease (CKD) and/or identify the presence of underlying conditions that can cause a significant increase in SDMA. Refer to the Antech SDMA algorithm for guidance regarding further diagnostics, treatment and/or monitoring. It is recommended to recheck SDMA and creatinine in 2-4 weeks to assess for persistence or trends in SDMA, and interpret in light of the creatinine.									
To access the SDMA algorithm, please visit: https://tinyurl.com/tyupaw									
BUN/CREAT RATIO	45 (HIGH)	4-27							
PHOSPHORUS	5.8	2.5-6.0 mg/dL							
CALCIUM	10.5	8.8-11.4 mg/dL							
SODIUM	145	139-154 mEq/L							
POTASSIUM	5.8 (HIGH)	3.8-5.5 mEq/L							
NA/K RATIO	26 (LOW)	27-38							
Test Requested	Results	Adult Reference Interval Units							
Complete Blood Count									
WBC	4.9	4.0-15.5 10 ³ /uL							
RBC	8.9	4.8-8.3 10 ⁶ /uL							
HGB	14.2	12.1-20.3 g/dL							
HCT	46	36-60 %							
MCV	67	59-79 fL							
MCH	20.7	19-28 pg							
MCHC	31	30-38 g/dL							
Platelet Count	344	170-400 10 ³ /uL							
Platelet Estimate	Adequate								
Differential	Absolute	%							
Neutrophils	3,479	71	2,000-10,000						
Bands	0	0	0-3						
Lymphocytes	580	20	600-4,500						
Monocytes	245	6	0-400						
Eosinophils	198	3	0-1,200						
Basophils	0	0	0-100						
Test Requested	Results	Adult Reference Interval Units							
Urinalysis-Complete									
Page 1 of 2 Accession ID: NYAG0487353 (FNAU) 8/3/2023 3:00:09 PM (UTC)									

③ 2023.08.03 · ANTECH (USA)

BUN 107, Creatinine 2.4 (both HIGH). 8.29 arrived at Incheon Airport, 8.30 arrived at Maru Animal Hospital (log)

— BioVet Laboratory

검사결과보고서

병원명	마루동물병원(송파)	보호자명	-
환자명	teddy	접수번호	20230830-085
종	개	품종	믹스
성별	남	나이	11년 9개월
BCS	4/9	체중	6Kg
검사의뢰일	2023-08-30	검사보고일	2023-08-30

검사결과보고서

검사코드	검사명	검사결과	이상유무	참고치
NO002	Total protein	7.6	H	5.4 - 7.4 g/dL
NO003	Albumin	3.8	정상	2.9 - 4.2 g/dL
NO004	Bilirubin total	0.1	정상	0.0 - 0.4 mg/dL
NO005	Glucose	100	정상	70 - 118 mg/dL
NO006	BUN	77.2	H	8 - 26 mg/dL
NO007	Creatinine	2.0	H	0.5 - 1.3 mg/dL
NO008	Uric acid	0.1	정상	0 - 2 mg/dL
NO009	AST(GOT)	39	정상	15 - 43 U/L
NO010	ALT(GPT)	156	H	19 - 70 U/L
NO011	ALP	1045	H	15 - 127 U/L
NO012	γ-GTP(GGT)	4	정상	0 - 6 U/L
NO013	LDH	246	H	0 - 200 U/L
NO014	CK/CPK	147	정상	46 - 320 U/L

④ 2023.08.30 · NEODIN (referred by Maru Animal Hospital)

Referred on the day of arrival. BUN 77.2, Creatinine 2.0, ALT 156, ALP 1045 (H). Weight 6kg, BCS 4/9

진료 소견서

치환내역	○ 표준 배양소용량 검사 상 간 용액 (30 x 30 mm), 배양 용액 (7 x 10 mm) , 다량의 적색 비배양 용액이 있어, 용액 및 인쇄액 관리 소, CT 용액용 용액 이에 대한 평가가 필요함 ○ 마약지표로, 불투명도 검사 상 간용액 비배양 용액에 내구성이 다른 고요로 specie 확인됨, 심리저장 및 곤충 정형에 내구성의 고요로 specie , 일부 불투명도 확인 corruption 및 곤충용의 정형 비배양 용액 이, 위험요소 전파하여 이에 대한 임상감상 모니터링 및 주주 주주 검사 필요함도 있습니다.			
	1. 항구보제			
	Maropitant	1mg/kg	SID	PO(PM)
	Ondansetron	1mg/kg	BID	PO
	2. 위장보조제			
	Omeprazole	1mg/kg	BID	PO
	3. 인슐린			
	Sivelenator	75mg/kg	BID	PO(meal)
	Lantamun	20mg/kg	BID	PO(meal)
	4. 보조제			
치환내역	Renal advanced	1spoonful/kg	BID	PO
	Azodyl	1capacit/kg	BID	PO
	probiotics	1titic	BID	PO
	5.혈관확장제(ACE 억제제)			
	Ramipril	0.125mg/kg	SID	PO(PM)
	6. 부상 치료제			
	Trifluoracetate	1mg/kg	BID	PO
	7. 해열제			
	Meloxicam	15mg/kg	BID	PO
	8. 호흡수술			
	Normal saline	100mL	BID	SO

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건국대학교 부속 동물병원
☎ 02-450-3664

⑥ Konkuk Univ. medical report 2/2 · Prescriptions

Abdominal ultrasound: liver mass (30×30mm), pancreatic nodule (7×10mm), multiple small splenic nodules. Prescriptions: antiemetic-GI protectant-phosphate binder-renal supplement-ACE inhibitor-Cushing's medication-antibiotic-subcutaneous fluids

Date/Time : 2023-09-07 오후 1:54:26						Performed By [Coag Dr]							
Name	Unit	Min	Max	Result									
Clotting PT	sec	11	17	14 NORMAL									
Date/Time : 2023-09-07 오후 2:03:33													
Name	Unit	Min	Max	Result	Performed By [Catalyst DX]								
Name	Unit	Min	Max	Result									
WBC / Count	mg/dL	0.5	1.6	1.7 NORMAL									
WBC / Classification	mg/dL	7	27	20 (HIST)									
Phagocyte Inorganic	mg/dL	2.5	6.8	5.8 NORMAL									
Calcium (Ca ²⁺)	mg/dL	7.9	12	9.7 (HIST)									
Phosphate (Phosphorus)	mg/L	2.3	2.72	2.01 (HIST)									
Sodium (Sodium)	mmol/L	144	160	154 NORMAL									
Potassium (Potassium)	mmol/L	3.5	5.8	5.1 NORMAL									
Na + K Ratio				30									
Chloride	mmol/L	108	122	112 NORMAL									
CRP	mg/dL	0.1	3	0.7 (HIST)									
Date/Time : 2023-09-07 오후 2:16:02						Performed By [VetStar]							
Name	Unit	Min	Max	Result									
Glucose	mmol/L	3.85	13.9	12.07 LOW									
Date/Time : 2023-09-07 오후 2:19:39						Performed By [Catalyst DX]							
Name	Unit	Min	Max	Result									
SDMA	ug/dL	0	34	22 (HIST)									
Date/Time : 2023-09-07 오후 2:55:23						Input By [Manual]							
Name	Unit	Min	Max	Result									
uPL	ng/mL	000	400	347.28 NORMAL									
Date/Time : 2023-09-07 오후 2:55:45						Input By [Manual]							
Name	Unit	Min	Max	Result									
D-dimer (pre-diluted)	ng/mL	50	250	155.24 (HIST)									

Printed : 2023-09-08 오전 10:40:09

Page 2 of 3

⑧ 2023.09.07 · Konkuk Univ. blood test

BUN 35 (high), Creatinine 1.7 (within normal range), SDMA 22 (high)

[illegible]

⑩ 2023.10.05 · SNU medical record (SOAP)

Chief complaint: elevated liver values. Vomiting, anorexia and lethargy after coming to Korea, but 80~90% recovered; defecation and urination good; able to go on walks. BUN decreased to about 50 with oral medication and subcutaneous fluids; liver values high. Weight 5.30kg, BCS 4/9

검사결과		검사명		검사결과		이상유무		참고치							
보건의료팀	NEODIN-test@test.co.kr>	주소추가	수신자단	23.10.16 (월) 11:01											
발신사명	손학집 <sonh101@hanmail.net>	주소추가													
병원명	마루동물병원(송파)			보호자명											
환자명	테디			접수번호		20231011-123									
종	개			종종		요크셔 테리어									
성별	남			나이		13년 0개월									
BCS	1/9			체중		5.2Kg									
검사뢰의일	2023-10-11			검사보고일		2023-10-12									
검사결과보고서															
검사코드	검사명			검사결과		이상유무		참고치							
NO002	Total protein			5.2		L		5.4 - 7.4 g/dL							
NO003	Albumin			2.8		L		2.9 - 4.2 g/dL							
NO004	Bilirubin total			0.1		정상		0.0 - 0.4 mg/dL							
NO005	Glucose			93		정상		70 - 118 mg/dL							
NO006	BUN			28.4		H		8 - 26 mg/dL							
NO007	Creatinine			1.0		정상		0.5 - 1.3 mg/dL							
NO008	Uric acid			0.0		정상		0 - 2 mg/dL							

⑫ Blood drawn 2023.10.11 · NEODIN 1/2

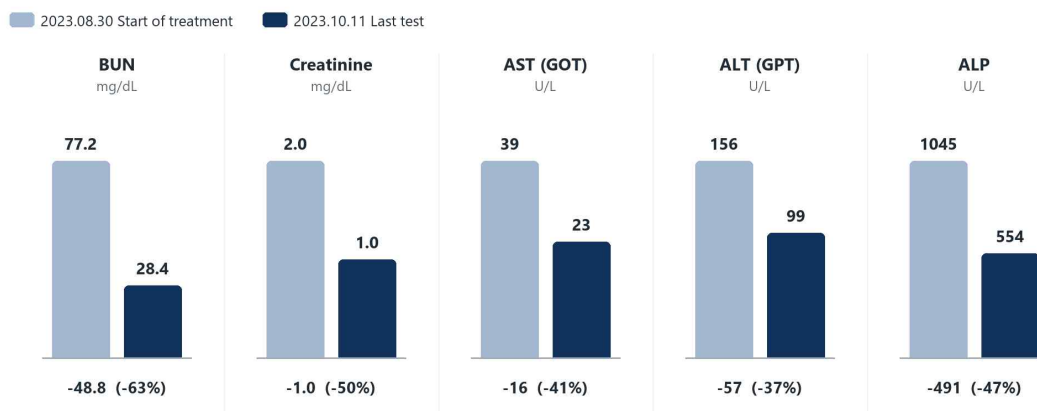
Reported 10.12, results e-mailed 10.16. BUN 28.4 (ref. 8~26), Creatinine 1.0 (normal), total protein 5.2-albumin 2.8 (L). Weight 5.2kg, BCS 1/9

NO009	AST(GOT)	23	정상	15 - 43 U/L
NO010	ALT(GPT)	99	H	19 - 70 U/L
NO011	ALP	554	H	15 - 127 U/L
NO012	γ-GTP(GGT)	10	H	0 - 6 U/L
NO013	LDH	119	정상	0 - 200 U/L
NO014	CK(CPK)	99	정상	46 - 320 U/L
NO015	Cholesterol	265	정상	135 - 345 mg/dL
NO016	Triglyceride(TG)	119	정상	19 - 133 mg/dL
NO017	Amylase	1802.2	H	185 - 900 U/L
NO018	Sodium	145.9	정상	144 - 154 mmol/L
NO019	Potassium	3.84	L	4.1 - 5.3 mmol/L
NO020	Chloride	121.2	H	105 - 116 mmol/L
NO021	Calcium	8.0	정상	7.8 - 12.0 mg/dL
NO022	Inorganic phosphate	3.8	정상	3.0 - 6.2 mg/dL
NO023	Globulin	2.4	정상	2.3 - 4.4 g/dL
NO024	Lipase	100	정상	0 - 450 U/L
NO025	응혈여부	clear	양표	

⑬ Blood drawn 2023.10.11 · NEODIN 2/2

AST 23 (normal), ALT 99, ALP 554 (H)

05 Start of treatment vs. last test — NEODIN 2023.08.30 → 10.11



Item	Unit	2023.08.30 Start of treatment	2023.10.11 Last test	Change
BUN	mg/dL	77.2	28.4	-48.8 (-63%)
Creatinine	mg/dL	2.0	1.0	-1.0 (-50%)
AST (GOT)	U/L	39	23	-16 (-41%)
ALT (GPT)	U/L	156	99	-57 (-37%)
ALP	U/L	1045	554	-491 (-47%)

Both tests were NEODIN tests requested by Maru Animal Hospital; values are as printed on the lab reports (④ · ⑫ · ⑬). The items shown are those marked in red on the reports.

06 Testing laboratory: NEODIN BioVet — as of the tests (2023)

NEODIN BioVet is a dedicated veterinary diagnostic laboratory founded in 1997. It performed Teddy's blood tests (August and October 2023); its track record and recognition up to that time are summarized below.

26 years In veterinary diagnostics (1997–2023)	Gov. designated Clinical trial site for veterinary medical devices (2020)	KRW 6.5 bn Investment from Yuhan Corp. (2021)	70+ tests Real-time PCR tests for pet infectious diseases
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Year	Details
1997	Opened as a dedicated veterinary diagnostic laboratory
2020	Designated by the Animal and Plant Quarantine Agency (Korea) as a clinical trial site for veterinary medical devices
2021	Secured investment from Yuhan Corporation (approx. KRW 6.5 billion)
2021	Introduced 70+ real-time PCR tests for pet infectious diseases, and tests in partnership with VDI Lab (USA)
2022	Signed a veterinary diagnostics business agreement with i-SENS
—	Its academic department contributed articles, such as reports on pathogens detected in pets, to the veterinary news outlet DailyVet

Sources: Daily Gaewon (2021.2.10), Edaily (2022.12.11), Korea Economic Daily (2022.4.14), DailyVet. Years and details are as reported.

ATTACHMENT

Teddy's Gold-Thread Procedure and X-ray

Maru Animal Hospital's gold thread (gold-thread implantation) procedure and an October 2023 X-ray

Patient	Teddy · Dog (Yorkshire Terrier) · Neutered male · 13 years old in 2023
Visit to Maru Animal Hospital	August 30, 2023
Procedure	Insertion of gold thread (gold-thread implantation) and Life Energy care
Related test records	"Teddy's Kidney Disease Test and Treatment Records" — lab reports from ANTECH (USA) · NEODIN · Konkuk Univ. · SNU Animal Hospitals

01 Case overview

Course of treatment

Teddy (Yorkshire Terrier, 13 years old, male), who lives in New York, USA, was diagnosed as incurable with chronic renal failure (BUN 107, Creatinine 2.4) by his primary veterinary hospital in the U.S. on August 3, 2023. After 7 large animal hospitals in New York also advised giving up, a younger sibling living on Jeju Island recommended Maru Animal Hospital in Seoul, which specializes in autoimmune diseases, and Teddy entered Korea through Incheon Airport with his owner on August 29.

Over about 5~6 months of treatment, the kidneys and liver cirrhosis (ascites) recovered by about 50~60%. Among several treatment methods, a procedure was performed in which gold thread with Life Energy applied was placed in the liver and kidney areas; recovery tests were done at Konkuk University Animal Hospital and Seoul National University Animal Hospital, both affiliated with colleges of veterinary medicine.

Maru Animal Hospital's account

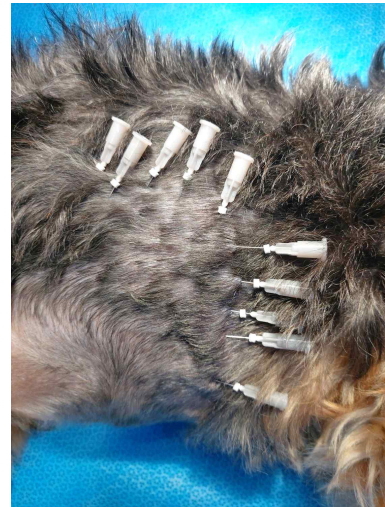
- Teddy came to Korea after a U.S. test on August 3, 2023 showed BUN 107 and Creatinine 2.4. Maru Animal Hospital inserted gold thread (gold-thread implantation) in the liver and kidney areas and provided Life Energy care alongside it. Subsequent tests were done at Konkuk University and Seoul National University Animal Hospitals.
- During the same period, oral medication and subcutaneous fluids prescribed by the university animal hospitals were also given.

02 Gold-thread insertion



Gold-thread insertion needle ① · Back

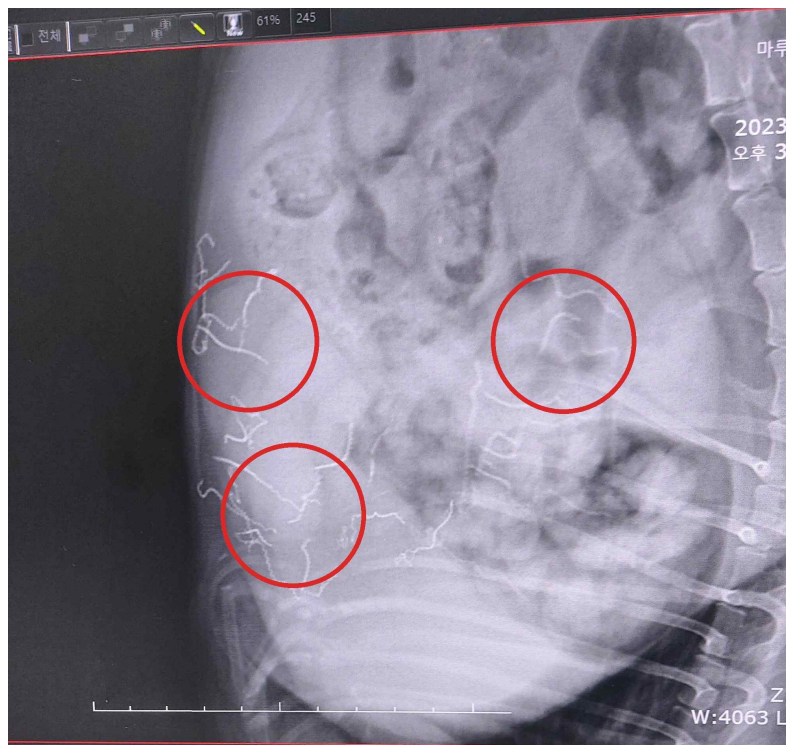
Disposable insertion needles containing gold thread inserted into the skin of the back



Gold-thread insertion needle ② · Back to flank

Insertion needles placed from the back to the flank

03 X-ray (October 2023)



A mobile phone photo of a lateral abdominal X-ray displayed on Maru Animal Hospital's PACS screen. "Maru Animal Hospital" (in Korean) and the date "2023-10-1..." are visible at the top right of the screen.

- Red circles mark where the gold threads were implanted.
- No X-ray interpretation is included in this material.

ATTACHMENT

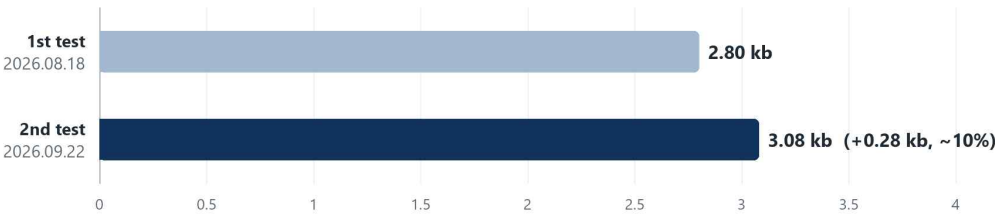
Pangi: Comparison of 2 Telomere Tests

2 PetAge360 analysis reports for Pangi, an 11-year-old dog (Aug. & Sep. 2026, requested by Maru Animal Hospital)

2.80 → 3.08 Telomere length kb (1st → 2nd)	+0.28 kb About 10% increase	35 days Test interval	8.7 ~ 8.19 Telomere care period
--	---------------------------------------	---------------------------------	---

Subject	Pangi · Dog · Male · 11 years old (as stated in the report)
Test	PetAge360 telomere analysis (oral swab collection, qPCR) · Requested by Maru Animal Hospital
Test date	1st: August 18, 2026 · 2nd: September 22, 2026 (35 days apart)
Care period	August 7–19, 2026 (per Maru Animal Hospital)

01 Comparison of the two test results



Item	1st (2026.08.18)	2nd (2026.09.22)	Change
Telomere length	2.80 kb	3.08 kb	+0.28 kb (about 10% increase)

Notes on the data

- Figures are transcribed exactly as printed in the two reports. The owner's name on the report covers has been masked.
- The 1st test date (August 18) falls within the care period (August 7–19); the 2nd test was about 5 weeks after care ended.

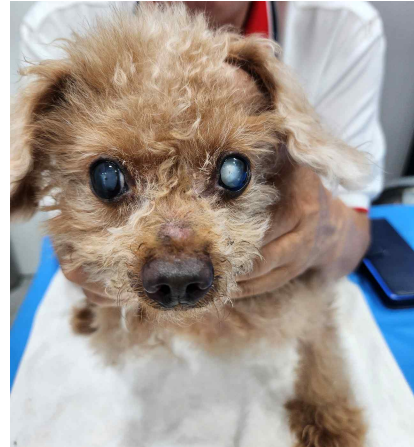
02 Eye photos and Maru Animal Hospital's account

Maru Animal Hospital's account

According to Maru Animal Hospital, Pangi could not see well because of cataracts and often had accidents. After telomere care on August 7–19, 2026, vision in one eye recovered, and care is continuing for the other eye. No ophthalmic examination record is included in this material.



Pangi ① · August 7, 2026



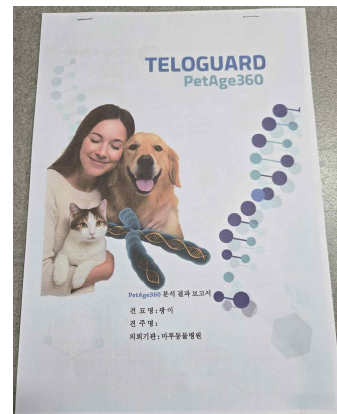
Pangi ② · August 19, 2026

03 Original PetAge360 reports



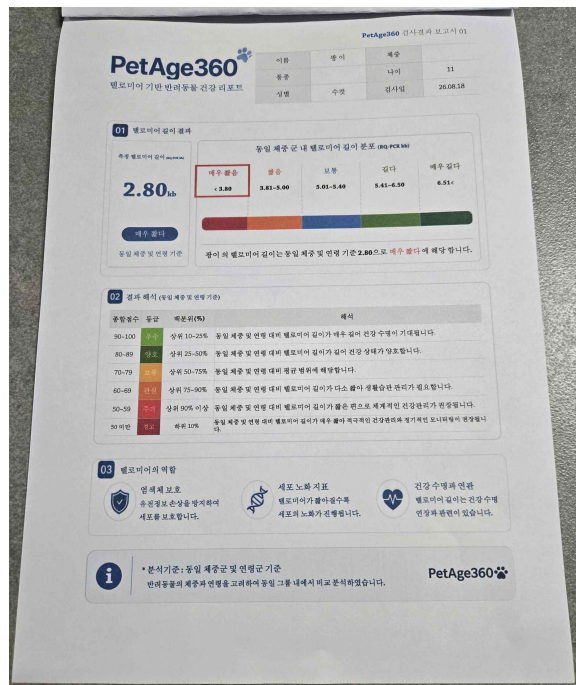
1st report cover

Pet name: Pangi · Requested by Maru Animal Hospital



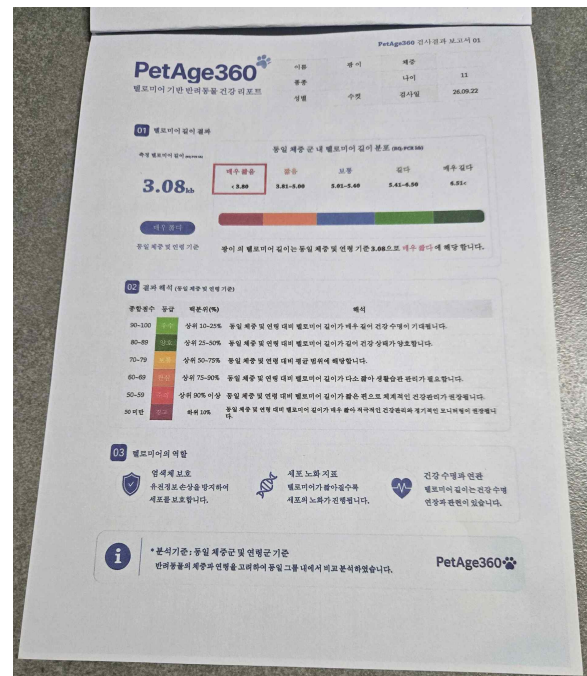
2nd report cover

Pet name: Pangi · Requested by Maru Animal Hospital



1st report, p. 2 · 2026.08.18

Measured telomere length 2.80 kb, grade "Very short"



2nd report, p. 2 · 2026.09.22

Measured telomere length 3.08 kb, grade "Very short"

ATTACHMENT

Animal Test Kit PetAge360

A personalized comprehensive Health Check for companion animals, collected with an oral swab without blood draw or anesthesia

3 tests

Test items

No blood · No anesthesia

Noninvasive oral swab collection

6 steps

Request form → courier shipment

Room temperature

Storage & shipping

Product	PetAge360® Personalized Comprehensive Health Check for Companion Animals
Made & sold by	DNAGENICS
Test items	Telomere (aging rate) · Oral microbiome · Tumor genes
Sample	Collected by rubbing the inner gums with an oral swab (no blood draw or anesthesia)

01 Kit contents



Kit contents

Instruction leaflet · DNA EVER MICROBI box · Swab/preservative tube



Sample collection tube

Oral swab and preservative tube

02 Testing procedure (per the instruction leaflet)

STEP 1

Fill out the test request form.

STEP 4

Attach barcode stickers to the preservative tube and the request form.

STEP 2

Rub the swab along the gums as far as the inside of the canine teeth to collect the sample (saliva).

STEP 5

Place the request form and the preservative tube in the box provided.

STEP 3

Put the swab into the preservative tube and snap it off at the middle joint.

STEP 6

Ship by courier to the address on the side of the kit.

03 Precautions for sample collection

Checks before and after collection

- Do not let the animal eat for 30 minutes before collection.
- Do not let the animal drink water for 10 minutes before collection.
- Ship immediately after collection and store at room temperature.
- Make sure the preservative tube is tightly closed.
- Take care that the preservative solution is not swallowed.

ATTACHMENT

Sarangi & Ruby: Comparison of 2 Telomere Tests

Two rounds of PetAge360 analysis reports for senior dogs Sarangi (12 years) and Ruby (14 years) (Jul. & Oct. 2026, requested by Maru Animal Hospital)

2.80 → 3.20 Sarangi telomere kb · about 14% increase	1.20 → 2.50 Ruby telomere kb · about 2.1×	84 days Test interval (7.20 → 10.12)	Both dogs Longer at the 2nd test
--	---	--	--

Subject	Sarangi · Dog · Female · 12 years old / Ruby · Dog · Female · 14 years old (as stated in the reports)
Test	PetAge360 telomere analysis (oral swab collection, RQ-PCR) · Requested by Maru Animal Hospital
Test date	1st: July 20, 2026 · 2nd: October 12, 2026 (84 days apart)

01 Comparison of the two test results



Dog	Age	1st (2026.07.20)	2nd (2026.10.12)	Change
Sarangi	12 years	2.80 kb	3.20 kb	+0.40 kb (about 14% increase)
Ruby	14 years	1.20 kb	2.50 kb	+1.30 kb (about 108% increase)

Notes on the data

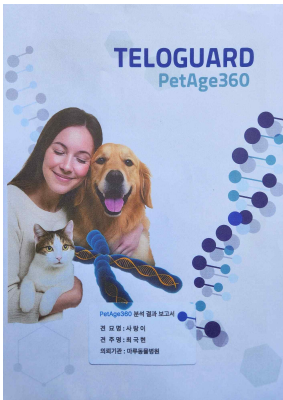
- Figures are transcribed exactly as printed in the four reports.
- Grade ranges in the reports (against the same weight and age group): Very short below 3.80 · Short 3.81~5.00 · Normal 5.01~5.40 · Long 5.41~6.50 · Very long 6.51 or above.
- Both dogs' telomeres lengthened, but the 2nd-test grade is still “Very short”.

02 3 Maru Animal Hospital Telomere Retests at a Glance

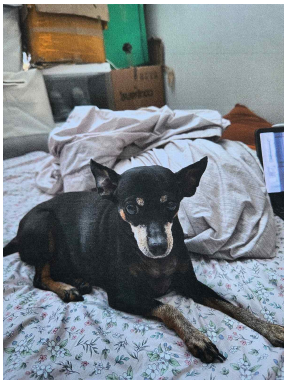
Dog	Age	1st → 2nd test date	Telomere (kb)	Change	Source
Pangi	11 years	2026.08.18 → 09.22	2.80 → 3.08	+0.28 (~10%)	Attachment 03
Sarangi	12 years	2026.07.20 → 10.12	2.80 → 3.20	+0.40 (~14%)	This document
Ruby	14 years	2026.07.20 → 10.12	1.20 → 2.50	+1.30 (~108%)	This document

All three dogs had the same PetAge360 test requested by Maru Animal Hospital, and all three showed longer telomeres at the 2nd test.

03 Dog photos and report covers



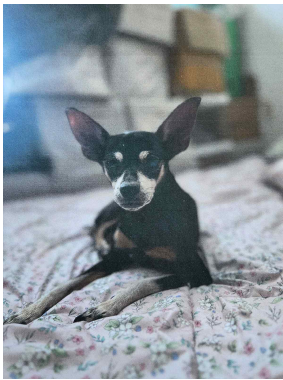
Sarangi · Report cover
Pet name: Sarangi · Requested by Maru Animal Hospital



Sarangi · Photo from report



Ruby · Report cover
Pet name: Ruby · Requested by Maru Animal Hospital



Ruby · Photo from report

04 Sarangi — Original reports (1st · 2nd)



1st report · 2026.07.20

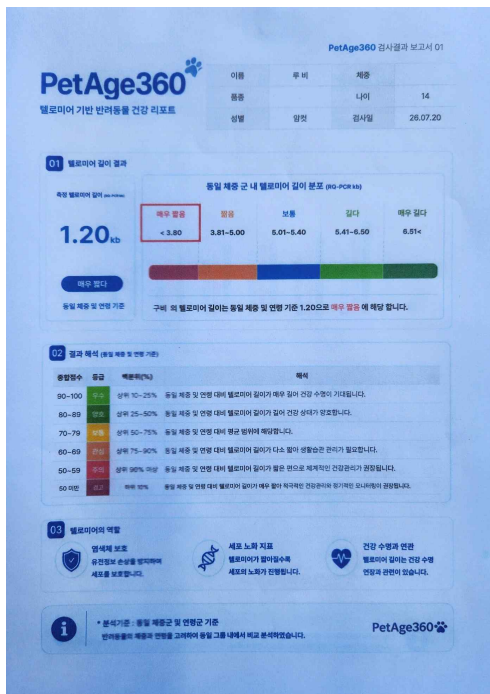
Measured telomere length 2.80 kb, grade "Very short"



2nd report · 2026.10.12

Measured telomere length 3.20 kb, grade "Very short"

05 Ruby — Original reports (1st · 2nd)



1st report · 2026.07.20

Measured telomere length 1.20 kb, grade "Very short"



2nd report · 2026.10.12

Measured telomere length 2.50 kb, grade "Very short"

06 Reference · Sarangi's 1st detailed report (2026.07.20)

The 1st test also came with a 17-page detailed report. Shown here are its overall results page and the overall findings printed in the report.



Overall 65 points (Caution) · Telomere 2.80 T/S · Biological age 13.5 years · Aging rate 1.13

Overall findings as printed in the report

- The overall health score is assessed at 65 points (Caution), and the current health status falls in the Caution stage.
- Telomere length is 2.80 against the same weight and age group, shorter than average, at a stage requiring management.
- Biological age is higher than actual age, and the aging rate of 1.13x is faster than average, so aging management is judged to be needed.
- It is recommended to slow the aging rate through a balanced diet, appropriate exercise and weight management, and to track changes with a retest after 6 months.

ATTACHMENT

Spinal Nerve Injury Recovery Cases

3 cases of "Nerve recovery after treatment" from the Maru Animal Hospital brochure (2015~2016)

3 cases

Lumbar nerve injury cases

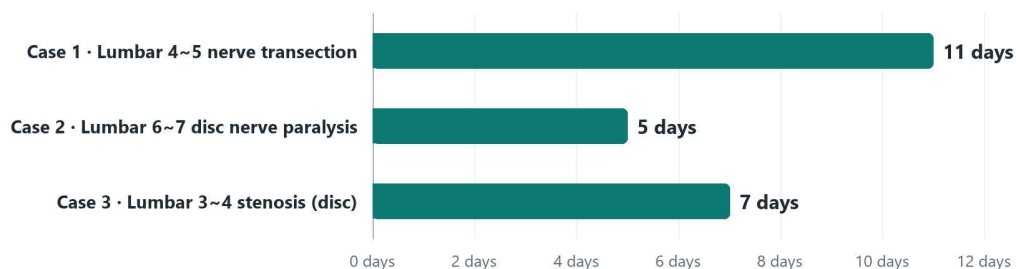
5~11 days

Treatment → improvement confirmed

2015~2016

Period in brochure

01 Days from treatment to confirmed improvement



Case	Description (brochure wording)	Treatment date	Improvement confirmed	Elapsed
1	Recovery case: spinal nerve transection at lumbar 4~5 due to a traffic accident	2015.09.03	2015.09.14	Day 11
2	Nerve paralysis due to a lumbar 6~7 disc	2016.11.11	2016.11.16	Day 5
3	Treatment case: lumbar 3, 4 stenosis (disc)	2016.12.22	2016.12.29	Day 7

02 Case 1 · Spinal nerve transection at lumbar 4~5 due to a traffic accident



Before treatment (BEFORE)

Treatment date 2015.09.03



After treatment (AFTER)

Improvement confirmed 2015.09.14 · Day 11

03 Case 2 · Nerve paralysis due to a lumbar 6~7 disc



Before treatment (BEFORE)

Treatment date 2016.11.11



After treatment (AFTER)

Improvement confirmed 2016.11.16 · Day 5

04 Case 3 · Lumbar 3, 4 stenosis (disc)



Before treatment (BEFORE)

Treatment date 2016.12.22



After treatment (AFTER)

Improvement confirmed 2016.12.29 · Day 7

Case titles and dates follow the wording printed in the brochure, and the photos were cropped from the same page.

ATTACHMENT

Cat Traffic-Accident Recovery Case

Before-and-after treatment X-rays of a cat with pelvic and hip joint injuries (2012)

About 10 weeks

1st → 2nd X-ray

No bone cutting

Treated without metal fixation (Maru Animal Hospital)

KRW 4~5 million

Surgery cost quoted by another animal hospital

2012.05.14

Traffic accident

05.24 · 1st X-ray

Other hospital's opinion

About 10 weeks (72 days)

08.04 · 2nd X-ray

After treatment at Maru

01 Before-and-after X-ray comparison



1st X-ray · 2012.05.24

One femoral head (the head of the thigh bone) is out of its joint socket in the pelvis (acetabulum).



2nd X-ray · 2012.08.04 (after treatment at Maru Animal Hospital)

Both femoral heads sit toward their joint sockets (acetabula).

Visit to another animal hospital · its director's opinion at the time

- Said surgery was needed: cutting the bone of the right leg to fit the pelvis, and fixing the left leg with metal implants.
- Said the cost would be KRW 4~5 million and the prognosis could not be guaranteed.
- Said that if left untreated, the cat could not endure the inflammation, and even if it healed, it would be unable to stand and would need help with urination and defecation.

After treatment at Maru Animal Hospital

- The right leg's bone was not cut; with Maru Animal Hospital's special prescription, bone marrow fluid was secreted dozens of times more, and a joint formed in the pelvic area.
- The left leg was not fixed with metal; a lump formed at the separated part, after which it became fixed.
- According to later news from the owner, the prognosis has been good: there is no inflammation or after-effect, and the cat runs well and controls its urination and defecation.

02 Case information

Accident date	Early morning, May 14, 2012 (traffic accident)
X-ray dates	1st: May 24, 2012 · 2nd: August 4, 2012
Source	Maru Animal Hospital case presentation (PPT), pp. 2~4
Related business-plan section	6.2 · 6.3 A

- Red circles mark the injured areas: the dislocated and fractured bones in the 1st image, and the same areas joined again in the 2nd image.
- The X-ray images and descriptions are taken from Maru Animal Hospital's case presentation (PPT).

ATTACHMENT

Conditions Treated

Conditions treated by Maru Animal Hospital — 10 mental disorders · 10 autoimmune diseases

01 Mental disorders

No.	Condition	Brief description
1	Autism	A developmental disorder with difficulty in social communication and repetitive behaviors and interests
2	Tic disorder	A disorder involving involuntary repetition of the same movements or sounds
3	Hysteria	A disorder in which psychological stress appears as physical symptoms such as paralysis or convulsions
4	Trauma	A condition of persistent anxiety, nightmares and flashbacks after a major accident or shock
5	Panic disorder	A disorder with recurrent episodes of sudden intense anxiety, palpitations and shortness of breath
6	Schizophrenia	A mental disorder marked by hallucinations, delusions and disorganized thinking
7	Bipolar disorder	A mood disorder with alternating periods of elevated and depressed mood
8	Epilepsy	A brain disorder with recurrent seizures caused by abnormal electrical signals in the brain
9	Depression	A mental disorder with prolonged low mood and loss of motivation
10	ADHD	A developmental disorder marked by inattention, hyperactivity and impulsivity

02 Autoimmune diseases

No.	Condition	Brief description
1	Lupus	An inflammatory disease in which the immune system attacks organs throughout the body, such as the skin, joints and kidneys
2	Behçet's disease	A vascular inflammatory disease with recurrent oral and genital ulcers and eye and skin inflammation
3	Wilson's disease	A genetic disorder in which copper cannot be excreted from the body and builds up in the liver and brain
4	Crohn's disease	A chronic inflammatory disease that can occur anywhere in the digestive tract, from mouth to anus
5	Rheumatoid arthritis	A chronic disease in which the immune system attacks the joints, causing swelling, pain and deformity
6	Ankylosing spondylitis	A chronic disease in which the spine and pelvic joints become inflamed and gradually stiffen
7	Sjögren's syndrome	A disease in which the tear and salivary glands are attacked, causing dry eyes and dry mouth
8	Psoriasis & vitiligo	Psoriasis causes red, scaly patches; vitiligo causes loss of skin color
9	Hashimoto's thyroiditis	A disease in which the immune system attacks the thyroid, usually reducing thyroid function
10	Dermatitis, Cushing's syndrome	Dermatitis is itching and inflammation of the skin; Cushing's is a disease of excess cortisol

Condition names and their order follow Maru Animal Hospital's list; the descriptions give the general medical meaning of each condition.

ATTACHMENT

List of Video Materials

5 videos (YouTube) featuring Director Son Hwa-seop or Maru Animal Hospital, and a Naver Cafe

5 videos YouTube videos	2020~2024 Posting period	1 site Naver Cafe "Telomere LAB"
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No.	Title (channel)	Posted · Length	Main content	Link
①	Companion Animal Treatment through Natural Medicine Walpet TV	2021.05.25 12:02	Introduction to companion animal treatment featuring Director Son Hwa-seop. Covers a 4-year-old Maltese, a lumbar disc case, and an abandoned dog hit by a car in March 2015	youtu.be/ VSEiEb2OvXE
②	pet treatment video Son Hwa-seop	2020.05.09 10:25	Compilation of animal treatment scenes. Includes a screen describing a visit on September 3, 2015 (same date as Case 1 in "Spinal Nerve Injury Recovery Cases")	youtu.be/ 3_vdsKU8es
③	Maru Animal Hospital – Interview with Director Son Hwa-seop lifewave-stars on group	2022.11.12 approx. 9:24	Interview in which the director explains the hospitalization cases of 2 cats	youtu.be/ jGyF6EfPqWU
④	Maru Animal Hospital 20200128 Son Hwa-seop	2022.02.25 19:28	Hospital introduction video. The latter part contains broadcast content on dairy cow embryo transfer and canine artificial insemination	youtu.be/ AuWguiRiWCQ
⑤	Director Son Hwa-seop: Dairy Cow Embryo Transfer, MBC Broadcast Maru Animal Hospital	2024.08.09 7:25	Broadcast on an embryo transfer in which a Hanwoo (Korean native) cow gave birth to a dairy calf, and on canine artificial insemination	youtu.be/ 42wxhPDJfFM

Naver Cafe "Telomere LAB" cafe.naver.com/telomerelab

This is the cafe address printed in the Maru Animal Hospital brochure (branch recruitment page). The note "See cafe video" in Case 1 of "Spinal Nerve Injury Recovery Cases" refers to this cafe.

- Posting dates are the dates of upload to YouTube and may differ from broadcast or filming dates.
- Add https:// in front of a link to open it.

ATTACHMENT

DNA EVER Test Products and Prices

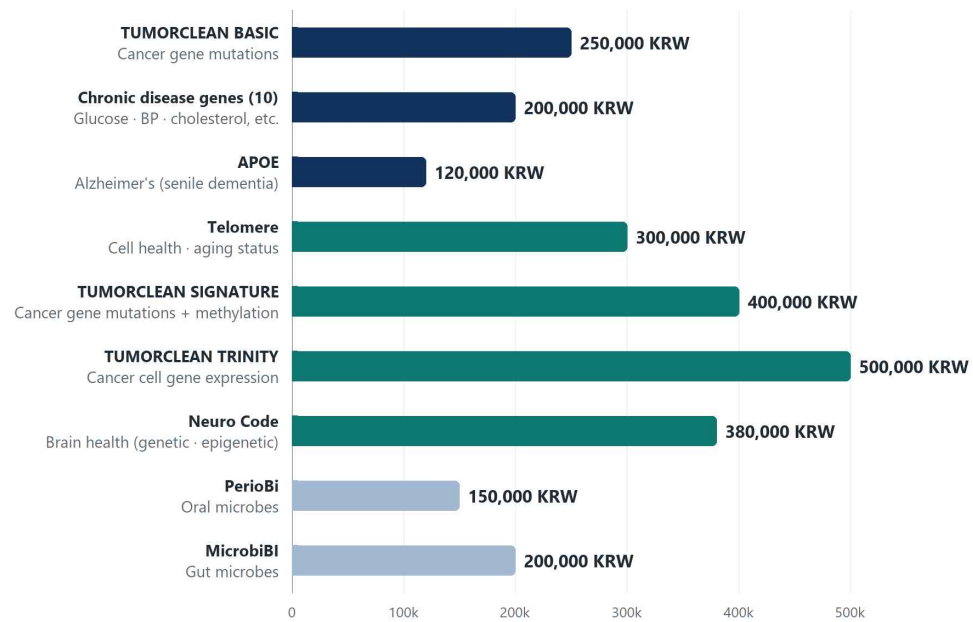
10 genetic · aging · microbiome tests from DNA EVER — test items · samples · consumer prices (excl. VAT)

10 types Test products	KRW 120k–500k Consumer price · excl. VAT	3 categories Inherited genes · Epigenetic status · Microbiome	3 types Pet tests (Maru Animal Hospital)
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01 10 test products and consumer prices

Category	Test name	Test items	Sample	Consumer price (KRW)
Inherited genes	TUMORCLEAN BASIC Cancer gene mutation test	Stomach, lung, colorectal, liver, thyroid, head and neck, pancreatic cancer, leukemia, bladder cancer, cardiovascular disease 11 for men (incl. prostate cancer) · 13 for women (incl. breast, ovarian, uterine cancer)	Blood · Saliva	250,000
	Chronic disease gene test 10 types	Blood sugar, blood pressure, cholesterol, Alzheimer's, liver disease, osteoporosis, rheumatism, atopic dermatitis, coronary artery disease, stroke	Blood · Saliva	200,000
	APOE Dementia risk gene	Alzheimer's (senile dementia)	Blood · Saliva	120,000
Epigenetic status	Telomere Cell health status	Telomere test · cell health and aging status test	Blood · Saliva	300,000
	TUMORCLEAN SIGNATURE Cancer gene mutations + methylation	Same cancer items as BASIC 12 for men (incl. prostate cancer) · 14 for women (incl. breast, ovarian, uterine cancer)	Blood · Saliva	400,000
	TUMORCLEAN TRINITY Cancer cell gene expression test	MAGE · GAGE · PRAME	Dedicated RNA container	500,000
	Neuro Code Genetic, epigenetic brain health	Parkinson's · dementia · Lewy body dementia · stroke	Blood · Saliva	380,000
Microbiome	PerioBi Oral microbes	Oral microbiome	Saliva	150,000
	MicrobiBI Gut microbes	Gut microbiome	Stool	200,000
	Vaginabi Vaginal microbes	Vaginal microbiome	Vaginal swab	Not listed

02 Consumer prices at a glance



Navy: Inherited genes · Teal: Epigenetic status · Light navy: Microbiome (no price listed for Vaginabi)

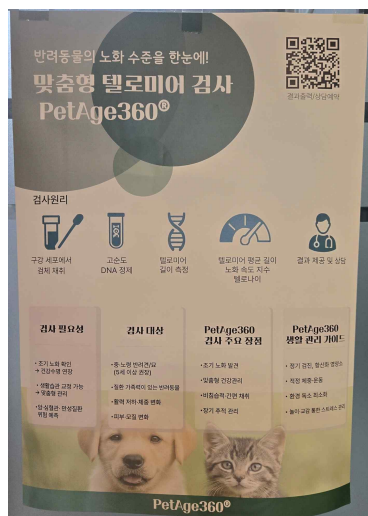
Notes on the data

- Prices are the consumer prices in DNA EVER's printed "Test Product Guide" and exclude value-added tax (VAT). No price is given for Vaginabi in the guide.
- Blood samples are collected in EDTA blood collection tubes. TRINITY uses a dedicated RNA container.

Reference · DNA EVER website

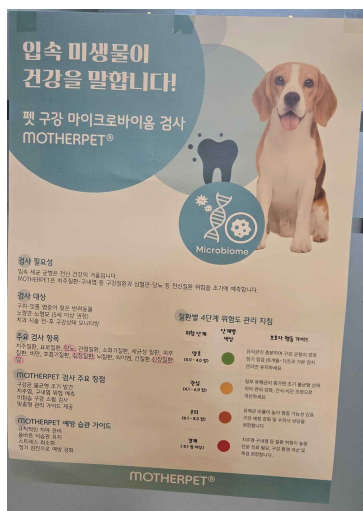
- Genetic testing services on the DNA EVER website: TumorClean (cancer test) · TeloGuard (aging analysis) · NeuroCode (brain health) · TumorClean Trinity (cancer analysis) · PerioBI (oral health) · MicrobiBI (gut health) · AtoClear (skin analysis).
- "TELOGUARD PetAge360" is also printed on the covers of the pet telomere reports (Attachments 03 · 05).

03 3 pet tests — notices in Maru Animal Hospital's consultation room



Telomere test

PetAge360®



Oral microbiome test

MOTHERPET®



Tumor gene test

PetOncoGuard®

Test	Sample · Method	Main content	Risk grading
Telomere test PetAge360®	Oral cell swab collection → high-purity DNA purification → telomere length measurement	Mean telomere length · aging rate index · telomere age. Detecting early aging and managing lifestyle	5 length grades (Very short to Very long)
Oral microbiome test MOTHERPET®	Noninvasive oral swab	Risk prediction for periodontal disease, urinary tract disease, diabetes, joint disease, digestive disease, skin disease, obesity, respiratory disease, heart disease, brain disease, liver disease, kidney disease, cancer, etc.	4 levels · Good 0~4.0 · Caution 4.1~6.0 · Warning 6.1~8.0 · Alert 8.1 or above
Tumor gene test PetOncoGuard®	Oral swab → DNA purification → analysis of 30 gene mutations by Realtime PCR	Main target genes TP53 · KRAS · PIK3CA · APC · PTEN, etc. Early prediction of cancer risk	4 levels · same score ranges

All three tests are recommended for middle-aged and senior pets aged 5 or older. The content is transcribed from the notices posted on the consultation room door; the notices do not list prices.