

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

03/Mar/2025

Clinical note

Date 03/Mar/2025
Time 00:00
Note Author Carlos Sanchez
Significant No
Private No
Active Problems VENTRAL EDEMA

Note Subtype: General

Notes/Comments

Proc: Visual exam and ventral edema palpation.
 Hx: Keepers report no change on size in the past few days but appears to be getting smaller when compared to the largest ventral edema. Reported as eating and acting normally.
 S/O: Elephant is BAR, taking treats well during hydrotherapy; mammary glands are full; ventral edema is about 70cm in length and about 30cm in width; no reaction when palpated and heavily manipulated area; skin is intact. Vulva in intact and the edema is reducing in size as evidenced by not reaching the vulvar area.
 Hydrotherapy performed by keepers: Uneventfully
 A: Ventra edema post partum, stable or maybe slightly improved
 P: Keepers to cont. walking elephant and doign hydrotherapy daily
 Vet staff to cont. with weekly visuals

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time 03/Mar/2025 07:45
Sample Type Wash/Lavage Fluid
Anatomical Source/Tissue Elephant trunk
Collection Method Wash/lavage
Collected By Dimas Dominguez
Reason Disease Monitoring
Exclude from reference intervals No

Sample Quality

Color ~
Color Intensity ~

Initial Holding Conditions

Initial Holding Temp. Chilled/Refrigerated
Initial Holding Duration > 24 hours to <=48 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
03/Mar/2025	~/~	Available	NATELEHER/3/3

Notes

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Request Detail

Date Requested	03/Mar/2025
Requested By	Carlos Sanchez
Laboratory	NATELEHER
Analysis Start Date	03/Mar/2025
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
 TNF: 33.1
 Date tested: 03/06/2025
 E=VR

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
EEHV 1 /ml qPCR	0 vge/rxn	Not calculated	~	~	~	No
EEHV 4 qPCR	0 vge/rxn	Not calculated	~	~	~	No
EEHV 5 qPCR	0 vge/rxn	Not calculated	~	~	~	No

Sample Detail (GSN: S-HBV25-037698)

Collection Date/Time	03/Mar/2025 07:45	Collection Method	Wash/lavage
Sample Type	Wash/Lavage Fluid	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Elephant trunk	Reason	Disease Monitoring
Additives/Preservatives	~	Exclude from reference intervals	No

24/Feb/2025

Clinical note

Date	Time	Note Author
24/Feb/2025	00:00	Carlos Sanchez

Significant Private **Active Problems**
 No No VENTRAL EDEMA

Note Subtype: General

Notes/Comments
 Proc: Visual, palpation and keepers update during ventral edema recheck
 Hx: Keepers think the ventral edema appears to be smaller. Elephant is still receiving hydrotherapy with cold waters.

Visual: Ventral edema appears to be contracting cranially and caudally although is still about 35-40cm wide.
 Palpation: No change on consistency, firm but with fluid content, elephant did not react to palpation
 Skin condition: Intact

A: Ventral edema post-partum, not uncommon in elephants; keepers had been instructed to walk elephant as much as possible and cont. with hydrotherapy
 P: Decrease visuals to every other day

Animal Care Staff Medical Summary
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Calendar Items

Date	Title	Assigned To	Done
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23/Feb/2025

Clinical note

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Date	Time	Note Author
23/Feb/2025	00:00	Josie Rose

Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> VENTRAL EDEMA

Note Subtype: General

Notes/Comments

OPPORTUNISTIC VISUAL OF VENTRAL EDEMA

S/O: Animal care team reports no concerns with dam or calf. Dam is eating and moving appropriately and is bonded well with calf. Compared with this clinician's observation on 16Feb2025, the ventral edema is even more consolidated caudally and "flares out" slightly, suggesting it is flattening. The edema no longer extends significantly cranial to the dam's umbilicus, and is instead more widely spread from medial to lateral to a distance of approximately 18 inches. Per keeper staff, the edema is not overtly painful, there is no skin cracking, and is moderately turgid.

A: Ventral edema; exact etiology is unknown, but is a common postpartum finding in elephant cows

P: Team to continue opportunistic hydrotherapy

JBR 23Feb2025

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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22/Feb/2025

Clinical note

Date	Time	Note Author
22/Feb/2025	00:00	Tina Batek

Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> VENTRAL EDEMA

Note Subtype: General

Notes/Comments

Case Update: Ventral Edema

History: Keepers report that ventral edema appears to be static to slightly larger in appearance ("hangs lower"); concern level remains low. No signs of discomfort or change in skin noted. Normal maternal behaviors toward calf.

S/O: Subjectively, the area of edema appears to be similar in size to what CRS described 17Feb25 - The area extends from just caudal to the umbilicus to just cranial to the entrance of the vulva and appears more pendulous than initially noted. On palpation, there is more give than what was noted 16Feb25. No reaction to palpation. No skin cracks, erythema or evidence of lesions present.

A: Ventral edema: mild to moderate, non-painful.

P:

- Continue BID hydrotherapy
- Will discuss with vet staff, but can likely extend time between visuals
- Systemic medication not indicated
- Topical ointment not indicated

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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17/Feb/2025

Clinical note

Date	Time	Note Author
17/Feb/2025	00:00	Carlos Sanchez

Significant	Private	Active Problems

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

No No VENTRAL EDEMA

Note Subtype: General

Notes/Comments

Proc: Visual and keeper update as follow up of ventral edema.

Hx: Keepers report that ventral edema appears to be static; female taking care of the calf appropriately.

Visual: Observed from the visitor side on the FH area; subjectively, the area of edema appears to be even larger (more pendulous) than last time CRS visualized and palpated it. The area now extends from the umbilical cord to the entrance of the vulva. The area is also more pendular with one inward ridge in the pendulous area. Subjectively it also appears to have widened.

On palpation elephant presents no reaction; on close examination no skin cracks, erythema or evidence of lesions present.

A: Ventral edema, mild to moderate now; non-painful.

P: Staff to continue with edema BID taking care of not getting the calf wet

Vets visuals daily

Due to the calf being nursing now, systemic meds (diuretics, anticoagulants, etc) are not indicated

Due to calf rubbing in area, topical ointments are not indicated at this point

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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16/Feb/2025

Clinical note

Date	Time	Note Author
16/Feb/2025	00:00	Josie Rose
Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> VENTRAL EDEMA

Note Subtype: General

Notes/Comments

OPPORTUNISTIC TACILE PALPATION OF VENTRAL EDEMA

S/O: Animal care team reports no concerns with dam or calf. Dam is eating and moving appropriately and is bonded well with calf. Compared with this clinician's observation on 11Feb2025, the ventral edema is more consolidated caudally. The edema no longer extends significantly cranial to the dam's umbilicus, and is instead more widely spread from medial to lateral to a distance of approximately 18 inches. Tacile palpation of ventral edema performed with behavioral conditioning. The edema is not overtly painful, there is no skin cracking, and is moderately turgid.

A: Ventral edema; exact etiology is unknown, but is a common postpartum finding in elephant cows

P: Team to continue opportunistic hydrotherapy

JBR 16Feb2025

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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15/Feb/2025

Clinical note

Date	Time	Note Author
15/Feb/2025	00:00	Tina Batek

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Significant Private **Active Problems**
 No No VENTRAL EDEMA

Note Subtype: General

Notes/Comments

Case Update: Ventral Edema

S/O: Ventral edema located caudal to umbilicus appears subjectively wider in appearance, but with more caudal consolidation. Area is firm on palpation. No evidence of erythema or cracks in skin. Elephant does not react to palpation. Overall, appearance remains mild. Keepers report good compliance with hydrotherapy. They have no other concerns with dam or calf.

A: Ventral edema, commonly observed in elephant dam post-birth; mild

P: Continue with BID cold hydrotherapy and daily vet monitoring

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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11/Feb/2025

Clinical note

Date **Time** **Note Author**
 11/Feb/2025 00:00 Josie Rose

Significant **Private** **Active Problems**
 No No VENTRAL EDEMA

Note Subtype: General

Notes/Comments

OPPORTUNISTIC VISUAL

S/O: Observed both dam (94122) and calf (C50004) in Forest Hall. Both elephants are bright, alert, and responsive. Calf's abdomen is becoming "round," suggesting adequate milk intake. Calf appropriately follows dam, and moves in a coordinated manner. Dam has visible mild ventral edema, extending from ~1 ft cranial to the umbilical region to the inguinal region. Edema is ~12-15 cm thick. Spoke with curator SL and there are no concerns about cracking or damage to the skin.

A: Mild ventral edema (94122); common phenomenon observed postpartum in dams, etiology is not fully described

Appropriately bonded dam and calf

P: Team will attempt hydrotherapy this afternoon.

JBR 11Feb2025

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

10/Feb/2025

Clinical note

Date **Time** **Note Author**
 10/Feb/2025 00:00 Carlos Sanchez

Significant **Private** **Active Problems**
 No No VENTRAL EDEMA

Note Subtype: General

Notes/Comments

Proc: Visual and update as follow up of ventral edema.

Hx: Keepers report that ventral edema appears to be static; female taking care of the calf appropriately.

Visual: Observed from the visitor side on the FH area; subjectively, the area of edema appears to be larger than last time CRS visualized (and palpated) it. The area now extends from the umbilical cord to about 10inches the vulva. The area is linear and does not appear to have widened.

A: Ventral edema, still mild but appears to have extended (subjective).

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

P: Staff to continue with edema BID taking care of not getting the calf wet

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

09/Feb/2025

Clinical note

Date	Time	Note Author
09/Feb/2025	00:00	Jordan Butler
Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> VENTRAL EDEMA

Note Subtype: General

Notes/Comments

Visual exam
S/O: Ventral edema located caudal to the umbilicus remains largely unchanged. Keepers report that it appears the same as yesterday and report no other concerns.
 Calf was seen nursing well with mom during visual.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
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08/Feb/2025

Clinical note

Date	Time	Note Author
08/Feb/2025	00:00	Tina Batek
Significant	Private	Active Problems
No	No	<input checked="" type="checkbox"/> VENTRAL EDEMA

Note Subtype: General

Notes/Comments

Visual Exam
Hx: Mild ventral edema noted on opportunistic exam yesterday. Keepers were able to treat with cold hydrotherapy this AM.
S/O: Ventral edema located caudal to the umbilicus remains largely unchanged. Area is soft on palpation. No evidence of erythema. Elephant does not react to palpation. Overall, appearance remains mild.
A: Ventral edema, commonly observed in elephant dam post-birth; acute, mild.
P: Continue with cold hydrotherapy and daily vet monitoring.

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

07/Feb/2025

Clinical note

Date	Time	Note Author
07/Feb/2025	00:00	Carlos Sanchez

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Significant **Private** **Active Problems**
 No No VENTRAL EDEMA

Note Subtype: General

Notes/Comments

Opportunistic visual while checking calf. Dx: Ventral edema, mild.
 Hx: Mother and calf are bonding very well and mother is feeding the calf appropriately. No concerns reported by the keeper.

PEX:
 S/O: During visual of calf it was noted that this female presented a mild ventral edema located caudal to the umbilicus, the area is soft in palpatin (R/O fluid) and about 25cm in length by 10-15cm in width. Elephant did not react to veterinary palpation.

A: Ventral edema, commonly observed in elephant female post-birth; acute, mild.
 P: Although hydrotherapy with cold water would be indicated for this condition; with current temperatures (winter) and the calf spending large amount of time undr the belly of the mother; this may not be possible w/o getting the calf wet
 Veterinary monitoring daily

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Diagnoses & Procedure

Clinical Sign

VENTRAL EDEMA

Onset Date

07/Feb/2025 00:00

Responsible Clinician

Carlos Sanchez

Resolution Date

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Notes/Comments

03/Feb/2025

Clinical note

Date **Time** **Note Author**
 03/Feb/2025 00:00 Carlos Sanchez

Significant **Private** **Active Problems**
 No No ~

Note Subtype: General

Notes/Comments

Proc: Visual at +/- 36hrs post giving birth;iCa/TCa testing to be D/C.
 Hx: Elephant gave birth at around 4:30 pm on 02/01/2025; birth was smooth - refer to CAB notes in ZIMS

Visual: Elephant is with calf with access to corral and also to the day house; mother moving back and forth (and calf following her). Eating and acting normally; curator SL reported urine still presents a red-tinge which was indicated to him that this is normal.
 No evidence of ventral or vulvar edema noted and manager confirmed this observation.

A: +/- 36hr check: normal female taking care of calf uneventfully
 P: Cont. monitoring
 Ca (iCa and TCa) screening will be discontinued as of today; this elephant remained normocalcemic throughoug gestation and even few hours before delivery confirming that there was no need for Ca supplementation.

Animal Care Staff Medical Summary

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Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

01/Feb/2025

Clinical note

Date	Time	Note Author
01/Feb/2025	00:00	Tina Batek

Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Proc: Transrectal Ultrasound and Bloodwork Results

History: Pregnant elephant with routine endocrine monitoring - progesterone reached baseline 30Jan2025. Early signs of discomfort (restlessness) and vulvar discharge. Elephant otherwise reported to be normal with good appetite and eliminations

Proc: Transrectal US with convex probe

Management: tethers and positive reinforcement - uneventful

US: Convex probe without extension

Observed: open cervix with fetal feet surrounded by amniotic fluid

Phone Consult with Ellen Wiedener, VMD, DACVIM (LAIM), DACZM, DECZM (ZHM): Confirmed visualization of fetal feet via saved image - expect parturition within the next 24-48 hours

Total Calcium (Catalyst One): 9.6 mg/dL

Ionized Calcium (iStat Chem8+): 1.28 mmol/L

Interpretation: Total calcium and ionized calcium are within ZIMS RI

HCT: 42%; 1+ anisocytosis

TP: 7.8 g/dL (refractometer)

WBC: Procyte 9.75 K/ul (estimate); Het 27%, bands 0%, Lymphs 10%, Monos 63%, Eos 0%, Baso 0%. Morphology: few reactive lymphs, mod activated monos

PLT: 561,000; 1+ enlarged

Interpretation: Normal WBC and M:L for this elephant

Assessment: Pregnant elephant, baseline progesterone (3rd day); open cervix - normal progression, normal calcium (tCa and iCa)

Plan: Cont. with 24 observations by elephant keepers and 1 veterinarian

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Clinical note

Date	Time	Note Author
01/Feb/2025	00:00	Tina Batek

Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Parturition Notes:

History: Pregnant elephant, baseline progesterone (3rd day); open cervix with fetal feet visualized on transrectal ultrasound this AM

15:02: Wide-based stance, followed by production of a few fecal balls (normal size)

15:04: Wide-based stance, followed by production of additional feces, then urine (normal appearance). **Abdominal contraction and "tail flagging" noted in addition to appearance of bulge ventral to tail.** Elephant closed into corral

15:20: Visual exam. Subtle forward stretching with additional abdominal contractions (mild). Bulge remains apparent. Overall elephant appears calm and mostly comfortable

15:50: Fecal production (normal size)

16:10: Elephant remains comfortable, no increase in vulvar discharge. Some side stepping and subtle abdominal contractions. Bulge remains apparent. Normal appetite

16:23: Urine production (small amount)

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

16:24: Signs of discomfort: high-stepping, tail flagging, tense abdomen

16:25: **Wide-based stance with intensified contractions.** Additional "tail-flagging," but remains relaxed

16:27: Tense abdomen with intensified contractions - elephant appears to be "pushing."

16:29: Delivery of calf; posterior presentation with hind limbs extended - allantois ruptured on contact with the ground

16:29: Dam begins to assist with removal of allantois - head freed shortly after

16:31: Calf sternal - assisted (unassisted at 16:40)

16:31: Dam continues to assist calf with standing; no evidence of aggression from dam

16:40: calf attempts to stand

16:41: Calf standing - assisted

17:11: Calf walking (coordinated walk at 17:05)

17:22: Calf vocalizations

18:04: Calf attempts to nurse

18:53: Calf sleeping. **Respiratory rate 16 brpm.**

19:08: Passing of meconium

19:09: Delivery of afterbirth; appears whole - total weight 15.9 kg. Normal on inspection. Sections of umbilical cord and placenta cut and placed into ziplock bags for submission to OVDL

21:00: Visual inspection of umbilicus (no findings of concern); umbilicus sprayed with betadine

22:00: Successful nursing

Assessment: Successful delivery of apparently healthy calf (hands-on exam pending); Dam appears normal post-parturition
Plan: Allow for continued bonding of dam and calf; Vulvar discharge from dam to be expected over the next few days

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time	01/Feb/2025 00:00
Sample Type	Serum
Anatomical Source/Tissue	EAR VEIN
Collection Method	Phlebotomy
Collected By	Dimas Dominguez
Reason	~
Exclude from reference intervals	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Additional Characteristics	~
Degraded	No

Initial Holding Conditions

Initial Holding Temp.	Ambient
Initial Holding Duration	<= 10 hours

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Low activity

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
01/Feb/2025	~/~	Available	PORTLAND/2/2

Notes

KH

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Sample

Sample Detail

Collection Date/Time	01/Feb/2025 00:00
Sample Type	Whole Blood
Anatomical Source/Tissue	EAR VEIN
Additives/Preservatives	EDTA
Collection Method	Phlebotomy
Collected By	Dimas Dominguez
Reason	~
Exclude from reference intervals	No

Sample Quality

Additional Characteristics	~
Degraded	No

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Low activity

Initial Holding Conditions

Initial Holding Temp.	Ambient
Initial Holding Duration	<= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
01/Feb/2025	~/~	Available	PORTLAND/20/20

Notes

KH

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time	01/Feb/2025 00:00
Sample Type	Plasma
Anatomical Source/Tissue	EAR VEIN
Additives/Preservatives	Heparin, Lithium
Collection Method	Phlebotomy
Collected By	Dimas Dominguez
Reason	~
Exclude from reference intervals	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Additional Characteristics	~
Degraded	No

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Low activity

Initial Holding Conditions

Initial Holding Temp.	Ambient
Initial Holding Duration	<= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
01/Feb/2025	~/~	Available	~/~/~

Notes

KH

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Sample Detail

Collection Date/Time	01/Feb/2025 00:00
Sample Type	Whole Blood
Anatomical Source/Tissue	EAR VEIN
Additives/Preservatives	Heparin, Lithium
Collection Method	Phlebotomy
Collected By	Dimas Dominguez
Reason	Diagnostic
Exclude from reference intervals	No

Sample Quality

Additional Characteristics	~
Degraded	No

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Low activity

Initial Holding Conditions

Initial Holding Temp.	Ambient
Initial Holding Duration	<= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
01/Feb/2025	~/~	Available	PORTLAND/11/11

Notes

KH

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Test Request Detail

Date Requested	01/Feb/2025
Requested By	Carlos Sanchez
Analysis Start Date & Time	01/Feb/2025 00:00
Analysis By	Kelli Harvison
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

KH

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Total Protein (R)	7.8 g/dL	Global sp RI: 6.1 - 9.1 7.8 [7.9] N=211 (25)	~	No	No	No
Ca	9.6 mg/dL	Global sp RI: 9.1 - 11.7 10.4 [10.4] N=1719 (122)	~	No	No	No

Sample Detail (GSN: S-HBV25-037596)

Collection Date/Time	01/Feb/2025 00:00	Collection Method	Phlebotomy
Sample Type	Serum	Collected By	Dimas Dominguez
Anatomical Source/Tissue	EAR VEIN	Reason	~
Additives/Preservatives	~	Exclude from reference intervals	No

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Request Detail	
Date Requested	01/Feb/2025
Requested By	Carlos Sanchez
Analysis Start Date & Time	01/Feb/2025 00:00
Analysis By	Kelli Harvison
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
KH

Test Requests & Test Results						
Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Na	129 mEq/L	Global sp RI: 122 - 136 129 [129] N=70 (25)	~	No	No	No
K	4.2 mEq/L	Global sp RI: 3.3 - 5.2 4.3 [4.3] N=68 (25)	~	No	No	No
Chloride	90 mEq/L	Global sp RI: 86 - 99 92 [92] N=52 (15)	~	No	No	No
Total CO2	28 mEq/L	Global sp RI: 19.5 - 34.1 27.2 [28.0] N=58 (22)	~	No	~	No
BUN	6 mg/dL	Global sp RI: 4.0 - 17.1 10.0 [9.5] N=135 (43)	~	No	No	No
Creatinine	1.1 mg/dL	Basic Stats: ~ - ~ 1.1 [1.1] N=28 (3)	~	No	~	No
Glucose	110 mg/dL	Global sp RI: 60 - 141 91 [87] N=62 (24)	~	No	No	No
ion Ca ⁺⁺	1.28 mmol/L	Global sp RI: 1.16 - 1.42 1.30 [1.30] N=53 (21)	~	No	No	No
Anion Gap	16 mEq/L	Global sp RI: 10.2 - 22.9 17.1 [17.1] N=42 (14)	~	No	~	No
HCT	41 %	Global sp RI: 27.0 - 43.0 34.7 [34.0] N=3510 (100)	~	No	No	No
HGB [a]	13.9 g/dL	Global sp RI: 9.4 - 15.1 12.0 [11.9] N=5401 (140)	~	No	No	No

Sample Detail (GSN: S-HBV25-037597)			
Collection Date/Time	01/Feb/2025 00:00	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Dimas Dominguez
Anatomical Source/Tissue	EAR VEIN	Reason	Diagnostic
Additives/Preservatives	Heparin, Lithium	Exclude from reference intervals	No

Test & Result

Test Request Detail	
Date Requested	01/Feb/2025
Requested By	Carlos Sanchez
Analysis Start Date & Time	01/Feb/2025 00:00
Analysis By	Kelli Harvison
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Notes/Comments

Cell morphology

Platelets:

Clumping: minimal
Enlarged: 1+
Other:

Erythrocytes:

nRBC:0
Anisocytosis:1+
Polychormasia:
Hypochromasia:

Poikilocytosis:

Target cells: 0-1+
Schistocytes:
Keratocytes:
Spherocytes:
Other:

Leukocytes:

Heterophils:

Band heterophils # seen: 1 in 200 count and 2 slide scan
Band precursor # seen: 0
Hypersegmentation: none
Toxicity: none

Lymphocytes:

Reactivity: few
Enlarged: none
Granular cytoplasm: few
Nucleoli: none

Monocytes:

Activation: moderate
Enlarged: few
Vacuolated: moderate
Excessively vacuolated: few

Notes:

E=KH

Entered by:

Grading Scale:

- 1+ (1-2/hpf)
- 2+ (3-9/hpf)
- 3+ (10-20/hpf)
- 4+ (>20/hpf)

- Few (1-5% of that cell line)
- Moderate or Mod (5-15% of that cell line)
- Many (>14% of that cell line)

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Exclud. from RI	Clinical Finding	Reviewed
HCT	42 %	Global sp RI: 27.0 - 43.0 34.7 [34.0] N=3510 (100)	~	No	No	No
Est. WBC count	9.75 *10 ³ cells/μL	Global sp RI: 0 - 19 8 [8] N=134 (21)	~	No	~	No
Est. Platelets	561,000		~	~	~	No
Neutrophil % [m]	27 %	Global sp RI: 11.0 - 45.0 25.1 [25.0] N=648 (61)	~	No	No	No
Band % [m]	0 %	Global sp RI: 0.0 - 3.8 0.3 [0.0] N=1099 (53)	~	No	No	No
Lymphocyte % [m]	10 %	Global sp RI: 2.0 - 34.3 15.9 [15.0] N=2453 (71)	~	No	No	No
Monocyte % [m]	63 %	Global sp RI: 10.7 - 77.5 54.1 [57.0] N=2606 (83)	~	No	No	No
Eosinophil % [m]	0 %	Global sp RI: 0.0 - 6.0 2.1 [2.0] N=2367 (78)	~	No	No	No
Basophil % [m]	0 %	Global sp RI: 0.0 - 1.0 0.2 [0.0] N=1391 (69)	~	No	No	No
RBC [a]	3.07 *10 ⁶ cells/μL	Global sp RI: 1.96 - 3.44 2.66 [2.64] N=5370 (138)	~	No	No	No
HCT [a]	33.6 %	Global sp RI: 24.1 - 41.7 31.9 [31.6] N=5209 (125)	~	No	No	No
HGB [a]	14.6 g/dL	Global sp RI: 9.4 - 15.1 12.0 [11.9] N=5401 (140)	~	No	No	No
MCV	109.4 fL	Global sp RI: 99.6 - 146.0 120.5 [120.2] N=5024 (123)	~	No	No	No
MCH	47.6 pg	Global sp RI: 37.0 - 59.0 45.2 [45.0] N=4782 (114)	~	No	No	No
MCHC	43.5 g/dL	Global sp RI: 31.0 - 46.7 37.8 [38.2] N=4812 (117)	~	No	No	No
RDW	14.3 %	Global sp RI: 12.8 - 18.0 14.6 [14.5] N=4043 (62)	~	No	~	No
Cor Retic % [a]	0.4 %	Global sp RI: 0.0 - 0.5 0.2 [0.2] N=52 (5)	~	No	~	No
Cor Retic count [a]	12.9 *10 ³ cells/μL	Global sp RI: 3.378 - 12.723 7.159 [6.900] N=230 (9)	High	No	~	No
Mean Plate. Vol.	8.9 fL	Global sp RI: 4.3 - 9.5 6.9 [6.5] N=3389 (47)	~	No	No	No
Plateletcrit	0.15 %	Not calculated	~	~	~	No

Sample Detail (GSN: S-HBV25-037594)

Collection Date/Time	01/Feb/2025 00:00	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Dimas Dominguez
Anatomical Source/Tissue	EAR VEIN	Reason	~
Additives/Preservatives	EDTA	Exclude from reference intervals	No

31/Jan/2025

Clinical note

Date	Time	Note Author
31/Jan/2025	00:00	Carlos Sanchez
Significant	Private	Active Problems

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

No No ~

Note Subtype: General

Notes/Comments

Proc: Visual, keeper and supervisor update; start of 24hr watch from keepers and veterinary staff as of yesterday. As of yesterday late-afternoon, this elephant was placed inside the corral isolated from the other 2 females (access via the corral bars); during the day the females will remain together and when keepers notice first signs of active delivery this female will be moved to the corral by itself.

Hx: Manager SL reported this am that more bloody mucus was found on floor of corral this AM. On a photo that he showed, the mucus was semiformed and hemorrhagic, it appeared too small to be the mucous plug. When submitted material was covered in sand and feces and flat. Unable to confirm that it was the mucous plug.

Overnight evaluation via Ocularis (camera) system: CRS stayed overnight and maintained constant visual on elephant remotely via camera; for the most part of the evening and night; this elephant presented normal behavior, showed appetite, and outputs (observed urinating several times and defecating a couple of times). This elephant slept very soundly from about 2:45am to almost 4:00am laying down on left lateral. Early in a.m this elephant presented swaying behavior that is not normally present with elephant lifting the right leg and staying with that leg lifted for about 30-40 secs (unusual). This elephant showed several bouts of open mouth behavior which are possibly associated to gestation discomfort.

AM Visual and keeper update: Elephant was visualized in corral with other 2 females, observed eating hay; during the visual small amount of thick red-tinged mucus observed from vulva. Fetal movement noted on right side. Keepers report that overall subtle indication of early delivery are happening (open mouth behavior, tossing sand to her legs or vulva (likely due to discharge).

Hormone update per CS (endocrine lab): Rose-Tu's progesterone is at baseline (< 200 pg/ml) again today. While the value went up slightly from yesterday, this is natural variation. The "pooled" baseline also went up slightly, so this accounts for some of the increase too.

PM Update: No additional changes reported by staff at the time record is written (4:19pm)

Assessment: Pregnant elephant, baseline progesterone (2nd day); early observation of delivery behavior but the mucus observed today cannot be confirmed to be the mucus plug (it would be expected labor to start next day and up to 3 days later)

Plan: Cont. with 24 observations by elephant keepers and 1 veterinarian
Calf exam, emergency supplies moved to elephant house yesterday evening

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

30/Jan/2025

Clinical note

Date	Time	Note Author
30/Jan/2025	00:00	Tina Batek
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Case Update: Pregnant Elephant

S/O: Manager SL reports that mucus was found on floor of corral this AM. Mucus was mildly hemorrhagic in appearance (submitted for cytology). Elephant is otherwise normal - normal behavior, appetite, and outputs.

Cytology:

- Bacteria: TNTC, mixed flora
- Spore-forming bacteria: none seen
- RBC: 2-3+
- WBC: 1+; mostly het, occ macro
- Epithelial: 1+
- Fungal: none seen
- Amorphous debris: plenty

Interpretation: suspect bacterial contamination (sample found on ground). Unknown clinical significance of RBCs.

AM Visual: Elephant was visualized in corral, actively eating hay. No discharge visualized on vulva. No signs of discomfort. Fetal movement noted on right side.

PM Update: Daily progesterone monitoring since yesterday, 29Jan2025. This afternoon, vet staff were alerted that progesterone level had reached baseline. Manager SL reports mild aggritation, but that elephant is otherwise normal. Keepers were able to collect colostrum from both mammary glands, both patent.

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Phone Consult with Ellen Wiedener, VMD, DACVIM (LAIM), DACZM, DECZM (ZHM): Passing of mild amount of mucohemorrhagic discharge is normal finding. Once progesterone levels reach baseline, parturition may take up to 14 days. Passing of the mucus plug marks the beginning of parturition, can be expected within 24 hours. However, mucus plug can be missed if other fluids are passed.

Consult with Nadja Wielebnowski, Ph.D (Director of Animal Welfare and Research): Progesterone was monitored for previous pregnancies. First parturition event occurred 4 days after elephant reached baseline levels. Second parturition event occurred 3 days after baseline. Nadja hypothesizes that this timeline may shorten with each additional parturition event.

Assessment: Pregnant elephant, baseline progesterone

Plan: Begin 24/7 monitoring

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time 30/Jan/2025 08:00
Sample Type Other fluid, secretion or exudate
Anatomical Source/Tissue Vagina
Additives/Preservatives ~
Collection Method Other
Collected By Dimas Dominguez
Reason Diagnostic
Exclude from reference intervals No

Sample Quality

Color Red
Color Intensity dark
Clarity Flocculent/Particulates
Consistency Coagulated
Degraded No

Initial Holding Conditions

Initial Holding Temp. Chilled/Refrigerated
Initial Holding Duration <= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
30/Jan/2025	~/~	Consumed	PORTLAND/1/1

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Test Request Detail

Date Requested 30/Jan/2025
Requested By Tina Batek
Analysis Start Date & Time ~
Analysis By Heather Brittingham
Analysis Equipment ~
Insufficient Sample No

Sample Quality

Color Red
Color Intensity dark
Clarity Flocculent/Particulates
Consistency Coagulated
Additional Characteristics ~
Degraded No

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Notes/Comments

CYTOLOGY FINDINGS:

Bacteria: TNTC mixed flora

Spore forming bacteria: none seen

RBC: 2-3+

WBC: 1+ mostly inflammatory cells - heterophils and occ macrophages

Epithelial cells: 1+

Fungal elements: none seen

Amorphous debris: plenty

Notes:

Entered by: HB

Grading Scale:

- NPF or none seen = negative
- 1+ rare = 1-10 PER SLIDE
- 2+ few = 1-2/hpf
- 3+ moderate = 3-20/hpf
- 4+ many = >20/hpf
- TNTC = too numerous to count

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Mod. Wr-Giemsa Stain	see notes		~	~	~	No

Sample Detail (GSN: S-HBV25-037601)

Collection Date/Time	30/Jan/2025 08:00	Collection Method	Other
Sample Type	Other fluid, secretion or exudate	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Vagina	Reason	Diagnostic
Additives/Preservatives	~	Exclude from reference intervals	No

28/Jan/2025

Clinical note

Date	Time	Note Author
28/Jan/2025	00:00	Tina Batek
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Lab (Ca and iCa) Results for January 28, 2025 Hx: iCa/TCa will be monitored weekly until calf delivery

Total Calcium (Catalyst One): 9.5 mg/dL

Ionized Calcium (iStat Chem8+): 1.28 mmol/L

Interpretation: Total calcium and ionized calcium are within ZIMS RI

A: iCa and TCa are within ZIMS RI for the species

P: Continue routine total calcium and ionized calcium monitoring once a week until calf delivery

Animal Care Staff Medical Summary

~

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time	28/Jan/2025 08:36
Sample Type	Plasma
Anatomical Source/Tissue	Left auricular vein
Additives/Preservatives	Heparin
Collection Method	Phlebotomy
Collected By	Heather Brittingham
Reason	Recheck/Follow-up
Exclude from reference intervals	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Additional Characteristics	~
Degraded	No

Initial Holding Conditions

Initial Holding Temp.	Ambient
Initial Holding Duration	<= 10 hours

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
28/Jan/2025	~/~	Available	PORTLAND/1/1

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time	28/Jan/2025 08:36
Sample Type	Whole Blood
Anatomical Source/Tissue	Left auricular vein
Additives/Preservatives	Heparin
Collection Method	Phlebotomy
Collected By	Heather Brittingham
Reason	Recheck/Follow-up
Exclude from reference intervals	No

Sample Quality

Additional Characteristics	~
Degraded	No

Initial Holding Conditions

Initial Holding Temp.	Ambient
Initial Holding Duration	<= 10 hours

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
28/Jan/2025	~/~	Available	PORTLAND/11/11

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Request Detail

Date Requested	28/Jan/2025
Requested By	Tina Batek
Analysis Start Date & Time	28/Jan/2025 09:30
Analysis By	Heather Brittingham
Analysis Equipment	IDEXX
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
E =RW

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Ca	9.5 mg/dL	Global sp RI: 8.7 - 12.7 10.5 [10.4] N=999 (48)	~	No	No	No

Sample Detail (GSN: S-HBV25-037578)

Collection Date/Time	28/Jan/2025 08:36	Collection Method	Phlebotomy
Sample Type	Plasma	Collected By	Heather Brittingham
Anatomical Source/Tissue	Left auricular vein	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin	Exclude from reference intervals	No

Test & Result

Test Request Detail

Date Requested	28/Jan/2025
Requested By	Tina Batek
Analysis Start Date & Time	28/Jan/2025 09:30
Analysis By	Heather Brittingham
Analysis Equipment	VetScan i-STAT 1
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
E = RW

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Exclud. from RI	Clinical Finding	Reviewed
Na	131 mEq/L	Global sp RI: 122 - 136 129 [129] N=70 (25)	~	No	No	No
K	4.4 mEq/L	Global sp RI: 3.3 - 5.2 4.3 [4.3] N=68 (25)	~	No	No	No
Chloride	91 mEq/L	Global sp RI: 86 - 99 92 [92] N=52 (15)	~	No	No	No
Total CO2	28 mEq/L	Global sp RI: 19.5 - 34.1 27.2 [28.0] N=58 (22)	~	No	~	No
BUN	6 mg/dL	Global sp RI: 4.0 - 17.1 10.0 [9.5] N=135 (43)	~	No	No	No
Creatinine	0.9 mg/dL	Basic Stats: ~ - ~ 1.1 [1.1] N=28 (3)	~	No	~	No
Glucose	76 mg/dL	Global sp RI: 60 - 141 91 [87] N=62 (24)	~	No	No	No
ion Ca++	1.28 mmol/L	Global sp RI: 1.16 - 1.42 1.30 [1.30] N=53 (21)	~	No	No	No
Anion Gap	17 mEq/L	Global sp RI: 10.2 - 22.9 17.1 [17.1] N=42 (14)	~	No	~	No
HCT	43 %	Global sp RI: 27.0 - 43.0 34.7 [34.0] N=3510 (100)	~	No	No	No
HGB [a]	14.6 g/dL	Global sp RI: 9.4 - 15.1 12.0 [11.9] N=5401 (140)	~	No	No	No

Sample Detail (GSN: S-HBV25-037579)

Collection Date/Time	28/Jan/2025 08:36	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Heather Brittingham
Anatomical Source/Tissue	Left auricular vein	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin	Exclude from reference intervals	No

24/Jan/2025

Clinical note

Date	Time	Note Author
24/Jan/2025	00:00	Tina Batek
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

TRANSABDOMINAL ULTRASOUND:

Proc: Transabdominal US, performed in ERD with veterinarian CAB.

S/O: Elephant's progesterone profile has been consistent with continued pregnancy (We have entered birth window; started 16Jan25). Monitoring of TCa and iCa started on 14Jan25 - values have been normal. Staff do not report concerns with behavior patterns or discharge. Elephant restrained in ERD with tethers and behavioral conditioning, accepting food reinforcement readily throughout the session.

Transabdominal ultrasound performed today, focused on R flank (mid-to-caudal abdomen). Large amount of placental tissue visualized, with amnion deep to this layer. Able to visualize ribs and spine in more lateral views.

A: Pregnant elephant - viable pregnancy
P: Cont weekly transabdominal US of elephant
Cont. monitoring hormones, TCa, and iCa as scheduled

CAB

Animal Care Staff Medical Summary

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Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Calendar Items			
Date	Title	Assigned To	Done
~	~	~	~

22/Jan/2025

Clinical note

Date	Time	Note Author
22/Jan/2025	00:00	Tina Batek
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

PROCEDURE: Routine PMP exam

Hx: This elephant presents for routine PMP exam. Elephant's progesterone profile has been consistent with continued pregnancy; normal TCa and iCa levels. Elephant has history of right maxillary molar impaction, but no other significant medial issues. Current weight is 3490 kg (7678 pounds). Nutritionist JDA assessed this animal at BCS of 6/9 in Dec 2024. Keepers report no concerns with this animal's appetite, activity level, behavior, urination, and defecation. No fecal gravy noted since Aug 2024.

O:
RESTRAINT: Behavioral restraint

EXAM:
Weight: 3490 kg (16Jan2025)
BCS: 6/9
MM: pink, moist

Gen: BAR, cooperative with keeper and vet staff

EENT: Anterior chamber clear OU, lens WNL OU; Ears: patent canals with no discharge AU; Nares/Trunk: Clear with no malodor or discharge

Oral cavity: No erosions, ulcerations, masses, petechiae noted

Dental exam: No lesions of maxillary molars; unable to visualize entirety of mandibular molars (general impression: normal wear)

Resp: Eupneic

Integ: Skin: Good condition, no lesions, masses, or ectoparasites noted; Feet: Palmar and plantar feet in good condition; vertical cracks in nails of RRD3 and RRD4

MSK: Well muscled; normal ROM of all joints during stretching and limb flexion for foot inspection

GI: Lateral extension of right abdominal wall due to pregnancy.

UG: Full vulvar exam not performed, no discharge noted. Mammary glands are prominent, no discharge noted.

Rectal: Not performed

Neuro: Appropriate mentation

A: Pregnant female; apparently healthy

P: Continue PMP schedule. Radiographs and routine blood work schedule for later this month (CBC, Chem, CZE, SAA, Haptoglobin, Serum vitamin E)

Animal Care Staff Medical Summary

~

Calendar Items			
Date	Title	Assigned To	Done
~	~	~	~

21/Jan/2025

Clinical note

Date	Time	Note Author
21/Jan/2025	00:00	Tina Batek
Significant	Private	Active Problems
No	No	~

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Note Subtype: General

Notes/Comments

Lab (Ca and iCa) Results for January 21, 2025 Hx: iCa/TCa will be monitored weekly until calf delivery

Total Calcium (Catalyst One): 9.9 mg/dL
Ionized Calcium (iStat Chem8+): 1.31 mmol/L
 Interpretation: Total calcium and ionized calcium are within ZIMS RI

A: iCa and TCa are within ZIMS RI for the species
P: Continue routine total calcium and ionized calcium monitoring once a week until calf delivery

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time 21/Jan/2025 08:30
Sample Type Whole Blood
Anatomical Source/Tissue Auricular vein(not specified)
Additives/Preservatives Heparin
Collection Method Phlebotomy
Collected By Dimas Dominguez
Reason Recheck/Follow-up
Exclude from reference intervals No

Sample Quality

Additional Characteristics ~
Degraded No

Pre-Sampling Conditions

Fasting Duration < 2 hours
Restraint Type Behavioral
Activity Low activity

Initial Holding Conditions

Initial Holding Temp. Chilled/Refrigerated
Initial Holding Duration <= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
21/Jan/2025	~/~	Available	PORTLAND/11/11

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time 21/Jan/2025 08:30
Sample Type Plasma
Anatomical Source/Tissue Auricular vein(not specified)
Additives/Preservatives Heparin
Collection Method Phlebotomy
Collected By Dimas Dominguez
Reason Recheck/Follow-up
Exclude from reference intervals No

Sample Quality

Color Straw
Color Intensity light
Clarity Clear
Additional Characteristics ~
Degraded No

Pre-Sampling Conditions

Fasting Duration < 2 hours
Restraint Type Behavioral
Activity Low activity

Initial Holding Conditions

Initial Holding Temp. Chilled/Refrigerated
Initial Holding Duration <= 10 hours

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
21/Jan/2025	~/~	Available	PORTLAND/1/1

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Test Request Detail

Date Requested	21/Jan/2025
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Rachel Wells
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

E = HB

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Na	127 mEq/L	Global sp RI: 122 - 136 129 [129] N=70 (25)	~	No	No	No
K	4.4 mEq/L	Global sp RI: 3.3 - 5.2 4.3 [4.3] N=68 (25)	~	No	No	No
Chloride	90 mEq/L	Global sp RI: 86 - 99 92 [92] N=52 (15)	~	No	No	No
Total CO2	26 mEq/L	Global sp RI: 19.5 - 34.1 27.2 [28.0] N=58 (22)	~	No	~	No
BUN	10 mg/dL	Global sp RI: 4.0 - 17.1 10.0 [9.5] N=135 (43)	~	No	No	No
Creatinine	1.1 mg/dL	Basic Stats: ~ - ~ 1.1 [1.1] N=28 (3)	~	No	~	No
Glucose	93 mg/dL	Global sp RI: 60 - 141 91 [87] N=62 (24)	~	No	No	No
ion Ca ⁺⁺	1.31 mmol/L	Global sp RI: 1.16 - 1.42 1.30 [1.30] N=53 (21)	~	No	No	No
Anion Gap	16 mEq/L	Global sp RI: 10.2 - 22.9 17.1 [17.1] N=42 (14)	~	No	~	No
HCT	42 %	Global sp RI: 27.0 - 43.0 34.7 [34.0] N=3510 (100)	~	No	No	No
HGB [a]	14.3 g/dL	Global sp RI: 9.4 - 15.1 12.0 [11.9] N=5401 (140)	~	No	No	No

Sample Detail (GSN: S-HBV25-037544)

Collection Date/Time	21/Jan/2025 08:30	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Auricular vein(not specified)	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin	Exclude from reference intervals	No

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Request Detail

Date Requested	21/Jan/2025
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Rachel Wells
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
E = HB

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Ca	9.9 mg/dL	Global sp RI: 8.7 - 12.7 10.5 [10.4] N=999 (48)	~	No	No	No

Sample Detail (GSN: S-HBV25-037543)

Collection Date/Time	21/Jan/2025 08:30	Collection Method	Phlebotomy
Sample Type	Plasma	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Auricular vein(not specified)	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin	Exclude from reference intervals	No

14/Jan/2025

Clinical note

Date	Time	Note Author
14/Jan/2025	00:00	Carlos Sanchez
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Lab (Ca and iCa) Results for January 14, 2025 Hx: As of now iCa/TCa will be monitored weekly until calf delivery

Total Calcium (Catalyst One): 9.3 mg/dL
Ionized Calcium (iStat Chem8+): 1.29 mmol/L
 Interpretation: Total calcium and ionized calcium are within ZIMS RI

A: iCa and TCa are within ZIMS RI for the species
P: Continue routine total calcium and ionized calcium monitoring once a week from now on

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Sample Detail

Collection Date/Time	14/Jan/2025 07:35
Sample Type	Whole Blood
Anatomical Source/Tissue	Auricular vein(not specified)
Additives/Preservatives	Heparin
Collection Method	Phlebotomy
Collected By	Dimas Dominguez
Reason	Recheck/Follow-up
Exclude from reference intervals	No

Sample Quality

Additional Characteristics	~
Degraded	No

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
14/Jan/2025	~/~	Available	PORTLAND/11/11

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time	14/Jan/2025 07:35
Sample Type	Plasma
Anatomical Source/Tissue	Auricular vein(not specified)
Additives/Preservatives	Heparin
Collection Method	Phlebotomy
Collected By	Dimas Dominguez
Reason	Recheck/Follow-up
Exclude from reference intervals	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Additional Characteristics	~
Degraded	No

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
14/Jan/2025	~/~	Available	PORTLAND/1/1

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Request Detail

Date Requested	14/Jan/2025
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Jordan Butler
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
E = HB

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Ca	9.3 mg/dL	Global sp RI: 8.7 - 12.7 10.5 [10.4] N=999 (48)	~	No	No	No

Sample Detail (GSN: S-HBV25-037524)

Collection Date/Time	14/Jan/2025 07:35	Collection Method	Phlebotomy
Sample Type	Plasma	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Auricular vein(not specified)	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin	Exclude from reference intervals	No

Test & Result

Test Request Detail

Date Requested	14/Jan/2025
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Jordan Butler
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
E = HB

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl'd. from RI	Clinical Finding	Reviewed
Na	129 mEq/L	Global sp RI: 122 - 136 129 [129] N=70 (25)	~	No	No	No
K	4.2 mEq/L	Global sp RI: 3.3 - 5.2 4.3 [4.3] N=68 (25)	~	No	No	No
Chloride	88 mEq/L	Global sp RI: 86 - 99 92 [92] N=52 (15)	~	No	No	No
Total CO2	28 mEq/L	Global sp RI: 19.5 - 34.1 27.2 [28.0] N=58 (22)	~	No	~	No
BUN	10 mg/dL	Global sp RI: 4.0 - 17.1 10.0 [9.5] N=135 (43)	~	No	No	No
Creatinine	1.1 mg/dL	Basic Stats: ~ - ~ 1.1 [1.1] N=28 (3)	~	No	~	No
Glucose	66 mg/dL	Global sp RI: 60 - 141 91 [87] N=62 (24)	~	No	No	No
ion Ca++	1.29 mmol/L	Global sp RI: 1.16 - 1.42 1.30 [1.30] N=53 (21)	~	No	No	No
Anion Gap	18 mEq/L	Global sp RI: 10.2 - 22.9 17.1 [17.1] N=42 (14)	~	No	~	No
HCT	39 %	Global sp RI: 27.0 - 43.0 34.7 [34.0] N=3510 (100)	~	No	No	No
HGB [a]	13.3 g/dL	Global sp RI: 9.4 - 15.1 12.0 [11.9] N=5401 (140)	~	No	No	No

Sample Detail (GSN: S-HBV25-037525)

Collection Date/Time	14/Jan/2025 07:35	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Auricular vein(not specified)	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin	Exclude from reference intervals	No

10/Jan/2025

Clinical note

Date	Time	Note Author
10/Jan/2025	00:00	Carlos Sanchez
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Proc: Transabdominal and transrectal ultrasound for routine pregnancy screening.
Hx: Hormone profile is as expected for this late gestation phase; no concerns from staff, elephant is eating, urinating and acting normally.

Transabdominal US while tethered in ERD: Uneventful; unlike other times, unable to visualize ribs or skull of the foetus; mostly placenta and fluid observed.
Transrectal US with and without extensor; large urinary bladder and uterine wall observed, no foetus observed.

A: Good compliance with both ultrasounds screenings; limited visual of the calf today
P: Cont with weekly transabdominal US once weekly - **NOTE: Birth window starts on 01/16/2024**

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

06/Jan/2025

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Clinical note

Date	Time	Note Author
06/Jan/2025	00:00	Carlos Sanchez
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Lab (Ca and iCa) Results for January 6, 2025 Hx: As of now iCa/TCa will be monitored weekly until calf delivery

Total Calcium (Catalyst One): 9.3 mg/dL

Ionized Calcium (iStat Chem8+): 1.32 mmol/L

Interpretation: Total calcium and ionized calcium are within ZIMS RI

A: iCa and TCa are within ZIMS RI for the species

P: Continue routine total calcium and ionized calcium monitoring once a week from now on

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time	06/Jan/2025 07:50
Sample Type	Plasma
Anatomical Source/Tissue	Right saphenous vein
Additives/Preservatives	Heparin
Collection Method	Phlebotomy
Collected By	Pamela Starkey
Reason	Preventative Health
Exclude from reference intervals	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Additional Characteristics	~
Degraded	No

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
06/Jan/2025	~/~	Available	PORTLAND/1/1

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Sample Detail

Collection Date/Time	06/Jan/2025 07:50
Sample Type	Serum
Anatomical Source/Tissue	Right saphenous vein
Collection Method	Phlebotomy
Collected By	Pamela Starkey
Reason	Preventative Health
Exclude from reference intervals	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Additional Characteristics	~
Degraded	No

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
06/Jan/2025	~/~	Available	~/~/~

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time	06/Jan/2025 07:50
Sample Type	Whole Blood
Anatomical Source/Tissue	Right saphenous vein
Additives/Preservatives	Heparin
Collection Method	Phlebotomy
Collected By	Pamela Starkey
Reason	Preventative Health
Exclude from reference intervals	No

Sample Quality

Additional Characteristics	~
Degraded	No

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
06/Jan/2025	~/~	Available	PORTLAND/11/11

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Request Detail

Date Requested	06/Jan/2025
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Heather Brittingham
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
E = HB

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Ca	9.3 mg/dL	Global sp RI: 8.7 - 12.7 10.5 [10.4] N=999 (48)	~	No	No	No

Sample Detail (GSN: S-HBV25-037489)

Collection Date/Time	06/Jan/2025 07:50	Collection Method	Phlebotomy
Sample Type	Plasma	Collected By	Pamela Starkey
Anatomical Source/Tissue	Right saphenous vein	Reason	Preventative Health
Additives/Preservatives	Heparin	Exclude from reference intervals	No

Test & Result

Test Request Detail

Date Requested	06/Jan/2025
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Heather Brittingham
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
E = HB

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Exclud. from RI	Clinical Finding	Reviewed
Na	127 mEq/L	Global sp RI: 122 - 136 129 [129] N=70 (25)	~	No	No	No
K	4.5 mEq/L	Global sp RI: 3.3 - 5.2 4.3 [4.3] N=68 (25)	~	No	No	No
Chloride	88 mEq/L	Global sp RI: 86 - 99 92 [92] N=52 (15)	~	No	No	No
Total CO2	25 mEq/L	Global sp RI: 19.5 - 34.1 27.2 [28.0] N=58 (22)	~	No	~	No
BUN	9 mg/dL	Global sp RI: 4.0 - 17.1 10.0 [9.5] N=135 (43)	~	No	No	No
Creatinine	1.0 mg/dL	Basic Stats: ~ - ~ 1.1 [1.1] N=28 (3)	~	No	~	No
Glucose	*** mg/dL	Global sp RI: 60 - 141 91 [87] N=62 (24)	~	No	No	No
ion Ca++	1.32 mmol/L	Global sp RI: 1.16 - 1.42 1.30 [1.30] N=53 (21)	~	No	No	No
Anion Gap	19 mEq/L	Global sp RI: 10.2 - 22.9 17.1 [17.1] N=42 (14)	~	No	~	No
HCT	33 %	Global sp RI: 27.0 - 43.0 34.7 [34.0] N=3510 (100)	~	No	No	No
HGB [a]	11.2 g/dL	Global sp RI: 9.4 - 15.1 12.0 [11.9] N=5401 (140)	~	No	No	No

Sample Detail (GSN: S-HBV25-037490)

Collection Date/Time	06/Jan/2025 07:50	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Pamela Starkey
Anatomical Source/Tissue	Right saphenous vein	Reason	Preventative Health
Additives/Preservatives	Heparin	Exclude from reference intervals	No

03/Jan/2025

Clinical note

Date	Time	Note Author
03/Jan/2025	00:00	Tina Batek
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

TRANSABDOMINAL ULTRASOUND:

Proc: Transabdominal US, performed in ERD with veterinarian CAB.

S/O: Elephant's progesterone profile has been consistent with continued pregnancy. Staff do not report concerns with behavior patterns or any additional discharge. Elephant restrained in ERD with tethers and behavioral conditioning, accepting food reinforcement readily throughout the session.

Transabdominal ultrasound performed today, focused on R flank (mid-to-caudal abdomen). Large amount of placental tissue visualized, with amnion deep to this layer. Multiple views of rib visualized with shadowing of vertebral processes. Also visualized base of the base of the skull. Deeper tissues more difficult to visualize (possible image of kidney saved). Moderate fetal movement during ultrasound today.

A: Pregnant elephant - viable pregnancy
P: Cont weekly transabdominal US of elephant
Cont. monitoring hormones as scheduled, will also add weekly TCa and iCa

CAB

Animal Care Staff Medical Summary

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Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

27/Dec/2024

Clinical note

Date	Time	Note Author
27/Dec/2024	00:00	Josie Rose

Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

WEEKLY ULTRASOUND

S/O: Elephant's progesterone profile has been consistent with continued pregnancy. Staff do not report concerns with behavior patterns. This morning, discharge was noted in her overnight stall. Visual evaluation of the discharge was compatible with thick, clear mucous. No malodor, hemorrhage, or purulent debris present. Estimated volume ~500 mL. Elephant restrained in ERD with tethers and behavioral conditioning, accepting food reinforcement readily throughout the session.

Abdominal ultrasound performed today, focused on R mid-to-caudal abdomen, with more extension cranially today. Large amount of placental tissue visualized, in addition to continued visualization of rib cage structures. A well-defined curvilinear structure was observed as well.

A: Viable pregnancy. The lack of first stage pregnancy signs (lacking discomfort, restlessness and/or abdominal contractions) preceding the relatively small amount of mucous found today, and lack of signs of abdominal contractions, suggest that this is normal vestibule discharge and not loss of mucous plug.

P: Continue weekly ultrasound monitoring

JBR 27Dec2024

Animal Care Staff Medical Summary

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Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

20/Dec/2024

Clinical note

Date	Time	Note Author
20/Dec/2024	00:00	Josie Rose

Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

WEEKLY ULTRASOUND

S/O: Elephant's progesterone profile has been consistent with continued pregnancy. Staff do not report concerns with behavior patterns or any concerning vestibule discharge. Staff have noted that her mammary tissue is becoming more developed. Elephant restrained in ERD with tethers and behavioral conditioning, accepting food reinforcement readily throughout the session.

Abdominal ultrasound performed today, focused on R mid-to-caudal abdomen, with more extension cranially today. Large amount of placental tissue visualized, with amnion deep to this layer, and presumably abdominal body wall. The rib structures are more caudally placed on dam's abdomen this week, in the region that is immediately caudal to dam's umbilicus. Images saved.

A: Viable pregnancy

P: Continue weekly ultrasound monitoring

JBR 20Dec2024

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

17/Dec/2024

Clinical note

Date	Time	Note Author
17/Dec/2024	00:00	Josie Rose
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Lab (Ca and iCa) Results for Dec 17, 2024

Total Calcium (Catalyst One): 9.3 mg/dL

Ionized Calcium (iStat Chem8+): 1.30 mmol/L

Interpretation: Total calcium and ionized calcium are within ZIMS RI

A: iCa and TCa are within ZIMS RI for the species

P: Continue routine total calcium and ionized calcium monitoring twice a month until December, in Jan 2025 start with weekly sampling

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time	17/Dec/2024 08:28
Sample Type	Whole Blood
Anatomical Source/Tissue	Right ear
Additives/Preservatives	Heparin, Lithium
Collection Method	Phlebotomy
Collected By	Dimas Dominguez
Reason	Recheck/Follow-up
Exclude from reference intervals	No

Sample Quality

Additional Characteristics	~
Degraded	No

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Low activity

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
17/Dec/2024	~/~	Available	PORTLAND/11/11

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Sample Detail

Collection Date/Time	17/Dec/2024 08:28
Sample Type	Plasma
Anatomical Source/Tissue	Right ear
Additives/Preservatives	Heparin
Collection Method	Phlebotomy
Collected By	Dimas Dominguez
Reason	Recheck/Follow-up
Exclude from reference intervals	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Additional Characteristics	~
Degraded	No

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Low activity

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
17/Dec/2024	~/~	Available	PORTLAND/1/1

Notes
~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Test Request Detail

Date Requested	17/Dec/2024
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Shara Seals
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
E = HB

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Ca	9.3 mg/dL	Global sp RI: 8.7 - 12.7 10.5 [10.4] N=999 (48)	~	No	No	No

Sample Detail (GSN: S-HBV24-037441)

Collection Date/Time	17/Dec/2024 08:28	Collection Method	Phlebotomy
Sample Type	Plasma	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Right ear	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin	Exclude from reference intervals	No

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Request Detail

Date Requested	17/Dec/2024
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Shara Seals
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
E = HB

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Na	129 mEq/L	Global sp RI: 122 - 136 129 [129] N=70 (25)	~	No	No	No
K	4.5 mEq/L	Global sp RI: 3.3 - 5.2 4.3 [4.3] N=68 (25)	~	No	No	No
Chloride	89 mEq/L	Global sp RI: 86 - 99 92 [92] N=52 (15)	~	No	No	No
Total CO2	28 mEq/L	Global sp RI: 19.5 - 34.1 27.2 [28.0] N=58 (22)	~	No	~	No
BUN	10 mg/dL	Global sp RI: 4.0 - 17.1 10.0 [9.5] N=135 (43)	~	No	No	No
Creatinine	1.0 mg/dL	Basic Stats: ~ - ~ 1.1 [1.1] N=28 (3)	~	No	~	No
Glucose	88 mg/dL	Global sp RI: 60 - 141 91 [87] N=62 (24)	~	No	No	No
ion Ca ⁺⁺	1.3 mmol/L	Global sp RI: 1.16 - 1.42 1.30 [1.30] N=53 (21)	~	No	No	No
Anion Gap	18 mEq/L	Global sp RI: 10.2 - 22.9 17.1 [17.1] N=42 (14)	~	No	~	No
HCT	37 %	Global sp RI: 27.0 - 43.0 34.7 [34.0] N=3510 (100)	~	No	No	No
HGB [a]	12.6 g/dL	Global sp RI: 9.4 - 15.1 12.0 [11.9] N=5401 (140)	~	No	No	No

Sample Detail (GSN: S-HBV24-037442)

Collection Date/Time	17/Dec/2024 08:28	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Right ear	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin, Lithium	Exclude from reference intervals	No

06/Dec/2024

Clinical note

Date	Time	Note Author
06/Dec/2024	00:00	Josie Rose
Significant	Private	Active Problems
No	No	~
Note Subtype: General		
Notes/Comments		
WEEKLY ULTRASOUND		
S/O: Elephant's progesterone profile has been consistent with continued pregnancy. Staff do not report concerns with behavior patterns or any concerning vestibule discharge. Elephant restrained in ERD with tethers and behavioral conditioning, accepting food reinforcement readily throughout the session.		
Abdominal ultrasound performed today, focused on R mid-to-caudal abdomen, with more extension cranially today. Large amount of placental tissue visualized, with amnion		

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

deep to this layer, and presumably abdominal body wall. The rib structures are more cranially placed on dam's abdomen this week, the region that is cranial to dam's umbilicus. A structure compatible with an umbilicus (tubular, hypoechoic centrally, tapers outward to connect to a placental structure) was visualized. Images saved.

A: Viable pregnancy
P: Continue weekly ultrasound monitoring

JBR 6Dec2024

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

03/Dec/2024

Clinical note

Date	Time	Note Author
03/Dec/2024	00:00	Carlos Sanchez
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Lab (Ca) result
Lab (Ca and iCa) Results for Oct 15, 2024

Total Calcium (Catalyst One): 9.8 mg/dL
Ionized Calcium (iStat Chem8+): 1.28 mmol/L
Interpretation: Total calcium and ionized calcium are within ZIMS RI

A: iCa and TCa are within ZIMS RI for the species
P: Continue routine total calcium and ionized calcium monitoring twice a month until December, in Jan 2025 start with weekly sampling

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time	03/Dec/2024 08:30
Sample Type	Plasma
Anatomical Source/Tissue	Right auricular vein
Additives/Preservatives	Heparin, Lithium
Collection Method	Phlebotomy
Collected By	Dimas Dominguez
Reason	Recheck/Follow-up
Exclude from reference intervals	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Additional Characteristics	~
Degraded	No

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
03/Dec/2024	~/~	Available	PORTLAND/1/1

Notes

~

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

<p>Sample Detail</p> <p>Collection Date/Time 03/Dec/2024 08:30</p> <p>Sample Type Serum</p> <p>Anatomical Source/Tissue Right auricular vein</p> <p>Collection Method Phlebotomy</p> <p>Collected By Dimas Dominguez</p> <p>Reason Recheck/Follow-up</p> <p>Exclude from reference intervals No</p>		<p>Sample Quality</p> <p>Color Red</p> <p>Color Intensity medium</p> <p>Clarity Clear</p> <p>Additional Characteristics ~</p> <p>Degraded No</p>	
<p>Initial Holding Conditions</p> <p>Initial Holding Temp. Chilled/Refrigerated</p> <p>Initial Holding Duration <= 10 hours</p>		<p>Pre-Sampling Conditions</p> <p>Fasting Duration < 2 hours</p> <p>Restraint Type Behavioral</p> <p>Activity Moderate activity</p>	

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
03/Dec/2024	~/~	Available	~/~/~

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

<p>Sample Detail</p> <p>Collection Date/Time 03/Dec/2024 08:30</p> <p>Sample Type Whole Blood</p> <p>Anatomical Source/Tissue Right auricular vein</p> <p>Additives/Preservatives EDTA</p> <p>Collection Method Phlebotomy</p> <p>Collected By Dimas Dominguez</p> <p>Reason Recheck/Follow-up</p> <p>Exclude from reference intervals No</p>		<p>Sample Quality</p> <p>Additional Characteristics ~</p> <p>Degraded No</p>	
<p>Initial Holding Conditions</p> <p>Initial Holding Temp. Chilled/Refrigerated</p> <p>Initial Holding Duration <= 10 hours</p>		<p>Pre-Sampling Conditions</p> <p>Fasting Duration < 2 hours</p> <p>Restraint Type Behavioral</p> <p>Activity Moderate activity</p>	

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
03/Dec/2024	~/~	Available	~/~/~

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Sample Detail

Collection Date/Time	03/Dec/2024 08:30
Sample Type	Whole Blood
Anatomical Source/Tissue	Right auricular vein
Additives/Preservatives	Heparin, Lithium
Collection Method	Phlebotomy
Collected By	Dimas Dominguez
Reason	Recheck/Follow-up
Exclude from reference intervals	No

Sample Quality

Additional Characteristics	~
Degraded	No

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
03/Dec/2024	~/~	Available	PORTLAND/11/11

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Test Request Detail

Date Requested	03/Dec/2024
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Jordan Butler
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

e=jb

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Na	127 mEq/L	Global sp RI: 122 - 136 129 [129] N=70 (25)	~	No	No	No
K	4.7 mEq/L	Global sp RI: 3.3 - 5.2 4.3 [4.3] N=68 (25)	~	No	No	No
Chloride	88 mEq/L	Global sp RI: 86 - 99 92 [92] N=52 (15)	~	No	No	No
Total CO2	27 mEq/L	Global sp RI: 19.5 - 34.1 27.2 [28.0] N=58 (22)	~	No	~	No
BUN	9 mg/dL	Global sp RI: 4.0 - 17.1 10.0 [9.5] N=135 (43)	~	No	No	No
Creatinine	1.0 mg/dL	Basic Stats: ~ - ~ 1.1 [1.1] N=28 (3)	~	No	~	No
Glucose	61 mg/dL	Global sp RI: 60 - 141 91 [87] N=62 (24)	~	No	No	No
ion Ca++	1.28 mmol/L	Global sp RI: 1.16 - 1.42 1.30 [1.30] N=53 (21)	~	No	No	No
Anion Gap	18 mEq/L	Global sp RI: 10.2 - 22.9 17.1 [17.1] N=42 (14)	~	No	~	No
HCT	40 %	Global sp RI: 27.0 - 43.0 34.7 [34.0] N=3510 (100)	~	No	No	No
HGB [a]	13.6 g/dL	Global sp RI: 9.4 - 15.1 12.0 [11.9] N=5401 (140)	~	No	No	No

Sample Detail (GSN: S-HBV24-037390)

Collection Date/Time	03/Dec/2024 08:30	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Right auricular vein	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin, Lithium	Exclude from reference intervals	No

Test & Result

Test Request Detail

Date Requested	03/Dec/2024
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Jordan Butler
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

e=jb

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Ca	9.8 mg/dL	Global sp RI: 8.7 - 12.7 10.5 [10.4] N=999 (48)	~	No	No	No

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Sample Detail (GSN: S-HBV24-037389)

Collection Date/Time	03/Dec/2024 08:30	Collection Method	Phlebotomy
Sample Type	Plasma	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Right auricular vein	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin, Lithium	Exclude from reference intervals	No

22/Nov/2024

Clinical note

Date	Time	Note Author
22/Nov/2024	00:00	Tina Batek
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

TRANSABDOMINAL ULTRASOUND:

Proc: Transabdominal US, performed in ERD with veterinarian CAB.

S/O: Elephant's progesterone profile has been consistent with continued pregnancy. Staff do not report concerns with behavior patterns or any concerning vestibule discharge. Elephant restrained in ERD with tethers and behavioral conditioning, accepting food reinforcement readily throughout the session.

Abdominal ultrasound performed today, focused on R flank (mid-to-caudal abdomen). Large amount of placental tissue visualized, with amnion deep to this layer. The rib structures are difficult to visualize today due to calf positioning. No heart is visible due to fetal size.

A: Pregnant elephant - viable pregnancy

P: Cont weekly transabdominal and monthly transrectal US of elephant
Cont. monitoring hormones as scheduled

CAB

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

19/Nov/2024

Clinical note

Date	Time	Note Author
19/Nov/2024	00:00	Josie Rose
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Lab (Ca) result

Lab (Ca and iCa) Results for Nov 19, 2024

Total Calcium (Catalyst One): 9.7 mg/dL

Ionized Calcium (iStat Chem8+): 1.29 mmol/L

Interpretation: Total calcium and ionized calcium are within ZIMS RI

A: iCa and TCa are within ZIMS RI for the species

P: Continue routine total calcium and ionized calcium monitoring twice a month until December, in Jan 2025 start with weekly sampling

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Sample

Sample Detail

Collection Date/Time	19/Nov/2024 08:05
Sample Type	Serum
Anatomical Source/Tissue	Right auricular vein
Collection Method	Phlebotomy
Collected By	Gilbert Gomez
Reason	Recheck/Follow-up
Exclude from reference intervals	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Additional Characteristics	~
Degraded	No

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
19/Nov/2024	~/~	Available	~/~/~

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time	19/Nov/2024 08:05
Sample Type	Plasma
Anatomical Source/Tissue	Right auricular vein
Additives/Preservatives	Heparin, Lithium
Collection Method	Phlebotomy
Collected By	Gilbert Gomez
Reason	Recheck/Follow-up
Exclude from reference intervals	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Additional Characteristics	~
Degraded	No

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
19/Nov/2024	~/~	Available	PORTLAND/1/1

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Sample Detail

Collection Date/Time	19/Nov/2024 08:05
Sample Type	Whole Blood
Anatomical Source/Tissue	Right auricular vein
Additives/Preservatives	Heparin, Lithium
Collection Method	Phlebotomy
Collected By	Gilbert Gomez
Reason	Recheck/Follow-up
Exclude from reference intervals	No

Sample Quality

Additional Characteristics	~
Degraded	No

Pre-Sampling Conditions

Fasting Duration	< 2 hours
Restraint Type	Behavioral
Activity	Moderate activity

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
19/Nov/2024	~/~	Available	PORTLAND/11/11

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Test Request Detail

Date Requested	19/Nov/2024
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Jordan Butler
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

e=jb

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl'd. from RI	Clinical Finding	Reviewed
Ca	9.7 mg/dL	Global sp RI: 8.7 - 12.7 10.5 [10.4] N=999 (48)	~	No	No	No

Sample Detail (GSN: S-HBV24-037335)

Collection Date/Time	19/Nov/2024 08:05	Collection Method	Phlebotomy
Sample Type	Plasma	Collected By	Gilbert Gomez
Anatomical Source/Tissue	Right auricular vein	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin, Lithium	Exclude from reference intervals	No

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Request Detail

Date Requested	19/Nov/2024
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Jordan Butler
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
e=jb

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Exclud. from RI	Clinical Finding	Reviewed
Na	130 mEq/L	Global sp RI: 122 - 136 129 [129] N=70 (25)	~	No	No	No
K	4.8 mEq/L	Global sp RI: 3.3 - 5.2 4.3 [4.3] N=68 (25)	~	No	No	No
Chloride	92 mEq/L	Global sp RI: 86 - 99 92 [92] N=52 (15)	~	No	No	No
Total CO2	29 mEq/L	Global sp RI: 19.5 - 34.1 27.2 [28.0] N=58 (22)	~	No	~	No
BUN	8.0 mg/dL	Global sp RI: 4.0 - 17.1 10.0 [9.5] N=135 (43)	~	No	No	No
Creatinine	1.1 mg/dL	Basic Stats: ~ - ~ 1.1 [1.1] N=28 (3)	~	No	~	No
Glucose	100 mg/dL	Global sp RI: 60 - 141 91 [87] N=62 (24)	~	No	No	No
ion Ca ⁺⁺	1.29 mmol/L	Global sp RI: 1.16 - 1.42 1.30 [1.30] N=53 (21)	~	No	No	No
Anion Gap	15 mEq/L	Global sp RI: 10.2 - 22.9 17.1 [17.1] N=42 (14)	~	No	~	No
HCT	40 %	Global sp RI: 27.0 - 43.0 34.7 [34.0] N=3510 (100)	~	No	No	No
HGB [a]	13.6 g/dL	Global sp RI: 9.4 - 15.1 12.0 [11.9] N=5401 (140)	~	No	No	No

Sample Detail (GSN: S-HBV24-037336)

Collection Date/Time	19/Nov/2024 08:05	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Gilbert Gomez
Anatomical Source/Tissue	Right auricular vein	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin, Lithium	Exclude from reference intervals	No

15/Nov/2024

Clinical note

Date	15/Nov/2024	Time	00:00	Note Author	Josie Rose
Significant	No	Private	No	Active Problems	~
Note Subtype: General					
Notes/Comments					
WEEKLY ULTRASOUND					
S/O: Elephant's progesterone profile has been consistent with continued pregnancy. Staff do not report concerns with behavior patterns or any concerning vestibule discharge. Elephant restrained in ERD with tethers and behavioral conditioning, accepting food reinforcement readily throughout the session.					
Abdominal ultrasound performed today, focused on R mid-to-caudal abdomen. Large amount of placental tissue visualized, with amnion deep to this layer, and presumably					

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

abdominal body wall. The rib structures are more cranially placed on dam's abdomen this week; no heart is visible due to fetal size. Spontaneous movement of the calf could be felt through the body wall, compatible with the sudden, jerking movement of hiccups.

A: Viable pregnancy
P: Continue weekly ultrasound monitoring

JBR 15Nov2024

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

08/Nov/2024

Clinical note

Date	Time	Note Author
08/Nov/2024	00:00	Carlos Sanchez
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Proc: Transrectal ultrasound
Hx: Routine monitoring during pregnancy, elephant reported as BAR, eating and acting normally; training in preparation for calf delivery underway.

Proc: Transrectal US with convex probe and plastic (black) extension
Elephant managed with positive reinforcement - uneventful
Staff cleaned rectal portion of fecal boluses - uneventful
US: Convex probe with and without extension
Observed, uterus, fluid, calf ribs and female's urinary bladder and colon
Observed fetus movement

A: Normal transrectal US, extension was in the short side and a longer extension would be indicated for this elephant
P: Continue with transabdominal (3x) and transrectal (x1) US weekly

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

06/Nov/2024

Sample

Sample Detail

Collection Date/Time	06/Nov/2024 00:00
Sample Type	Wash/Lavage Fluid
Anatomical Source/Tissue	Elephant trunk
Collection Method	Wash/lavage
Collected By	Dimas Dominguez
Reason	Disease Monitoring
Exclude from reference intervals	No

Sample Quality

Color	~
Color Intensity	~

Initial Holding Conditions

Initial Holding Temp.	Frozen
Initial Holding Duration	> 48 hours

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
06/Nov/2024	~/~	Consumed	NVSL AMES/2/2
06/Nov/2024	~/~	Available	NVSL AMES/2/2

Notes

**Per NVSL - The cup associated with this sample arrived broken and there was not enough sample to perform the PCR. However, they did perform a culture on this sample. JB

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Test Request Detail

Date Requested	06/Nov/2024
Requested By	Carlos Sanchez
Laboratory	NVSL AMES
Analysis Start Date	~
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

Accession Number: 24-032868
 Results authorized by: Dr. Kimberly A Lehman, DVM, Director Diagnostic Bacteriology and Pathology Laboratory.
 Phone: 515-337-7526
 Email: NVSL-MB.caseManager@usda.gov

KH

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl'd. from RI	Clinical Finding	Reviewed
M. tb. complex PCR	negative		~	~	~	No
Mycobacterium cultur	No growth		~	~	~	~

Sample Detail (GSN: S-HBV24-037308-S01)

Collection Date/Time	06/Nov/2024 00:00	Collection Method	Wash/lavage
Sample Type	Wash/Lavage Fluid	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Elephant trunk	Reason	Disease Monitoring
Additives/Preservatives	~	Exclude from reference intervals	No

05/Nov/2024

Clinical note

Date	Time	Note Author
05/Nov/2024	00:00	Carlos Sanchez
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

Lab (Ca) result
 Lab (Ca and iCa) Results for Oct 15, 2024

Total Calcium (Catalyst One): 9.5 mg/dL
Ionized Calcium (iStat Chem8+): 1.28 mmol/L
 Interpretation: Total calcium and ionized calcium are within ZIMS RI

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

A: iCa and TCa are within ZIMS RI for the species
 P: Continue routine total calcium and ionized calcium monitoring twice a month until December, in Jan 2025 start with weekly sampling

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time 05/Nov/2024 07:55
Sample Type Serum
Anatomical Source/Tissue Right auricular vein
Collection Method Phlebotomy
Collected By Dimas Dominguez
Reason Recheck/Follow-up
Exclude from reference intervals No

Sample Quality

Color Straw
Color Intensity light
Clarity Clear
Additional Characteristics ~
Degraded No

Initial Holding Conditions

Initial Holding Temp. Chilled/Refrigerated
Initial Holding Duration <= 10 hours

Pre-Sampling Conditions

Fasting Duration < 2 hours
Restraint Type Behavioral
Activity Moderate activity

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
05/Nov/2024	~/~	Available	PORTLAND/1/1
05/Nov/2024	~/~	Available	NVSL AMES/1/1

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail

Collection Date/Time 05/Nov/2024 07:55
Sample Type Whole Blood
Anatomical Source/Tissue Right auricular vein
Additives/Preservatives EDTA
Collection Method Phlebotomy
Collected By Dimas Dominguez
Reason Recheck/Follow-up
Exclude from reference intervals No

Sample Quality

Additional Characteristics ~
Degraded No

Initial Holding Conditions

Initial Holding Temp. Chilled/Refrigerated
Initial Holding Duration <= 10 hours

Pre-Sampling Conditions

Fasting Duration < 2 hours
Restraint Type Behavioral
Activity Moderate activity

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
05/Nov/2024	~/~	Available	~/~/~

Notes

~

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail		Sample Quality	
Collection Date/Time	05/Nov/2024 07:55	Additional Characteristics	~
Sample Type	Whole Blood	Degraded	No
Anatomical Source/Tissue	Right auricular vein	Pre-Sampling Conditions	
Additives/Preservatives	Heparin, Lithium	Fasting Duration	< 2 hours
Collection Method	Phlebotomy	Restraint Type	Behavioral
Collected By	Dimas Dominguez	Activity	Moderate activity
Reason	Recheck/Follow-up		
Exclude from reference intervals	No		

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
05/Nov/2024	~/~	Available	PORTLAND/11/11

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Sample

Sample Detail		Sample Quality	
Collection Date/Time	05/Nov/2024 07:55	Color	Straw
Sample Type	Plasma	Color Intensity	light
Anatomical Source/Tissue	Right auricular vein	Clarity	Clear
Additives/Preservatives	Heparin, Lithium	Additional Characteristics	~
Collection Method	Phlebotomy	Degraded	No
Collected By	Dimas Dominguez	Pre-Sampling Conditions	
Reason	Recheck/Follow-up	Fasting Duration	< 2 hours
Exclude from reference intervals	No	Restraint Type	Behavioral
		Activity	Moderate activity

Initial Holding Conditions

Initial Holding Temp.	Chilled/Refrigerated
Initial Holding Duration	<= 10 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
05/Nov/2024	~/~	Available	~/~/~

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Request Detail	
Date Requested	05/Nov/2024
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Heather Brittingham
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments
e=jb

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Na	128 mmol/L	Global sp RI: 122 - 136 129 [129] N=70 (25)	~	No	No	No
K	4.3 mmol/L	Global sp RI: 3.3 - 5.2 4.3 [4.3] N=68 (25)	~	No	No	No
Chloride	91 mmol/L	Global sp RI: 86 - 99 92 [92] N=52 (15)	~	No	No	No
Total CO2	27 mmol/L	Global sp RI: 19.5 - 34.1 27.2 [28.0] N=58 (22)	~	No	~	No
BUN	8 mg/dL	Global sp RI: 4.0 - 17.1 10.0 [9.5] N=135 (43)	~	No	No	No
Creatinine	1.0 mg/dL	Basic Stats: ~ - ~ 1.1 [1.1] N=28 (3)	~	No	~	No
Glucose	88 mg/dL	Global sp RI: 60 - 141 91 [87] N=62 (24)	~	No	No	No
ion Ca++	1.28 mmol/L	Global sp RI: 1.16 - 1.42 1.30 [1.30] N=53 (21)	~	No	No	No
Anion Gap	15 mmol/L	Global sp RI: 10.2 - 22.9 17.1 [17.1] N=42 (14)	~	No	~	No
HCT	39 %	Global sp RI: 27.0 - 43.0 34.7 [34.0] N=3510 (100)	~	No	No	No
HGB [a]	13.3 g/dL	Global sp RI: 9.4 - 15.1 12.0 [11.9] N=5401 (140)	~	No	No	No

Sample Detail (GSN: S-HBV24-037262)			
Collection Date/Time	05/Nov/2024 07:55	Collection Method	Phlebotomy
Sample Type	Whole Blood	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Right auricular vein	Reason	Recheck/Follow-up
Additives/Preservatives	Heparin, Lithium	Exclude from reference intervals	No

Test & Result

Test Request Detail	
Date Requested	05/Nov/2024
Requested By	Carlos Sanchez
Laboratory	NVSL AMES
Analysis Start Date	~
Analysis Equipment	~
Insufficient Sample	No

Sample Quality	
Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Notes/Comments

Accession Number: 24-032868
 Results authorized by: Dr. Kimberly A Lehman, DVM, Director Diagnostic Bacteriology and Pathology Laboratory.
 Phone: 515-337-7526
 Email: NVSL-MB.caseManager@usda.gov

KH

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
M Tb/bovis Ab IC	negative		~	~	~	No

Sample Detail (GSN: S-HBV24-037260-S01)

Collection Date/Time	05/Nov/2024 07:55	Collection Method	Phlebotomy
Sample Type	Serum	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Right auricular vein	Reason	Recheck/Follow-up
Additives/Preservatives	~	Exclude from reference intervals	No

Test & Result

Test Request Detail

Date Requested	05/Nov/2024
Requested By	Carlos Sanchez
Analysis Start Date & Time	~
Analysis By	Heather Brittingham
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	Straw
Color Intensity	light
Clarity	Clear
Consistency	~
Additional Characteristics	~
Degraded	No

Notes/Comments

e=jb

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
Ca	9.5 mg/dL	Global sp RI: 9.1 - 11.7 10.4 [10.4] N=1719 (122)	~	No	No	No

Sample Detail (GSN: S-HBV24-037260)

Collection Date/Time	05/Nov/2024 07:55	Collection Method	Phlebotomy
Sample Type	Serum	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Right auricular vein	Reason	Recheck/Follow-up
Additives/Preservatives	~	Exclude from reference intervals	No

02/Nov/2024

Clinical note

Date	Time	Note Author
02/Nov/2024	00:00	Tina Batek
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

TRANSABDOMINAL ULTRASOUND:

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Hx: Pregnant elephant continuously monitoring by hormone profiling;
Proc: Transabdominal US, performed in ERD with veterinarian CAB.

S: Elephant is BAR, very cooperative, positively reinforced throughout process.
O: R flank approach; most rewarding views are along the ventral midline in the caudal 1/4 length of her abdominal wall. Views compatible with the rib cage and abdominal wall were obtained. Strong movement was observed of the rib cage, confirming fetal movement. No heart rate observed.

A: Pregnant elephant
P: Cont weekly transabdominal and monthly transrectal US of elephant
Cont. monitoring hormones as scheduled

CAB

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

01/Nov/2024

Sample

Sample Detail

Collection Date/Time 01/Nov/2024 00:00
Sample Type Wash/Lavage Fluid
Anatomical Source/Tissue Elephant trunk
Collection Method Wash/lavage
Collected By Dimas Dominguez
Reason Disease Monitoring
Exclude from reference intervals No

Sample Quality

Color ~
Color Intensity ~

Initial Holding Conditions

Initial Holding Temp. Frozen
Initial Holding Duration > 48 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
01/Nov/2024	~/~	Consumed	NVSL AMES/2/2

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Test Request Detail

Date Requested 01/Nov/2024
Requested By Carlos Sanchez
Laboratory NVSL AMES
Analysis Start Date 07/Nov/2024
Analysis Equipment ~
Insufficient Sample No

Sample Quality

Color ~
Color Intensity ~
Clarity ~
Consistency ~
Additional Characteristics ~
Degraded No

Notes/Comments

Accession Number: 24-032868
 Results authorized by: Dr. Kimberly A Lehman, DVM, Director Diagnostic Bacteriology and Pathology Laboratory.
 Phone: 515-337-7526
 Email: NVSL-MB.caseManager@usda.gov

JB

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl'd. from RI	Clinical Finding	Reviewed
M. tb. complex PCR	negative		~	~	~	No
Mycobacterium cultur	No growth		~	~	~	~

Sample Detail (GSN: S-HBV24-037309)

Collection Date/Time	01/Nov/2024 00:00	Collection Method	Wash/lavage
Sample Type	Wash/Lavage Fluid	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Elephant trunk	Reason	Disease Monitoring
Additives/Preservatives	~	Exclude from reference intervals	No

31/Oct/2024

Sample

Sample Detail

Collection Date/Time	31/Oct/2024 00:00
Sample Type	Wash/Lavage Fluid
Anatomical Source/Tissue	Elephant trunk
Collection Method	Wash/lavage
Collected By	Dimas Dominguez
Reason	Disease Monitoring
Exclude from reference intervals	No

Sample Quality

Color	~
Color Intensity	~

Initial Holding Conditions

Initial Holding Temp.	Frozen
Initial Holding Duration	> 48 hours

Sample History

Date	Sample ID / Sample GSN	Status	Laboratory / Test Order / Test Results
31/Oct/2024	~/~	Consumed	~/~/~

Notes

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~

Test & Result

Test Request Detail

Date Requested	31/Oct/2024
Requested By	Carlos Sanchez
Laboratory	NVSL AMES
Analysis Start Date	07/Nov/2024
Analysis Equipment	~
Insufficient Sample	No

Sample Quality

Color	~
Color Intensity	~
Clarity	~
Consistency	~
Additional Characteristics	~
Degraded	No

Animal Type	GAN	Preferred ID	Taxonomy	Sex	Birth Date
Individual	MIG12-29823884	94122 / Rose-Tu	Elephas maximus/Asian elephant	Female	31/Aug/1994

Notes/Comments

**Per NVSL - The cup associated with this sample arrived broken and there was not enough sample to perform the PCR. However, they did perform a culture on this sample. JB

Accession Number: 24-032868

Results authorized by: Dr. Kimberly A Lehman, DVM, Director Diagnostic Bacteriology and Pathology Laboratory.

Phone: 515-337-7526

Email: NVSL-MB.caseManager@usda.gov

JB

Test Requests & Test Results

Test	Primary Result	Expected Results (Based on Best Available Match) Type: Min- Max Mean [Median] N (Animals)	Evaluation	Excl. from RI	Clinical Finding	Reviewed
M. tb. complex PCR	indeterminate		~	~	~	No
Mycobacterium cultur	No growth		~	~	~	~

Sample Detail (GSN: S-HBV24-037308)

Collection Date/Time	06/Nov/2024 00:00	Collection Method	Wash/lavage
Sample Type	Wash/Lavage Fluid	Collected By	Dimas Dominguez
Anatomical Source/Tissue	Elephant trunk	Reason	Disease Monitoring
Additives/Preservatives	~	Exclude from reference intervals	No

24/Oct/2024

Clinical note

Date	Time	Note Author
24/Oct/2024	00:00	Gail Huckins
Significant	Private	Active Problems
No	No	~

Note Subtype: General

Notes/Comments

TRANSABDOMINAL ULTRASOUND

Hx: Pregnant elephant continuously monitoring by hormone profiling;
Proc: Transabdominal US, performed in ERD with veterinarian GH.

S: Elephant is BAR, very cooperative, positively reinforced throughout process.

O: R flank approach; most rewarding views are along the ventral midline in the caudal 1/4 length of her abdominal wall, but more cranially in this window today. Views compatible with the rib cage and abdominal wall were obtained. Strong movement was observed of the rib cage, confirming fetal movement. No heart rate observed.

A: Pregnant elephant

P: Cont weekly transabdominal and monthly transrectal US of elephant

Cont. monitoring hormones as scheduled

Animal Care Staff Medical Summary

~

Calendar Items

Date	Title	Assigned To	Done
~	~	~	~