

## Wildlife Endocrinology Services

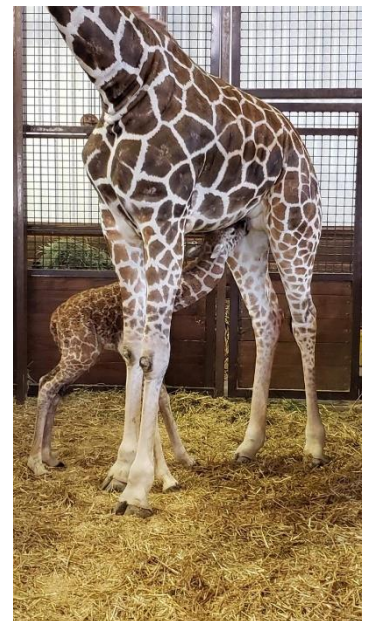
Kari A Morfeld, PhD; karimorfeld@yahoo.com

Morfeld Research & Conservation, LLC

*Customized endocrinology services to create a positive impact on the care and study of wildlife.*

### COMMON APPLICATIONS OF ENDOCRINOLOGY

- Monitoring **stress responses** to events such as:
  - Exhibit changes
  - Construction
  - Changes in social housing/management
  - Transfers
  - Diet changes
- Monitoring **female reproductive hormones**:
  - Reproductive status (immature, cycling, non-cycling, irregular)
  - Puberty assessment and capable of pregnancy
  - Reproductive cycles details (cycle length, ovulation days, etc.) to promote or prevent pregnancy
  - Diagnosing and monitoring pregnancy; estimating parturition date
  - Monitoring for changes in reproductive cyclicity due to social changes, diet, etc.
  - Management purposes to prevent or promote pregnancy either naturally or with assisted reproduction based on female cycles
- Monitoring **male reproductive hormones**:
  - Testosterone levels in males at various life stages
  - Changes in testosterone in different social arrangements
  - Relationship to breeding or semen quality
- Monitoring **metabolic markers** can help with:
  - Effects of diet on metabolic health and degree of fatness
  - Seasonal changes in metabolic health
  - Assess effectiveness of weight-loss strategies



### AVAILABLE TESTS

#### Reproductive Hormones

Progesterone  
Testosterone

#### Stress Hormones

Cortisol  
Corticosterone  
DHEA-S

#### Metabolic Markers

Insulin & Glucose  
Leptin  
Triglycerides

### SAMPLE TYPES

- Blood, fecals, urine, snake sheds, hair, feathers (validated for each species/hormone).

# ENDOCRINOLOGY & REPRODUCTIVE SERVICES

## Morfeld Research & Conservation, LLC

*Kari Morfeld, PhD*

*Wildlife Endocrinologist & Reproductive Physiologist*

*402-871-4458; karimorfeld@yahoo.com*

## ENDOCRINOLOGY SERVICES

Hormone	Price*
Cortisol	\$20
Corticosterone	\$20
DHEA (S)	\$20
Progesterone	\$20
Testosterone	\$20
Estradiol	\$20
Insulin	\$25
Glucose	\$10
Leptin	\$35
Prolactin	\$25
Triglycerides	\$10

\*Prices are for serum samples. Other assays available upon request.

**Fecal, Urine or Feathers:** Add \$5 per sample processing/extraction fee.

**Included:** Analyses of all samples in duplicate, and assay of dilutions if required. Results include a detailed Report including raw data, charts, and interpretations.

## REPRODUCTIVE SERVICES

- Semen collection, assessment, and banking
- Reproductive ultrasound assessment (male and female)
- Artificial insemination
- Body condition assessments & diet/management planning to promote optimal body condition

\$2,000 professional service daily fee + travel reimbursement