

SPIDER MONKEY

EVALUATED FOR TUBERCULOSIS



Costa Rica, Central America

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Three adult spider monkeys had been brought into a rehabilitation center and were in quarantine, waiting to be released. Their release was contingent upon a normal physical exam and negative tuberculosis test. They would be released back into the wild population in Costa Rica.

The monkeys were individually housed and able to be shifted into a smaller holding cage for restraint. They were hand held through the cage and injected with ketamine and medetomidine IM. Once the animal was deemed adequately sedated, it was removed from the holding cage for the physical exam, tuberculosis test, and blood draw for i-STAT analysis.

The **FIRST** spider monkey was immobilized with Ketamine 100mg/ml 0.7ml + Medetomidine 1mg/ml 0.5ml IM. She was recumbent and approachable in 5 minutes post-injection. On physical exam, her teeth were worn, some

broken, no loose teeth. Heart and lung sounds were clear and no arrhythmia or murmur was ausculted. Abdominal palpation was normal- no masses or organomegaly was detected. Blood was taken from the left femoral vein. The Tuberculosis test was performed using 0.1 cc mammalian tuberculin human origin in the upper left palpebrum. Sedation was reversed with Atipamazole 5mg/ml 0.5ml IM 40 minutes after the initial injection and she was sternal 10 minutes later.

At 72 hours, the tuberculosis test was read as negative and she was cleared for release.

VetScan i-STAT Blood Results	
Na	138 (mmol/L)
K	5.0 (mmol/L)
Cl	109 (mmol/L)
BUN	4 (mg/dL)
Glu	218 (mg/dL)
HCT	50%



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SPIDER MONKEY EVALUATION

The **SECOND** spider monkey was immobilized with Ketamine 100mg/ml 0.5ml + Medetomidine 1mg/ml 0.35ml IM. He was recumbent and approachable in 4 minutes. On physical exam, his teeth were worn, some broken, but had no loose teeth. His heart and lungs were clear with no arrhythmia or murmur ausculted. Abdominal palpation was normal- no masses or organomegaly were detected. Blood was taken from the left femoral vein. The tuberculosis test was performed using 0.1 cc mammalian tuberculin human origin in the upper left palpebrum. Sedation was reversed with Atipamazole 5mg/ml 0.35ml IM at 38 minutes after the initial injection. He was sternal 8 minutes later.

VetScan i-STAT Blood Results

Na	134 (mmol/L)
K	3.8 (mmol/L)
Cl	107 (mmol/L)
BUN	4 (mg/dL)
Glu	148 (mg/dL)
Creat	0.7 (mg/dL)
HCT	49%

At 72 hours, the tuberculosis test was read as negative and he was cleared for release.

The **THIRD** spider monkey was immobilized with Ketamine 100mg/ml 0.5ml + Medetomidine 1mg/ml 0.35ml IM. He was recumbent and approachable in 7 minutes. On physical exam, his teeth were worn, some broken, but had no loose teeth. Heart and lungs were clear, no arrhythmia or murmur was ausculted. Abdominal palpation was normal- no masses or organomegaly were noted. Blood was taken from the left femoral vein. The tuberculosis test was performed using 0.1 cc mammalian tuberculin human origin in the upper left palpebrum. Sedation was reversed with Atipamazole 5mg/ml 0.35ml IM at 39 minutes after the initial injection. He was sternal 5 minutes later.

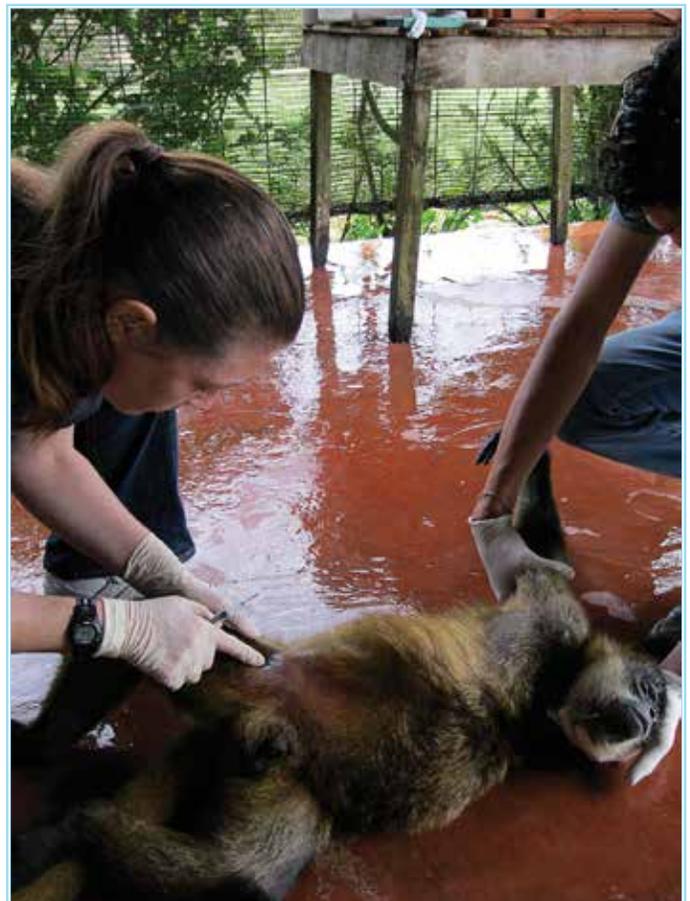
VetScan i-STAT Blood Results

Na	120 (mmol/L)
K	3.9 (mmol/L)
Cl	89 (mmol/L)
BUN	3 (mg/dL)
Glu	98 (mg/dL)
HCT	51%

At 72 hours, the tuberculosis test was read as negative and he was cleared for release.

Summary

The i-STAT was invaluable in assisting a privately funded rehabilitation facility evaluate animals for release into the general wild population. This facility does not have any other means of analysis since they are in such a remote part of Costa Rica. No other laboratory access was available, and other “patient-side” equipment would not have been practical for travel, set up, calibration, and operation in the heart of a Third World country. The “per-test” cost is very competitive in the market of blood analyzers and does not make our contributions to facilities such as this cost prohibitive.



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