

**SUMATRAN RHINO CONSERVATION CENTRE  
DEPARTMENT OF WILDLIFE AND NATIONAL PARKS  
SUNGAI DUSUN, SELANGOR  
MALAYSIA**

**MONTHLY REPORT**

**APRIL 2002**

**BY**

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**&**

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## **INTRODUCTION**

Seputeh was bred twice this month. The first breeding occurred on April 4 followed by the second one on April 26. However there was no breeding occurred on the females although they were mixed with Ara based on the progesterone results. As for Panjang and Minah still had a low level of progesterone.

The bleeding procedure was carried out as usual, twice weekly. As for the bred females, blood will be collected once a week.

## **RHINO MANAGEMENT**

### **A) Daily Management**

#### **i) Night stall**

##### *Daily work*

Adam, Shariff and Umor managed the night stalls. Shariff and Umor will clean the night stalls daily while Adam will inspected the food supply when it arrived around 9.30 a.m. The browse and fruits were weighed and cleaned before giving to the rhinos. About 40 to 50 kg of browses and 7kg of fruits including papaya, banana and sweet potatoes were given daily. The rhinos were also given horse pellet about 2.0kg every morning. Every Monday and Thursday morning, blood samples will be collected from all rhinos.

##### *The rhinos*

The rhinos were let out first before cleaning the night stalls. After cleaning, the browses were put in the feed trough and the rhinos were let in for their morning meal. The drinking water was changed daily and stress vet (multi-mineral powder) was mixed inside it. Daily observation was made and recorded in the workbook for each rhino. The rhinos were fed twice daily: 9.00 a.m. and 3.00 p.m.

#### **ii) Ten acres enclosure**

##### *Daily Work*

Mohd Noor inspects the electric fencing every morning. The fencing was cleaned from any foreign objects such as spider web, dried leaves or creepers to avoid short circuit. Voltmeter was used to ensure that the voltage of the fencing is about 7.0 kV. They will also inspect the fencing for any damages.

During the inspection, the ranger will looked for the rhino inside the enclosure and called the rhino for their morning meal. The rhino was confined in the quarter acre first before putting their browse in the feeding trough. The amount given was about 100kg for each rhino per day.

## **B) Breeding Program**

### **i) Breeding Introduction**

Based on the blood result, Seputeh was mixed with Ara starting from April 2 and positive behaviour was observed on morning April 4. About four mounting was recorded without any successful intromission. The rhinos were separated since the male looked tired. The two rhinos were kept side by side in the paddock and night stall for 'teasing'. In the afternoon, Seputeh and Ara were mixed again and she was bred for about 40 minutes. After the breeding, semen was collected from the ground and was examine under the microscope and there were a few active sperm observed. The female was also left in the barn for 30 minutes to collect some semen but failed.

On her next cycle (about 21 days later), she was also bred. On april 26, Ara bred Seputeh for 15 minutes in the morning but the pair was separated after several mountings and the male looked very tired. The rhinos were mixed again in the afternoon and she was bred for about 35 minutes. Semen collection was attempted but failed.

As for Mas Merah, she was mixed with Ara on April 5 but aggression occurred and the rhinos were separated. Mas Merah only suffered minor injuries and was treated.

### **ii) Bleeding Program**

#### **a) Blood Collection**

The bleeding was still carried out twice weekly. As for the bred females, the blood was collected once a week. The blood procedure was summarized in Table 1.

#### **b) Progesterone Hormone Profile**

The latest blood result was attached below.

## B) HEALTH STATUS

Generally, all rhinos are in the good condition. Minah still recovering from the weight loss and she was weighed on weekly basis. The other rhinos were weighed monthly. Both weighing results are tabulated below.

**Table 3: Rhinos' Body Weight (Kg), April 2002**

Month/ Rhino ID	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
RIMA	552	542	542	554								
MAS MERAH	612	590	578	586								
MINAH	462	450	476	476								
SEPUTIH	738	752	742	736								
PANJANG	532	*	523	512								
ARA	610	588	574	574								

### REMARKS:

\* In the 10 acres enclosure

**Table 4: Minah's Weekly Body Weight (Kg), April 2002**

Rhino ID / Date	9/4	16/4	26/4	30/4
Minah	470	476	476	492

## C) FEEDING

No changes were made for the feeding program. A contractor will supply the browses, which deliver them around 9.00 a.m. daily. The feed was checked to ensure their quantity and quality upon receiving them. They were cleaned and weighed before giving to the rhinos. The rhinos were given about 40 kg of browses and 7.0g of fruits daily. All rhinos were given horse pellets to increase their body weight.

**Table 1: Blood Collection from the Rhinos, April 2002**

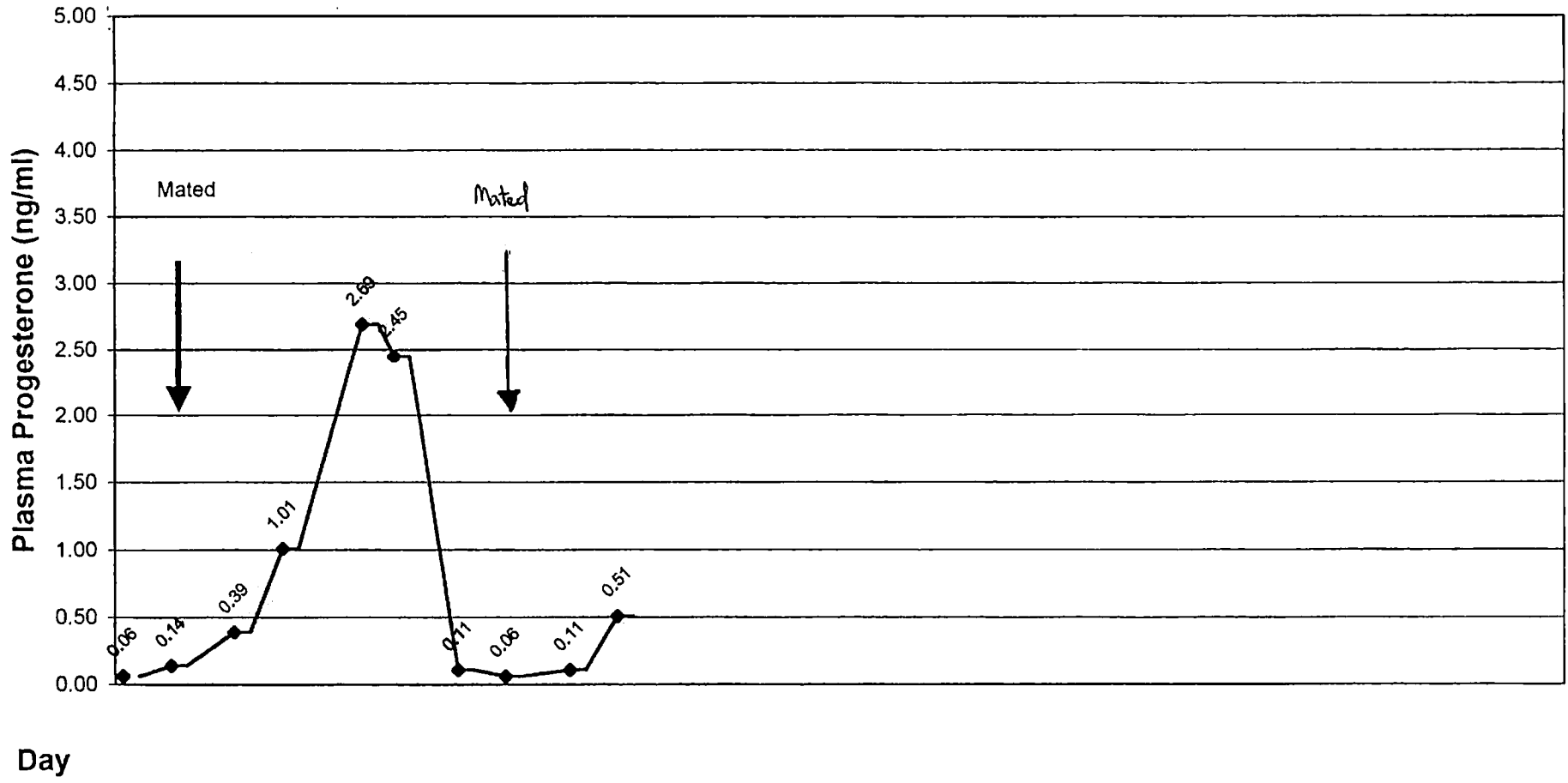
<b>Date</b>	<b>Rhino ID</b>	<b>Area taken</b>	<b>Remarks</b>
April 1	Minah Mas Merah Panjang Rima Seputeh Ara	Tail Tail Tail Tail Tail Tail	Samples were taken from these females for P4 analysis. Blood was taken from the males for testosterone analysis.
April 4	Rima Panjang Mas Merah Ara	Tail Tail Tail Tail	Samples were taken from the females for P4 analysis. Blood was taken from the males for testosterone analysis.
April 8	Rima Seputeh Minah Mas Merah Panjang Ara	Tail Tail Tail Tail Tail Tail	Blood was taken for the P4 and testosterone analysis
April 11	Minah Seputeh Panjang Mas Merah Ara	Tail Tail Tail Tail Tail	Samples were taken from all rhinos for P4 and testosterone analysis.
April 13	Rima Mas Merah Minah	Tail Tail Tail	Get samples via tail from the three females only.
April 16	Minah Mas Merah Panjang Rima Seputeh Ara	Tail Tail Tail Tail Tail Tail	Blood was taken for the P4 and testosterone analysis
April 18	Minah Seputeh Mas Merah Panjang Rima Ara	Tail Tail Tail Tail Tail Tail	Blood was taken for the P4 and testosterone analysis

<b>Date</b>	<b>Rhino ID</b>	<b>Area taken</b>	<b>Remarks</b>
April 22	Minah Seputeh Mas Merah Panjang Rima Ara	Tail Tail Tail Tail Tail Tail	Blood was taken for the P4 and testosterone analysis
April 25	Minah Rima Seputeh Panjang Mas Merah Ara	Tail Tail Tail Tail Tail Tail	Samples were taken from all rhinos for P4 and testosterone analysis.
April 29	Minah Mas Merah Panjang Rima Seputeh Ara	Tail Tail Tail Tail Tail Tail	Samples were taken from these females for P4 analysis. Blood was taken from the males for testosterone analysis.



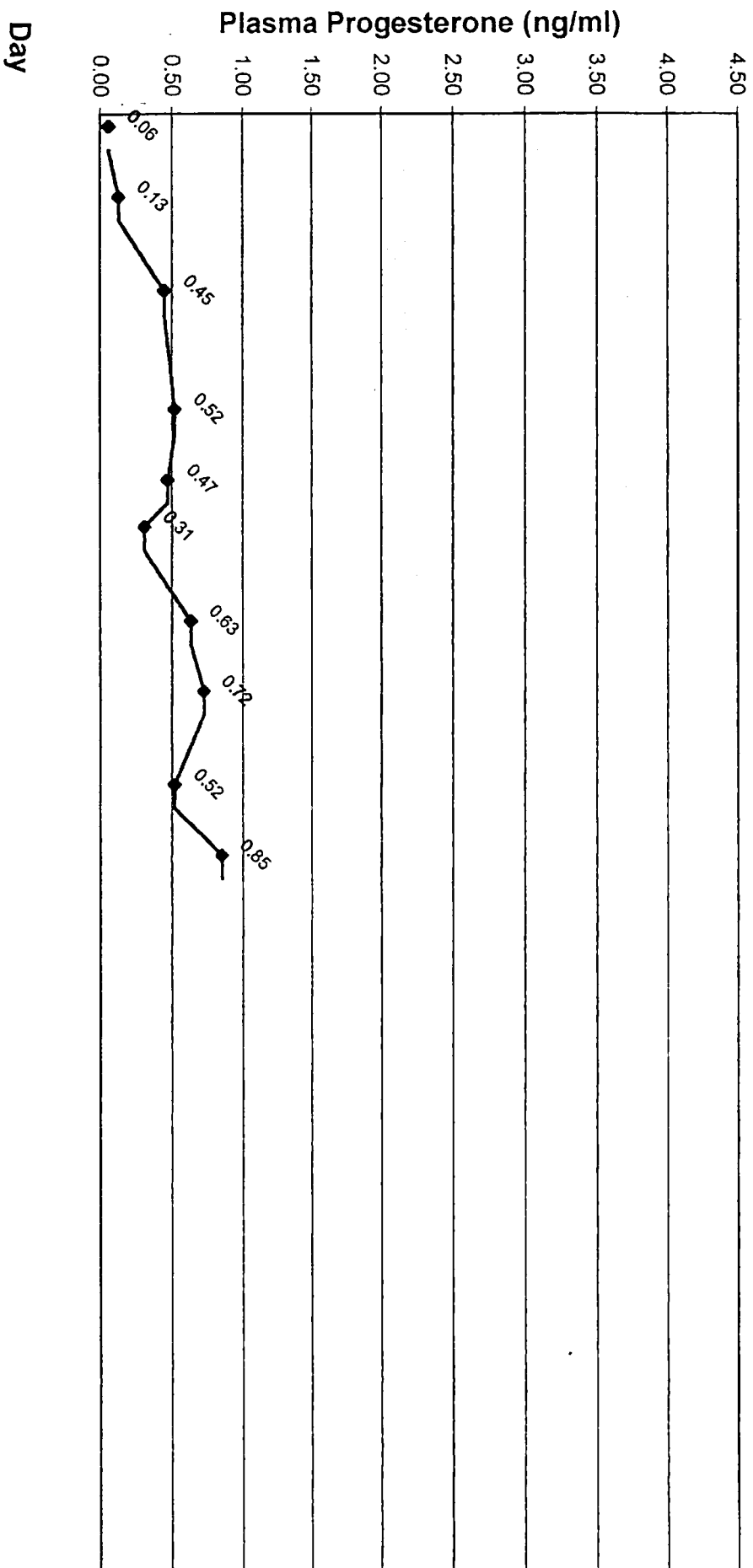
# SUMATRAN RHINO

## Seputih Plasma Progesterone Profile 2 - 2002



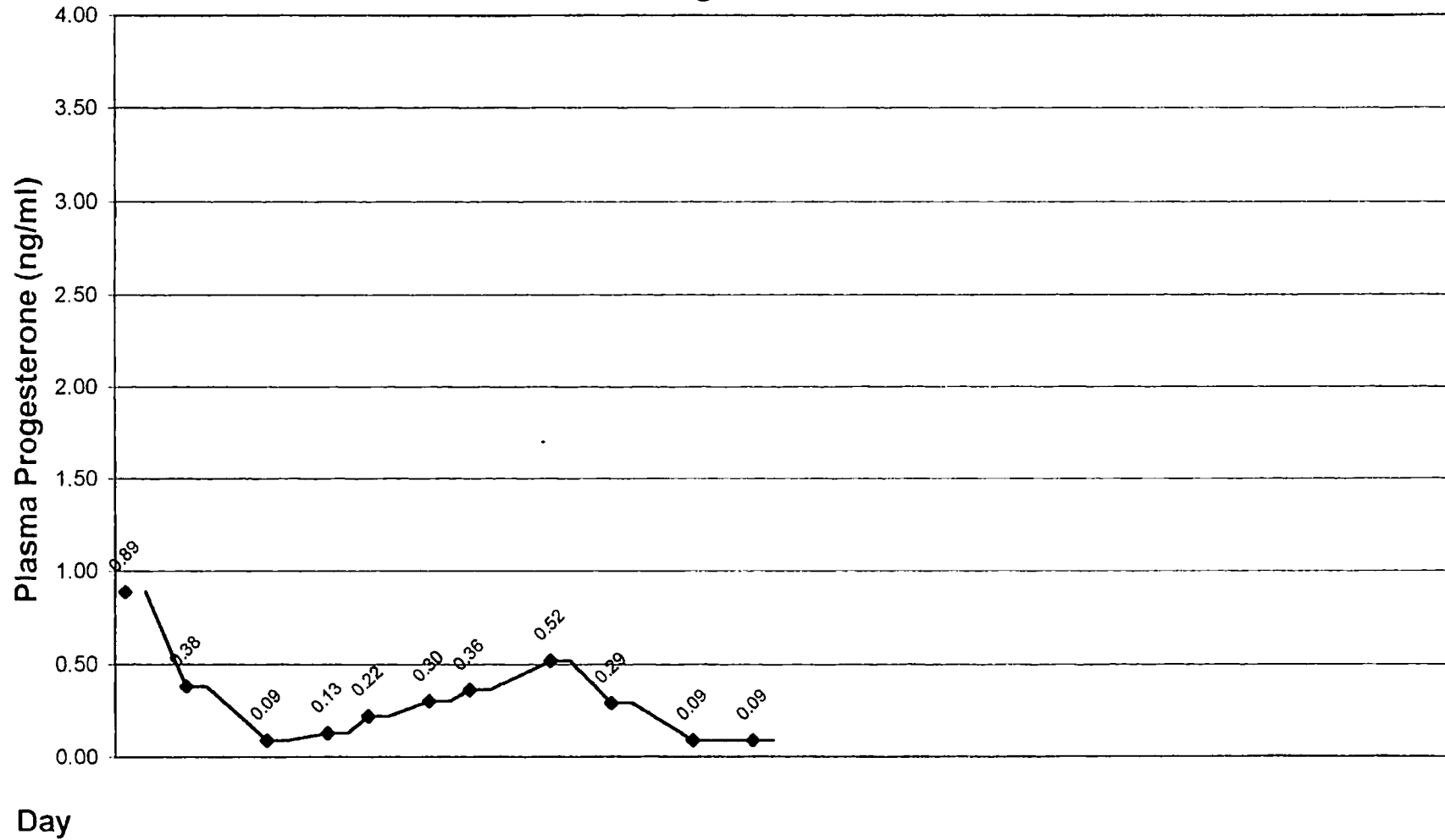


SUMATRAN RHINO  
Rima Plasma Progesterone Profile 2 - 2002

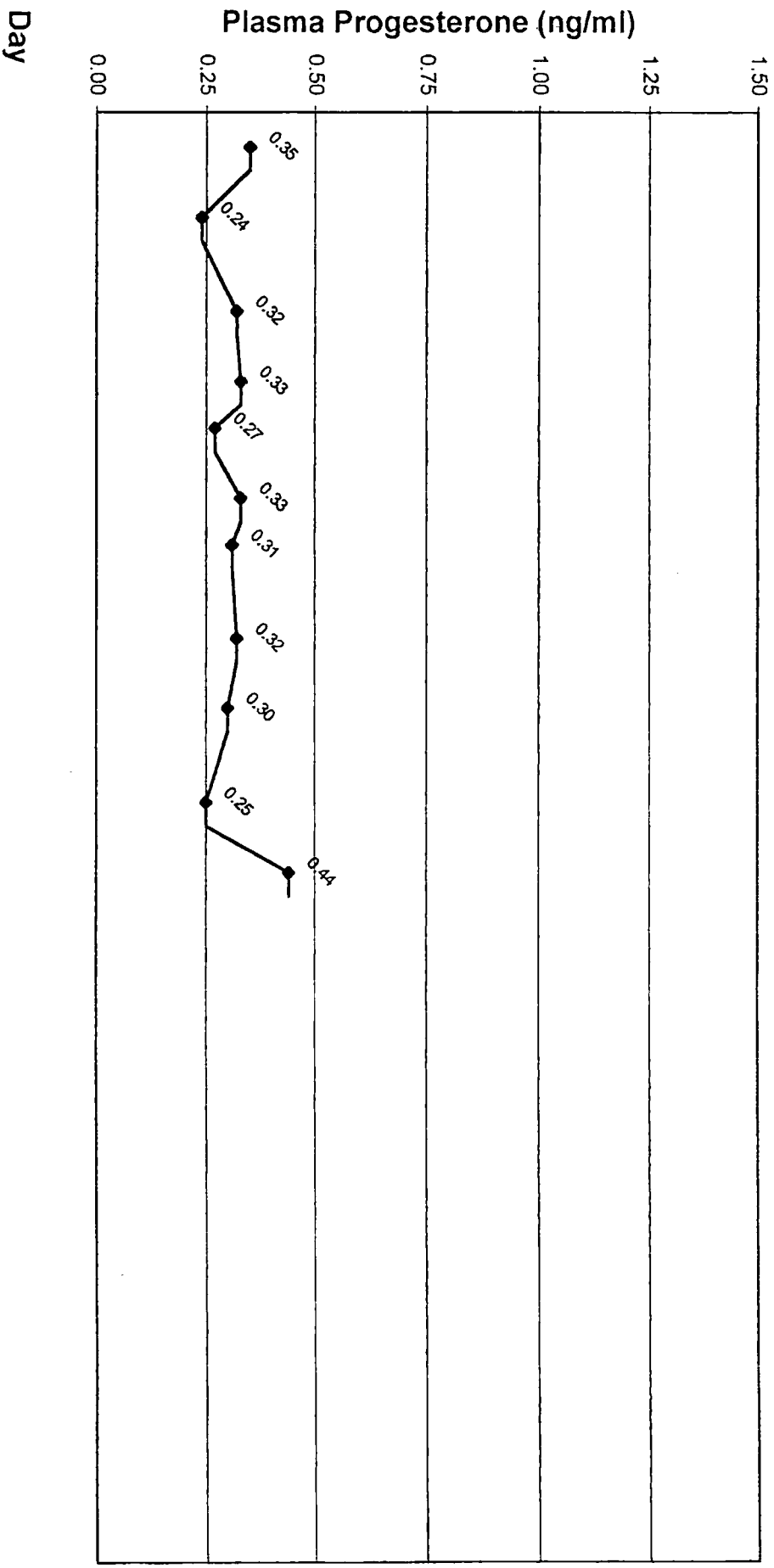


# SUMATRAN RHINO

## Mas Merah Plasma Progesterone Profile 2 - 2002



**SUMATRAN RHINO**  
**Minah Plasma Progesterone Profile 2 - 2002**



**SUMATRAN RHINO**  
**Panjang Plasma Progesterone Profile 2 - 2002**

