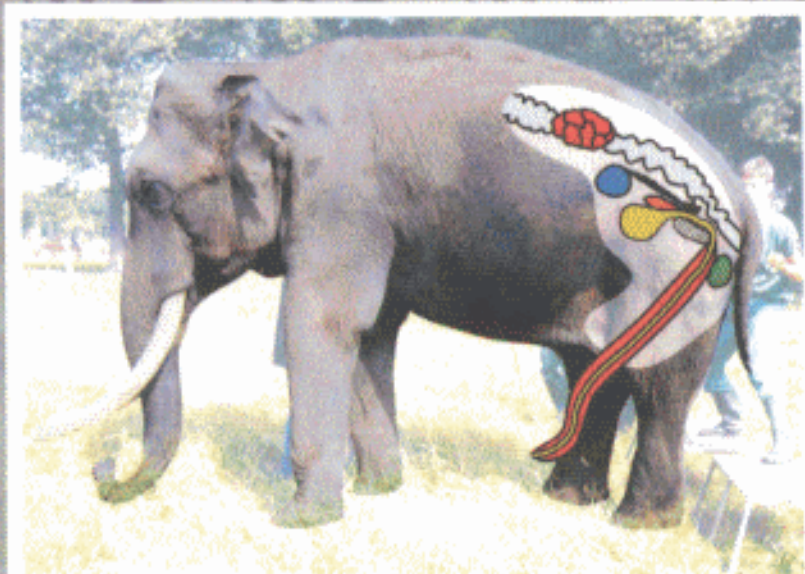




สำนักเลขาธิการนายกรัฐมนตรี



Assessment and Management of Reproductive System

*in* **Asian Elephants**

# CONTENT

## Introduction

- Reproduction Problems of Asian Elephants (*Elephas maximus*) in Thailand 10  
*P. Ratanakorn*

- New Aspects of Breeding Management in Captive Asian and African Elephant 13  
*T. Hildebrandt*

- Techniques of Assisted Reproduction - New Possibilities to Support and Control the  
Reproduction in Asian and African Elephants 15  
*F. Göritz, et.al*

## Restraint of Elephant for Reproductive System Assessment

- Training Elephants for Reproductive Accessment Procedures 25  
*H. Schwammer*

- Sedation of Thai Working Elephants with Xylazine and Atipamizole  
as a Reversal 31  
*W. Rietschel, et.al*

## Application of Ultrasonography in Elephants

- Ultrasonography as an Important Tool for the Development and Application of  
Reproductive Technologies in Non - Domestic Species 36  
*T. Hildebrandt, et.al*

- Assessment of Health and Reproductive Status in African and  
Asian Elephants by Transrectal Ultrasonography 48  
*T. Hildebrandt, et.al*

## Male Elephants

- Reproductive Assessment by Ultrasonography in Elephants.  
I Sonomorphology of the Male Urogenital Tract 55  
*T. Hildebrandt, et.al*

- Manual Collection and Characterization of Semen from Asian Elephants (*Elephas maximus*) 75  
*D. L. Schmitt and T. Hildebrandt*

- Semen Collection in Wild African Elephants by Electrostimulations (ES) 81  
*F. Göritz, et.al*

## Female Elephants

- Ultrasonography of the Urogenital Tract in Elephants (*Loxodonta africana* and *Elephas maximus*) : An Important Tool For Assessing Female Reproductive Function 83  
*T. Hildebrandt, et.al*

- Ultrasonography of the Estrous Cycle in Female African Elephant 96  
(*Loxodonta africana*)  
*R. Hermes, et.al*

- Ultrasonography and Pathology of Genital Tract Leiomyomas in Captive Asian Elephants 110  
: Implications for Reproductive Soundness  
*R. J. Montali, et.al*

- Dystocia in Zoo Elephants 118  
*F. Göritz, et.al*

## Artificial Insemination

- Artificial Insemination (AI) of an Asian Elephant (*Elephas maximus*) 125  
*T. Hildebrandt*

- Successful Artificial Insemination of African Nulliparous Elephants 126  
at the Indianapolis Zoo  
*T. Hildebrandt, et.al*

- Artificial Insemination in the African Elephant "Sabi" at the Vienna Zoo - a Tour Behind 130  
the Scenes.  
*T. Hildebrandt, et.al*

## Annex

- The Trouble with Endotheliotropic Elephant Herpes Virus (EEHV) 134  
*J. Fickel*

- Aspects and Methods of Elephant Foot Care in Zoos and Elephant Camps 138  
*H. Schwammer*

- Acknowledgements 142

- Curriculum Vitae 143