RETINAL PHOTOGRAPHY IN ANIMALS*†

BY

K. C. BARNETT

Department of Veterinary Clinical Studies, School of Veterinary Medicine, University of Cambridge

AND

C. R. KEELER

London

Retinal photography in animals is a useful aid to veterinary teaching and diagnosis and to both medical and veterinary research. It has been in use since 1930, when Leonardi first took animal fundus photographs, and a few years later Huber (1937) photographed the dog's retina. The subject is discussed by Saurer (1947), Catcott (1952), Luginbühl (1958), Byrom (1963), Barnett (1963), Donovan and Wyman (1964), and Barnett and Keeler (1967).

Method

We have found that the Kowa hand-held fundus camera is simple to use; it is portable and rarely requires general anaesthesia or tranquilization. If the animal is in darkened surroundings, a mydriatic is often unnecessary. Minimal restraint, provided by one assistant, is all that is required for both large and small animals. The eyelids are separated with the first finger and thumb of the left hand and the front of the camera is rested on the left thumb to steady the apparatus and prevent the light projection prism from touching the cornea. Reflex viewing allows the fundus to be focused.

The intensity of the strobo flash can be varied, and the following settings are suggested for various animals using colour reversal film rated at ASA 25 (15 DIN):

- Human Max.
- Monkey Max.
- Horse 6 or 7
- Donkey 6
- Ox 7
- Sheep 7 or 6
- Pig 6
- Dog 5
- Cat 4 or 3

A wide range of domestic and wild animals has been successfully photographed (Figs 1 and 2, and Fig. 3a–d, page 201).

Fig. 1.—Fundus of the cat.

Fig. 2.—Fundus of the horse.

* Received for publication February 14, 1966.
† Address for reprints: K. C. Barnett, as above.


**Fig. 3.** - Fundus of four ruminants.

We wish to acknowledge the help given by Oliver Graham-Jones, F.R.C.V.S., Senior Veterinary Officer to the Zoological Society of London, and the assistance of Miss M. W. Fogg and Mr. L. Gray at the School of Veterinary Medicine, Cambridge. K. C. Barnett held a Leverhulme Fellowship while this work was in progress.

**REFERENCES**


Retinal photography in animals.

K C Barnett and C R Keeler

Br J Ophthalmol 1968 52: 200-201
doi: 10.1136/bjo.52.2.200

Updated information and services can be found at:
http://bjo.bmj.com/content/52/2/200.citation

Email alerting service
Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Notes

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/