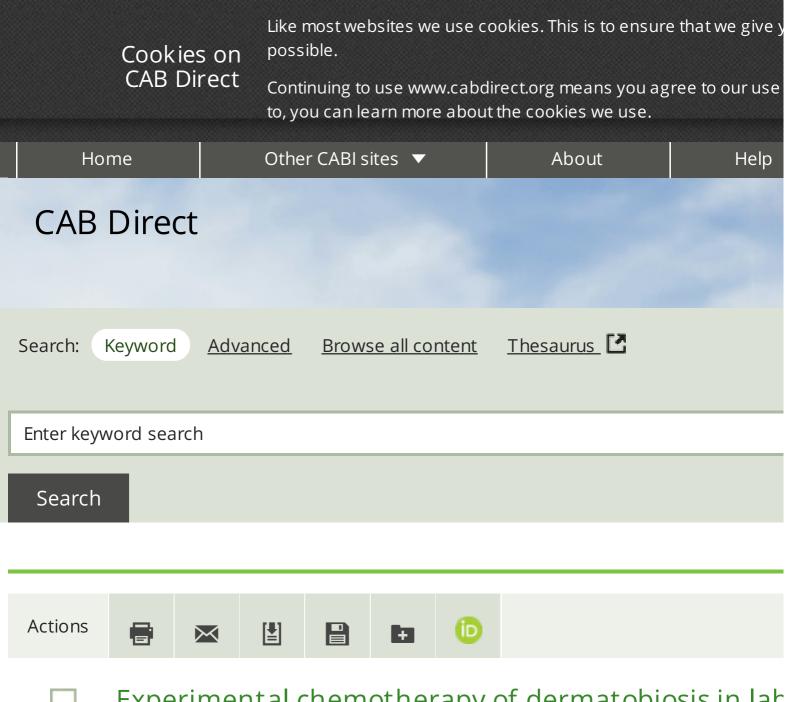
Experimental chemotherapy of dermatobiosis in laboratory animals.

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Abstract: *Dermatobia hominis* causes serious damage to cattle hides, with losses in the leather industry; and occasionally there are human infections veven be fatal. Laboratory studies of chemotherapeutic agents have been merevious workers, using houseflies as egg carriers to infect moderate-sized as goats, dogs or rabbits. Smaller laboratory animals would, however, be an

because of the large numbers of experiments necessary in screening samp. The authors have obtained large numbers of bots (well grown larval *D. hon* slaughterhouses, as well as from calves infected in the laboratory. When the and pupate, the pupae are kept in sawdust, at 28 °C and 70 to 95% relative. When the adult flies emerged they were kept in 25 X 25 X 25 cm cages. How reared, on a powdered milk and water larval diet, at 25 °C. Groups of 200 how caged with varying numbers of *D. hominis* flies (up to 40). The flies were late for *D. hominis* eggs (the numbers of egg-carrying flies were roughly equal numbers of *D. hominis* per cage). Eggs taken from these houseflies 6 to 8 chatched within a minute on transferring to the palm of a hand and could the transferred to experimental animals.

The animals thus infected comprised: 340 rats, 30 hamsters, 30 mice and 2 the smaller animals, the infections caused the following mortalities: 77% of hamsters; 0.8% rats.

The rats were thus satisfactory for use in chemotherapeutic trials, carried c metriphonate (triehlorphon), which is known to be effective against warble. The results showed complete kills of *D. hominis* maggots by doses of 300 r (administered either percutaneously or orally) and about 25 to 60% at 50 m. The calf infections were maintained to determine the major drop-out period this occurred at the 5th week after infection. It was concluded that complete *hominis* in the laboratory could be maintained with bovines, and therapeutic with rats. *J. R. Busvine*

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Identifier(s): chemotherapy, chlorofos, chlorophos, house fly, metrifonate, slaug torsalo, trichlorphon

Broader term(s): Bos, Bovidae, ruminants, Artiodactyla, mammals, vertebrates, (animals, eukaryotes, Cuterebridae, Diptera, insects, Hexapoda, arthropods, inver Dermatobia, Canis, Canidae, Fissipeda, carnivores, Capra, Cricetinae, Muridae, rollominidae, primates, Musca, Muscidae, Leporidae, Lagomorpha

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