

# 6. Services and Supplies

## 6.1. Arthropod colonies (Dr. C. Sadanandane & Dr. R. Srinivasan)

Cyclic colonies of the following species of insects are being maintained in the Rearing & Colonization laboratory.

The following three species of larvivorous fishes are also being maintained in the Centre.

### Mosquitoes (Diptera: Culicidae)

*Culex quinquefasciatus*

*Anopheles stephensi*

*Aedes aegypti*

*Toxorhynchites splendens*

*Aplocheilus blochii*

*Gambusia affinis*

*Poecilia reticulata*

### Houseflies (Diptera: Muscidae)

*Musca domestica*

### Parasitoids (Hymenoptera: Chalcidae)

#### & Pteromalidae

*Dirhinus himalayanus*

*Spalangia sp.*

*Pachycrepoides sp.*

Supplies from Rearing & Colonization laboratory to various laboratories in VCRC and outside institutions are given in Table 6.1.

Table 6.1. Supplies from Rearing and Colonization Division to different laboratories

pecies	Internal (within VCRC)			External	Total
	Vector Biology & Control	Product Development	Human Resource Development	Pondicherry University	
<i>Culex quinquefasciatus</i>					
Immature stages	17500	294100	83250	6000	400850
Adults	1900	67100	600	--	69600
<i>Anopheles stephensi</i>					
Immature stages	12500	117000	35750	5000	170250
Adults	40430	6400	--	--	46830
<i>Aedes aegypti</i>					
Immature stages	12100	87350	12800	2000	114250
Adults	250	1200	--	--	1450
<i>Musca domestica</i>					
Immature stages					
Adults					

## 6.2. Laboratory animal facility

The laboratory animal facility of the Centre, registered by the Committee for the Purpose of Control and Supervision of Experiments on Animals, Government of India, has animals such as 50 Mongolian gerbils, 42 Wistar rats, 23 Swiss Albino mice and 51 BALB/c mice. These animals are being maintained through regular health care monitoring by a visiting veterinarian. Among these animals, mice are used for immunological characterization of peptide produced in mosquitoes during filarial parasite development. Rats and gerbils are used for *in vivo* testing of compounds for macrofilaricidal activity.

## 6.3. Clinical services

All the individual patients with lymphoedema visiting the clinic at VCRC and Cluny Hospital were trained in limb hygiene for home-based self-care. Apart from this, supportive physiotherapy and drugs for symptomatic relief were provided. During the reporting period, 1278 patients made use of the clinical service (Table 6.2). A total of 510 patients were examined for circulating filaria antigen (CFA) by Og4C3 assay and 158 (31%) were found to be positive for CFA. ICT was done for 27 patients and eight (29.6%) were positive for CFA. Night blood smear examination for Mf was done for 1511 persons and 50 were found to be positive.

Table 6.2. Clinical services provided to filarial patients

Type of clinical case Lymphoedema Grade	Number of Patients				Total No. of visits	
	New		Old		VCRC	Cluny
	VCRC	Cluny	VCRC	Cluny		
Grade I	21	6	125	16	177	94
Grade II	42	11	538	32	640	219
Grade III	21	10	236	26	317	425
Grade IV	8	4	107	5	130	26
Hydrocele	4	-	-	-	5	-
Others	66	-	-	-	66	-
Total	162	31	1006	79	1335	835