

KUDANKULAM NUCLEAR POWER PROJECT CLINICAL SURVEY REPORT



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**COMMUNITY MEDICINE DEPARTMENT,
TIRUNELVELI MEDICAL COLLEGE,
TIRUNELVELI - 627 011. TAMILNADU.**

APRIL - MAY 2002

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POWER PROJECT
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A PROJECT FINANCED
BY
NUCLEAR POWER CORPORATION OF INDIA LIMITED
MUMBAI.

PRINCIPAL INVESTIGATORS.

Dr. V. VAIRAMANI, Dr. M. R. VAIRAMUTHU RAJ, M.D.,
Prof and Head (in charge), Mr. N. KANDASAMY, M.Sc.,
Community Medicine Department, Mr. P.ARUMUGAM, M.A., M.P.S.,

TIRUNELVELI MEDICAL COLLEGE AND HOSPITAL,
TIRUNELVELI,
TAMIL NADU.

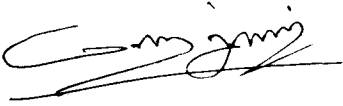
CO-ORDINATOR

Shri. S. K. MANJUNATH
Chief Engineer, K.K. Project,
NPCIL , MUMBAI.

KUDANKULAM NUCLEAR POWER PROJECT CLINICAL SURVEY REPORT

CERTIFICATE

The clinical survey was conducted in the form of Medical Camps among the population residing within 5 Kilometers radius of the proposed Nuclear Power Project at Kudankulam. The Medical Camps were conducted by teams of Medical experts, CRRIs and other officials of Tirunelveli Medical College and Hospital, Tirunelveli under our guidance.



Dr. M.R. Vairamuthu Raj,
Asst. Professor.



Dr. V. Vairamani,
Prof. and Head (in charge),
Community Medicine Department.

**Tirunelveli Medical College and Hospital,
Tirunelveli - 627 011.
Tamil Nadu.**

FOREWORD

The Nuclear Power Corporation of India Limited (NPCIL) Government of India awarded a Consultancy Service Contract to our Institution, Tirunelveli Medical College and Hospital, Tirunelveli, Tamil Nadu to prepare a base-line data to evaluate the socio-economic status as well as the health status particularly the various types of cancer cases and congenital abnormality cases available in the population living within 5 Kms. radius around the project site.

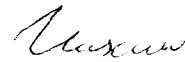
As such, the work was designed to carry out in two phases viz.

- a) Epidemiological Survey and
- b) Clinical Survey.

The Community Medicine Department was entrusted to carry out the above said two survey works. The Epidemiological Survey was done during April to June-2001 and the findings were furnished delineating the availability of different types of cancer cases, congenital abnormality cases and cataract cases.

Based upon the observations made in the Epidemiological survey, the clinical survey was designed in the form of conducting Medical Camps by utilizing the services of the various faculties of this Institution to confirm the cancer cases and congenital abnormality cases. As such, the experts of our institution did all investigations by Histological, Haematological and Radiological methods to the reporting cases. The clinical survey was conducted during April to May-2002. The observations were highly illustrative and informative in all respects.

Finally, I do fervently hope that the clinical survey report would supplement all information regarding the pre-operational health status of the population living in the area of Kudankulam, which may be useful in the years to come for evaluation and comparative purposes.



Dr.(Tmt). VASANTHA BABU, M.D., (Micro)
Dean,
Tirunelveli Medical College and Hospital,
Tirunelveli - 627 011. Tamil Nadu.

ACKNOWLEDGEMENT

At the outset, we gratefully acknowledge the NPCIL, Mumbai for providing us the opportunity to carry out both the Epidemiological and Clinical survey and for giving necessary financial assistance in this regard.

Also, we would like to place on record our sincere appreciation to the officials of NPCIL particularly to Padmashri. Shri. V. K. Chaturvedi, Chairman and Managing Director; Shri. S. K. Jain, Director, KKNPP (LWR), Shri. S. K. Agarwal Project Director, K.K. Project, Shri. S.K. Manjunath, Chief Engineer, Shri.G. Raghunathan Engineer-in-charge (Retd) K.K. Project, Shri. S. Kalirajan and Shri. B. R. Kubendran Engineer-in-charge for their co-operation and co-ordination for the entire survey work.

We thank the Collector of Tirunelveli District for moral support and co-operation during the course of this survey work. And, we wish to acknowledge with gratitude the leadership role in planning this Clinical Survey Consultancy Contract by Dr. (Tmt) Vasantha Babu M.D., (Micro) Dean, Tirunelveli Medical College and Hospital, Tirunelveli.

We are also grateful to all Professors and Head of the Departments, various medical team experts, and staff of Tirunelveli Medical College and Hospital, Tirunelveli. Also we thank the staff of Excel Hitech Hospital, Vallioor, L & T. Ltd Primary Health Centres, Kudankulam and Sankanapuram and local private school authorities for their kind co-operation and co-ordination in conducting the clinical survey work successfully.

CLINICAL SURVEY REPORT

INTRODUCTION

As per the consultancy service contract of the NPCIL, Mumbai with the Tirunelveli Medical College in December 2000, the Community Medicine Department of Tirunelveli Medical College had undertaken a health survey of the persons living in the villages (mainly in the 3 Panchayat areas viz. Kudankulam, Vijayapathi & Irukkanthurai) within 5 kms. radius around the proposed K.K. Nuclear Power Project. The survey work was designed to carry out in two phases viz.

- a) Epidemiological survey and
- b) Clinical Survey.

As such, initially the Epidemiological survey was done during April to June 2001, mainly focussing attention to detect the prevalence of

- i) Different types of cancer cases.
- ii) Congenital abnormality cases and
- iii) Cataract cases.

available in the areas to compile a base line data profile of the health status of the people with the above kind of diseases. In addition, the survey work was carried out to study the socio-economic and life style practices of the people and also to assess the morbidity of the above cases to find out any risk factors available in the locality before the commissioning of the Nuclear Power Project there as a token of base line survey.

The Epidemiological survey study revealed the following.

A) STUDY POPULATION

S. No	Name of the Panchayat Villages	Total Population	Sex	
			Male	Female
1.	Kudankulam	9335	4688	4647
2.	Irukkanthurai	3569	1770	1799
3.	Vijayapathi	9352	4609	4743
Total		22256	11067	11189

B) STUDY DESIGN OF DISEASES.

By the supply of relevant proforma by the NPCIL authorities, the Epidemiological survey work was carried out by making house to house survey by medical staff members of Tirunelveli Medical College viz. Doctors, CRRIs and para-medical staff and with the help of Kudankulam and Sankanapuram Primary Health Centre staff also.

There were 33 clinically confirmed cases of cancer and 101 suspected cancer cases and 45 cases of congenital abnormalities were observed in the survey population.

Since the response from public was mixed, the Epidemiological survey has its own limitations.

CLINICAL SURVEY- METHODOLOGY

Based upon the observations made in the Epidemiological survey, the Clinical survey work was designed in the form of conducting medical camps in the above 3 panchayat areas with the following objectives.

OBJECTIVES

- a) To confirm the suspected cancer cases identified during the Epidemiological survey.
- b) To find out any omission and commission of cases under clinically confirmed as well as suspected nature of cases and in the congenital abnormality cases.
- c) To take photography of all the cases of above category for reference and finally
- d) To confirm the cases, which were provisionally reported as confirmed cases in the Epidemiological survey are to be confirmed once again by the expert medical team members of Physicians, Gynaecologists, Surgeons, Pathologists and Oncologists etc... by way of various investigation technologies.

ORGANIZATION OF MEDICAL CAMP

The medical camp was arranged and conducted during April to May 2002 in the 5 selected places of the above 3 panchayat villages as follows, depending upon the local convenience of the public to attend the camps.

S. No	Date of Medical Camp	Name of the village / place where camp was conducted
1.	20-04-02	Idinthakarai
2.	23-04-02	Kudankulam
3.	25-04-02	Vijayapathi
4.	29-04-02	Irukkanthurai
5.	02-05-02	Sankaneri.

The medical camp was arranged to conduct from 8.00 am to 2.00 pm to investigate the reporting cases by the experts by Histological, Haematological and Radiological examinations. In the after-noon of the camp day, it was decided to bring the left out cases for investigation purposes by the team members. Thus, the camp arrangements and facilities were made known to the public through small notices, (handbills) wall posters, banner cloths and through loud speaker announcements for a period of one week before the commencement of the medical camp. The services of the local voluntary organizations and staff members of Kudankulam Primary Health Centre and Sankanapuram Primary Health Centre were also utilized for the camp arrangements work and collections of patients from the nearby village areas.

The following personnel were involved in the medical camp.

FACULTY MEMBERS FROM TVMC & OTHER PLACES.

1. Dr. V. Vairamani, Prof. i/c. C.M. Dept. (Co-ordinator of the Camp).
2. Dr. R. Vairamuthu Raj, M.D., Physician,
3. Dr. M. Paulraj, M.D., Physician,
4. Dr. Tmt. K. Parimalam, M.S., Surgeon
5. Dr. V. Paramasivam M.D., (F.M) Pathologist.
M.D., (Pathology)
6. Dr. K. Swaminathan, M.D., Pathologist
7. Dr. R. Andrew Jebakumar M.B.B.S., DMRD , Radiologist,
8. Dr. Tmt. Valli Iyyappan M.B.B.S., D.G.O., Gynaecologist.
9. Dr. Tmt.P. Uma maheswari M.B.B.S., D.G.O., Gynaecologist.
10. Dr. H. Muthukrishnan M.D., D.M., Dip. N.B., Oncologist
11. Dr. M. Sekar M.B.B.S., D.C.H Paediatrician
12. Dr. M.Ganesan M.B.B.S., G.H. Radhapuram, Sonologist

ORGANIZERS OF THE MEDICAL CAMP.

1. Dr. V. Vairamani , Prof. (in –charge)
2. Dr. M. R. Vairamuthu Raj, Asst. Professor,
3. Mr. N. Kandasamy- Entomologist,
4. Mr. P. Arumugam –Lecturer in Statistics & Demography

MEDICAL TEAM MEMBERS(CRRIs)

1. Dr. Maheswari
2. Dr. Pradeepa Joesph
3. Dr. Punitha Meenakshi
4. Dr. Rajkumar
5. Dr. Ganaga Lakshmi
6. Dr. Radhika
7. Dr. Raj Kishore Singh,
8. Dr. Pradeep Prem Kumar
9. Dr. Pradeesh
10. Dr. Manoj Kumar.
11. Dr. Jawahar Raja Rathinam

PARA -MEDICAL STAFF OF TVMCH

1. Mrs. K. Rajalakshmi, Staff Nurse, TVMCH
2. Mr. T. Arul David, Staff Nurse, TVMCH.
3. Mr. M.Avudaiyappan, Pharmacist, TVMCH.

PARA -MEDICAL STAFF OF P.H.Cs

1. Mr. P. Eswaran, Health Inspector
2. Mrs. Balammal, Village Health Nurse
3. Mrs. F. Raja Poorani, Village Health Nurse
4. Mrs. Lizi, Village Health Nurse
5. Mr. R. Soundra Rajan, Health Inspector
6. Mrs. R. Sankara Vadivoo, Village Health Nurse

LOCAL VOLUNTEERS.

The services of staff members of St. Lourdu's Hospital at Idinthakarai, Kasthuri Hospital at Kudankulam and Excel Hitech Hospital at Vallioor were utilized for camp to assist the medical team members and experts.

MEDICAL INVESTIGATIONS

Totally 1215 patients were turned up for medical camp as out-patients and nearly 628 patients were screened for Histological, Hematological, Gynaecological and Radiological investigations and examinations as outlined hereunder.

a) X-rays	45
b) Ultra Sonogram	492
c) PAP smear, FNAC & Biopsy	112
d) E. C. G	226
e) Blood and Urine	547
Total examinations	<u>1,422</u>

All the ailing patients were given treatment on the camp day itself with adequate drugs and some of the cases were referred to nearby hospitals (G.H. Radhapuram, and P.H.Cs Kudankulam & Sankanapuram) and to Tirunelveli Medical College Hospital for further management.

The slides collected from the suspected cases of cancer were sent for cytological investigation at the Pathology Department of the Tirunelveli Medical College, where 3 cases were confirmed as cancer cases.

In addition, as many as 14 pre - cancerous cases were also recorded from the turned up new out - patient cases by the Pathology Department.

The age and sex wise classification of the patients attended the medical camp is given in Table No. 1.

TABLE NO 1.

Age and sex wise distribution of patients attended medical camp.

Age group	Male	Female	Total
00-04	36	37	73
05-09	61	60	121
10-14	43	61	104
15-19	28	33	61
20-24	28	31	59
25-29	30	68	98
30-34	32	58	90
35-39	31	71	102
40-44	30	59	89
45-49	29	55	84
50-54	30	45	75
55-59	35	36	71
60-64	29	37	66
65-69	26	31	57
70-74	15	21	36
75-79	07	10	17
80-84	03	02	05
85-89	05	00	05
90-94	01	00	01
95+	00	01	01
Total	499	716	1215

The disease wise classification of the patients attended the medical camp is given in Table No 2.

TABLE 2

Disease wise classification of patients attended medical camp.

Sl. No	Disease	Male	Female	Total
01.	General infection	150	174	324
02.	Fever (PUO)	08	09	17
03.	Tuberculosis	16	10	26
04.	Leprosy	---	01	01
05.	Skin Diseases	41	40	81
06.	Worm infestation	14	21	35
07.	Orthopaedic Diseases	52	85	137
08.	Gynaecological Diseases	---	88	88
09.	Cataract & other eye Diseases	29	14	43
10.	Polio	02	---	02
11.	Congenital Anomolies	02	01	03
12.	Mental Retardation	01	---	01
13.	Goitre	---	07	07
14.	Dental Disease	01	04	05
15.	Paralysis	02	03	05
16.	Trauma	13	02	15
17.	Deficiency status	08	24	32
18.	Acid Peptic Disease and Gastritis	21	32	53
19.	Bronchial Asthma	02	09	11
20.	Systemic-illness -Diabetes, Hypertension etc..	23	10	33
21.	Benign tumours	10	07	17
22.	Cancer and pre malignant condition	11	18	29
23.	Ante-natal	---	06	06
24.	Other Diseases	72	111	183
25.	NAD(nothing abnormal detected)	21	40	61
	Total	499	716	1215

CONFIRMATION OF SUSPECTED CASES.

During the Epidemiological survey, as many as 101 suspected cases were recorded; and those suspected cases which were turned up to the camps were clinically examined and relevant investigations were carried out by the experts at the medical camps and ruled out. In addition, some of the cases, which were not turned up to the respective camp places, were followed up subsequently. The details are furnished below.

1)	Confirmed cancer cases	03
2)	Nothing- abnormal detected (NAD)	25
3)	Ailments other than cancer symptoms	59
4)	Left the place	08
5)	Refused for investigations	06
	Total	<u>101</u>

FINAL CONFIRMATION OF CANCER CASES.

The overall cancer cases confirmed at the clinical medical camp by the experts are as follows .

1)	No. of cases confirmed by the experts among the 33 cases recorded during Epidemiological survey	18
2)	No. of cases confirmed from the 101 suspected cancer cases recorded during the Epi. Survey	03
3)	No. of new cases confirmed at the medical camp by the experts	03
4)	No. of cases newly confirmed as cancer cases during the follow up and mopping up of camp.	<u>12</u>
	Total	<u>36</u>

Age and sex wise classification of cancer cases.**Table 3.**

Age group	Male		Female		Total	
	Cancer	population	Cancer	Population	Cancer	population
00-04	---	1037	---	1036	---	2073
05-14	---	2219	---	2256	---	4475
15-29	01	3360	1	3478	2	6838
30-44	---	2159	10	2145	10	4304
45-64	09	1748	8	1755	17	3503
65+	04	544	3	519	7	1063
Total	14	11067	22	11189	36	22256

Cancer Prevalence Rate ***Table -4**

Age group	Male	Female	Total
00-04	0.0	0.0	0.0
05-14	0.0	0.0	0.0
15-29	3.0	2.9	2.9
30-44	0.0	46.6	23.2
45-64	51.5	45.6	48.5
65+	73.5	57.8	65.9
Total	12.6	19.7	16.2

* Prevalence Rate for 10,000 population

Table 5.***Type of cancer.***

Sl.No	Site of cancer	No. of Persons			I.C.D-O*
		Male	Female	Total	
01.	Cheek	04	01	05	145
02.	Brain	01	---	01	191
03.	Breast	---	06	06	174
04.	Sec. Lymph nodes	01	01	02	196
05.	Ovary	---	04	04	183
06.	Stomach	01	01	02	151
07.	Uterus	---	04	04	179
08.	Thyroid	01	02	03	193
09.	Penis	01	---	01	187
10.	Cervix	---	01	01	180
11.	Lung	01	---	01	162
12.	Oesophagus	02	---	02	150
13.	Oropharynx	---	01	01	146
14.	Hodgkin's disease	01	01	02	201
15.	Carcinoma of unknown primary	01	---	01	199
Total		14	22	36	

* International Classification of Diseases – Oncology.

FINAL CONFIRMATION OF CONGENITAL ABNORMALITIES

There were 45 cases of congenital abnormality cases were recorded during the Epidemiological survey. Some of the cases reported to the medical camp were rejected by the medical experts that they were not congenital abnormality cases. Some new cases were also noted at the medical camp and they were also included in the list. Now, totally 50 cases of congenital abnormality are available in the locality. The details of the cases are shown in tables 6 & 7 .

TABLE-6.
CONGENITAL ABNORMALITIES

Age group	Male	Female	Total
00-01	01	01	02
01-04	03	02	05
05-14	09	10	19
15-29	08	12	20
30-44	02	---	02
45-59	---	01	01
60 & above	---	01	01
Total	23	27	50

TABLE 7.
TYPE OF CONGENITAL ABNORMALITIES

Type of Abnormalities	Male	Female	Total
Congenital Talipes equino varus	---	04	04
Down's syndrome	02	01	03
Phocomelia	03	01	04
Cerebral palsy	09	10	19
Mental Retardation	04	06	10
Cleft Lip	---	01	01
Kyphosis	01	---	01
Cleft Foot	01	---	01
Syntactily	01	---	01
Bilateral Absence of ear lobes	01	---	01
Bilateral Absence of Patella	---	01	01
Meningo - myelocoele	--	01	01
Congenital Malformation of eye lid	---	01	01
Dermoid cyst	01	---	01
Congenital Macroglossia	---	01	01
Total	23	27	50

PHOTOGRAPHY

Even though many patients were turned up to the medical camp, they were not willing to take photos at the camp site. Hence they were followed after the completion of survey work at their residences and convinced by the team authorities and accepted to take photos at their residences. Then, necessary photography of cases were done for confirmed cancer cases and congenital abnormalities for reference. Photos were taken only from willing individuals after getting their consent and the team was unable to take from the unwilling individuals.

The collected photos were enclosed herewith in Annexure for reference of the NPCIL.

CONCLUSION

The population covered under the Epidemiological survey work was also assessed under Clinical survey work for the detection of cancer cases and congenital abnormalities. The detection of cancer cases belonging to oral, cervix, ovary, breast, and oesophagus varieties. The congenital abnormalities are of different varieties of clubfoot and cleft foot, Down's syndrome, cerebral palsy, phocomelia and kyphosis.

Finally, the team members personally felt that it would be a Herculean task to carry out any study or survey work in a sensitive area like Kudankulam in detection of cancer cases in the years to come, even though, it is a community based study which is involved with many more constraints in the field.

**ANNEXURE
PHOTOGRAPHS OF PATIENTS.**

A] CANCER PATIENTS.

- 1) **NAME OF THE PATIENT** : **RAJ**
AGE & SEX : 55 /M
VILLAGE : IDINTHAKARAI
DISEASE : **SQUAMOUS CELL**
: **CARCINOMA-CHEEK**
PHOTOGRAPH DATE : 25 - 04 - 02.
(DIED JUNE - 02).
- 2) **NAME OF THE PATIENT** : **CHRISTOPHER**
AGE & SEX : 70/ M
VILLAGE : IDINTHAKARAI
DISEASE : **CARCINOMA - OESOPHAG**
PHOTOGRAPH DATE : 14- 05- 02
: (DIED JULY 02).



3) **NAME OF THE PATIENT** : **THANGAPANDI NADAR**
AGE & SEX : 56 / M
VILLAGE : KUDANKULAM
DISEASE : **CUP (CARCINOMA
UNKNOWN PRIMARY)**
PHOTOGRAPH DATE : 09- 05- 02.

4) **NAME OF THE PATIENT** : **SETHU MANI**
AGE & SEX : 47 / M
VILLAGE : KUDANKULAM
DISEASE : **LYMPHOMA**
PHOTOGRAPH DATE : 23-04-02.



5) **NAME OF THE PATIENT** : **VELAMMAL**
AGE & SEX : 60 / F
VILLAGE : SANKANERI
DISEASE : **HODGKIN'S DISEASE**
PHOTOGRAPH DATE : 02- 05- 02. (Died)

6) **NAME OF THE PATIENT** : **CHANDRA**
AGE & SEX : 50 / F
VILLAGE : KUDANKULAM
DISEASE : **CANCER - UTERUS**
PHOTOGRAPH DATE : 23- 04- 02.

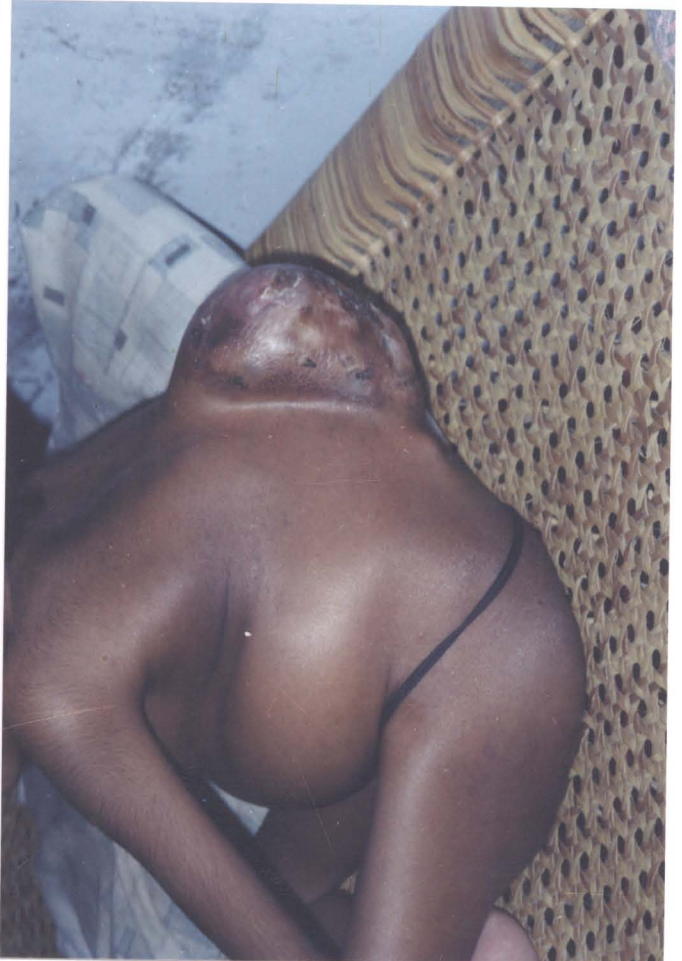


B] CONGENITAL ABNORMALITIES

- 1) **NAME OF THE PATIENT** : **PATTURAJA**
AGE & SEX : **30 / M**
VILLAGE : **KUDANKULAM**
DISEASE : **CONGENITAL DEFORMITY WITH SYNTACTILY AND CONGENITAL DEFORMITY OF FOOT (CLEFT FOOT)**
PHOTOGRAPH DATE : **23-04-02.**



- 2) **NAME OF THE PATIENT** : **STEFI**
AGE & SEX : 10 / F
VILLAGE : IDINTHAKARAI
DISEASE : **CLEFT LIP**
PHOTOGRAPH DATE : 23-05-02
- 3) **NAME OF THE PATIENT** : **ONIDA**
AGE & SEX : 7/F
VILLAGE : IDINTHAKARAI
DISEASE : **MENINGO - MYELOCELE**
: **WITH PECTUS EXCAVATUM**
: **AND HYDROCEPHALUS.**
PHOTOGRAPH DATE : 14- 05- 02 .
: (Died June - 02)



4) NAME OF THE PATIENT : MUTHU RAJ
AGE & SEX : 5 / M
VILLAGE : KUDANKULAM
DISEASE : CLUB FOOT (CTEV)
PHOTOGRAPH DATE : 09-05-02.

5) NAME OF THE PATIENT : THILLAI
AGE & SEX : 24 / F
VILLAGE : VIJAYAPATHI
DISEASE : CLUB FOOT (CTEV)
PHOTOGRAPH DATE : 09-05-02.



6) **NAME OF THE PATIENT** : MANTHIRA
AGE & SEX : 11 MONTHS / F
VILLAGE : THILLAIVANAM THOPPU
DISEASE : CLUB FOOT (CTEV)
PHOTOGRAPH DATE : 09- 05- 02.

7) **NAME OF THE PATIENT** : FRIGIT
AGE & SEX : 4 / F
VILLAGE : IDINTHAKARAI
DISEASE : BILATERAL ABSENCE OF
: PATELLA
PHOTOGRAPH DATE : 09- 05- 02.



8) **NAME OF THE PATIENT** : **SUDALAI ANAND**
AGE & SEX : 10 / M
VILLAGE : **VAIRAVIKINARU- K.K**
DISEASE : **PHOCOMELIA**
PHOTOGRAPH DATE : 14- 05- 02.

9) **NAME OF THE PATIENT** : **CHITHIRAI SELVAN**
AGE & SEX : 11 / M
VILLAGE : **GANDHI NAGAR- K.K.**
DISEASE : **PHOCOMELIA**
PHOTOGRAPH DATE : 14- 05- 02.



10) **NAME OF THE PATIENT** : **SHAKTHI KANI**
AGE & SEX : **18 / F**
VILLAGE : **AVUDAIYAL PURAM**
DISEASE : **DOWN'S SYNDROME**
PHOTOGRAPH DATE : **09- 05- 02.**

11) **NAME OF THE PATIENT** : **ANAND**
AGE & SEX : **23 /M**
VILLAGE : **IDINTHAKARAI**
DISEASE : **DOWN'S SYNDROME**
PHOTOGRAPH DATE : **14- 05- 02.**



12) **NAME OF THE PATIENT** : **SUSMI**
AGE & SEX : **6 / F**
VILLAGE : **IDINTHAKARAI**
DISEASE : **CONGENITAL**
MALFORMATION OF EYELID
PHOTOGRAPH DATE : **09- 05- 02.**

13) **NAME OF THE PATIENT** : **THANGA DURAI**
AGE & SEX : **16 / M**
VILLAGE : **GANDHI NAGAR- K.K.**
DISEASE : **KYPHOSIS**
PHOTOGRAPH DATE : **14- 05- 02.**



14) **NAME OF THE PATIENT** : **JUDI**
AGE & SEX : 15 / F
VILLAGE : IDINTHAKARAI
DISEASE : **CONGENITAL**
MACROGLOSSIA
PHOTOGRAPH DATE : 14- 05- 02

15) **NAME OF THE PATIENT** : **REENA**
AGE & SEX : 20 / F
VILLAGE : IDINTHAKARAI
DISEASE : **CEREBRAL PALSY WITH**
MENTAL RETARDATION
PHOTOGRAPH DATE : 09- 05- 02.



16) **NAME OF THE PATIENT** : **KALEEL REHMAN**
AGE & SEX : **35 / M**
VILLAGE : **VIJAYAPATHI**
DISEASE : **CEREBRAL PALSY**
PHOTOGRAPH DATE : **09- 05- 02.**

17) **NAME OF THE PATIENT** : **SARANYA**
AGE & SEX : **10 / F**
VILLAGE : **INDRA NAGAR – K.K.**
DISEASE : **CEREBRAL PALSY WITH**
MAL - NUTRITION.
PHOTOGRAPH DATE : **09- 05- 02.**
(DIED)



C] COMMON AILMENTS

NAME OF THE PATIENT : **ARUMUGAM**
AGE & SEX : **65/ M**
VILLAGE : **VANNAR KULAM**
DISEASE : **RHINO SPORIDIOSIS**
PHOTOGRAPH DATE : **22- 05- 02**

NAME OF THE PATIENT : **THANGAPANDIYAN**
AGE & SEX : **52/M**
VILLAGE : **KUDANKULAM**
DISEASE : **ARM - LIPOMA**
PHOTOGRAPH DATE : **14- 05- 02.**

