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T.B. SURVEY AMONG CHENCHUS OF NALLAMALAI FOREST AREA

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INTRODUCTION

For centures, it has been believed that tuberculosis is hereditary and runs in the family and due to this belief, the patients carried a stigns and they were sourced to disclose this discuse to the community.

In 1832, Pobert Roch, " an eminent German Scientist discovered the Tubercle Bacilli", a micro-organism, responsible for the disease tuberculosis. This discovery completely wiped out all the age old beliefs with regard to tuberculosis.

Tuberculosis does not respect age, sex or socio-economic status of its victims. The tubercle budilli primarily attacks the lungs, although almost all organs in the body can be involved. The patient who is suffering from tuberculonis of lungs, spreads the infection. When this patient coughs or messes, without covering his mouth, tiny particles of sputum which carry the tubercle bacilli, are expelled. These tubercle bacilli remain suspended in the cir for a long period. Then a facility person in the vicinity inteles these particles, the tubercle bacilli makes entry into his lungs and thus the disease infects. The other source of transmiction of this disease is knowned of smoking, and foodling or kinsing of the child by the mother stee.

^{*} Source: The Tuberculesis Association of India, New Fellit.

STERVIS: In the early stages, the symptoms of lung tuberculosis are very Value and mild.

- 1) Loss of weight,
- 2) Patient looks tires and exhausted,
- 3) Loss of appetite,
- .) Not desimous to work,
- 5) Suffering from mild fover with persistent cough,

If the above symptoms persist for 2 - 4 weeks, the patient should go to the nearest hospital immediately for check-up.

DIAGNOSTS: The diagnosis of lung tuberculosis is based mainly on

examination of the sputum of the patient and x-ray examination of his chest. Another diagnostic tool is the tuberculin test which is more applicable in the case of children.

First The discovery of powerful drugs like Mirampicia, Isoniazid, Itreptomycin and Pyridoxine etc., effective in treating tuberculosis, constitute a milestone and one of the major medical navances of the contany.

senitoria, and there is no nee for entra mutations diet or special foods or complete bed rest. They can be treated at home itself.

TOBERCULOSIS IN CHILDREN: In a hij country like India, with a large number of TB patients livin; in crowded and congested localities in both urban and mural areas, the risk of infection is immense and starts as soon as the child is boun. They use to be given a special cars by immunising them with DOC vaccination. But vaccination at early age of life, provides a him level of protestion against tuberculosis.

HATIOLIA TURNITURALLY, CONTROL TOCALLY S: The Covernment of India, the State Government and voluntar organisations together have been fighting a relevitless battle against tuberculosis right from the year 1962 when the Stational addressing Control Programme [Prof.] was launched. In order to take the programme more of Scotive and to take the sorvices nearer to the Coorsteps of the people, the village health miles— he worked per village or a 1,000 population—are expected to identify chest supplementes in the village and refer them for syntum examination. Further, health workers wist every village periodically. The health workers are also responsible for motivating the patients to ensure regularity in treatment. They also vaccinate the new borns with BCC and carry out health education in the community.

The nain objective of the F.B.Control Programme are as follows:

- e) large detection of cares of tolerandosis, configuration of the diagnosis and arranging regular treatment through programmed mass screening and treatment settle ties.
- b) Identifing drop out owns for sold eving uninterrupt d treatment of cases and thus reducing the foot of infection to prevent surem in the community.
- c) Insuring universal immunization coverage of all infants with BOG Immunization with the manifesture of local voluntary belows in the community under the UTP.
- d) Theuring adequate mapply and distribution of Artical dange in identified places for effective domicility treatment or treatment as the PRE/Sub-centre of the case.
- e) Referral of notive and sevenced cases for impatient treatment in the identified institutions.

THEN INTER: It is estimated that nearly 4 lake persons die of tuberordonis in India every year. On, or the estimated 10 million patients
nearly one fourth i.e., about 2.2 to 2.5 million are likely to be
infectious. The prevalence rate (per 1000 population, is same both in
rural and urban are s.

Studies conducted by the I timed Taborenics is Institute, have shown that 61% of infectious cases have reported to doctors of modern medicine either in Government on Private sector and only 14% have reported to a specialised tuborculosis institution. This behaviour norm of the pupulation has thrown a big responsibility on all constal practitioners who constitute the biggest and most important segment of the medical profession and are often close to the patients.

Parlier in 1982, an attempt has been made to 'now the prevalence of T.B. in Tribil areas of Bhadrachalam division, Thamam listrict, Indhra Pradesh, by conducting a major survey. This survey is limited only to cheat support tic tests performed on door to door banks by para medical staff i.e., the mobile x-ray units etc; In this study, out of 1.5 lake people surveyed, 12.5% of TB cases were detected.

and Jokeduled Tribes (1960), Taberculosis is very common emong the tribes of Medica Pradess, Dianr and certain areas of Design and Lasam. About 10 - 15% of the patients attending hospitals for T.D. Prestment, were tribals. As the tribals visit the hospitals early in advanced stages, the reported cases are lew compared to the actual incidence, and the danger of spreading the disease is very high. Tabureulosis was said to be on the rise in many tribal areas.

Has 2.C.C. Vaccination was introduced in tribal areas of Indhra I whesh, but in practice it has been very Marieult to take these services to the remote tribal areas which is one of the reasons for Mari incidence of T... in Pallamalai forest areas. So far, no systematic survey with regard to the T.B. has been taken up in the Chenchu area. The areas at study is an attempt to acress the prevalence of T.B. examples of Shanchus in Mallamalai Jorest area with the help of Madieal & Health Paparamataparamata.

AIMS AND OBJECTIVES OF THE STUDY

The main win of the study is to find out the nature and prevalence of twhereulouis monig Chenchus. The objectives are as follows:

- 1) to assess the prevalence of U.B. among Chenchus.
 - 2) To assess the communicable aspects of T.B. in the context of prevailing sanitation and preventive measures.
- 3) To study the attitude of Thenolus towards modern medicine and treatment of T.J.
- 4) To assess the impact of B. . Jaccination programme as the Chanchas in the sample villages.

MINIODOLOGY: This study is intended to be a rapid appraisal of the prevalence of I.1. smong the Chenchus and it is proposed to take up a survey smont the Chenchus of Mallemelai forest area. The villages were selected on mandon sampling. About 10 percent of families of Chenchus inhabiting the villages, were examined on purposive sampling with the help of Medical Officer concerned and detected cases were taken up for conducting case studies with a view to establish causes of the disease, nature of in the indexpone, stage of disease, parts affected and treatment required.

Jecondary data was collected from the concenned Medical Officer and the Medical Officer attached to the Jub roulonin stadication properties, regarding the prevalence and nature of preventive and curative measures taken up for combating 1.B.

ATTA AND THE PROPER

Of Jy school of Mibes of milian inclosure, whose population in 41,99,481 according to 1991 censes (1.31% of tribula to the late's total population of 66.5 millions), 8 tribal groups in a recognised as Primitive Tribal Groups (PTC's) by Government of India. The extremely backment tribal groups are identified as 200% basing on their presignational stage of economy, low liberary, largely subsisting on f od gathering and hinting. The Shanola tribe was recognised as PTC in 1975. The remaining 7 PTC's are Holam, London leddy, lands Savara, Gadaba, whoma, Forja and Photi. The Charletons are imbabiliting 6 districts namely maked observe, Prakticus, Rumool, Gartur, Mullonds and Ban a Roddy. The district-wise number of Charleton villages/hanlets is given in laneaure-I.

The Charolus, tenditionally a soud gathering tribe, are predominantly found living in Mallamelai hills which spreads over Kurnool, Pinkasem and Mahabooknagar districts. As these hills are absolute with flore and faura, the Charolus are subsisting on food jathering and hunting of wild animals.

The Chenchus are divided into 1 andogomous sub-divisions.

- i) Adavi Chenchus: They are traditionally forest dwellers, and hence the name 'ddavi Chenchus'.
- 11) Devs Chemo was The are engaged up tende servents.
- iii) Bontia Chenchiss The named after Bonths meshin; a piece made up of an old cloth and regs tied around the waist of women folk.

 These Bonths Chenchis make household articles, ladders ste., with bamboo.
- iv) Inithia Chancins. They are nonadic mendicants, mainly subsist on beging. They are also called as Jacam Chanchus.

Of these 4 groups, only Adavi Chancing and Dove Chancing constituting none than 60% of the total Chancing population found in IIDA area while the remaining two enough nately Doutha Chancing and Erising James chus account 40% to total Chancing population, are spread over in plain areas.

The Social structure, clan organization, enstons and traditions of Adavi Chenchus and Dayn Chanchus are identical and inter-group marriages are socially accepted.

The important piligrim centres like Emissilan, when and Abobilan of Furnool district are situated in traditional builtimes of Chenchus, and the Chenchus are assime with special roles in these temple with ls.

Characteristic feature of the Chenclu society is establishing a separate family by son, immediately after his marrial e. Child marriages are very common among the Chenchus. The evenage size of a Chenchu household is 4.62 when compared to 5 persons smong other tribal groups of the state. HOUSTIG PARTHAIS: Most of the Charachus live in small conical chaped buts. However, rectangular, oblong and square to a houses also exist. The Chenchus share their residence along with their goat, sheep and cattle by heeping these inside the thouse. Thus the Chenchus houses looks dirty and unclear and fine to this, the Chenchus smaller from scaling and other skin diseases.

SHTTLHIED PATTIES: The Chenchu settlement patterns are called as 'Chenchugudens' or 'Pentas'. These gadens are spread all over the Hallamalai hills. These habitats are exclusively inhabited by Chenchus. However, the Chenchus in the lower plateon of Chanabid and bordering areas of Chanaba and Prakasan districts, live in symbiosis with the plains people. Lambadas also hive with the Chenchus in some gadens.

ECONOMY: The Chenchus mostly depend on forest sources fill today. M.F.P. Collection like gum, soapruts, myrcbalams, adda leaves and honey etc., provide a source of livelihood. They sell the M.F.P. in G.C.C. sales depots and in turn purchase their daily requirements. Chenchus are adept in honey collection.

Another important source of livelihood to the Chenchus of road side Chenchugudems is firewood selling.

The Forest Department provides employment apportunity to the Chenchus in bamboo cutting and construction works, teak plantations, nurseriesetc., The Chenchus are also engaged as agricultural labourers.

The food gathering and semi-nomedic Chenchus are slowly taking up agriculture and domestication of cattle and utilising the special schemes provided by the Government for their development. Simultaneously irrigation wells, supply of plough pullocks, agricultural implements, oil engines, electrical notors etc; are also provided by I.T.D.A. and D.F.D.A's to settle the Chenchus in agriculture.

OOD Habits: Chambus acquire food by gathering in the forest and through agriculture labour and domestication of animals. The chembus a vital role in influencing the dietary patterns of the Chembus throughout the year, and it comes to their rescue especially during the lean periods.

The most important food items that are consumed by the Chanchus are roots and tubers, leafy vegetables, vegetables, ruits, seeds à nuts, mushrooms, flesh foods and the agricultural foods like Jower, Bajra and rice etc.

DOTS AND TUBLES. The roots and tubers plays a vital role in henchu diet and their consumption varies seasonally. Chenchu ladda, a variety of wild year is a nsumed on large quantities.

Exavaragadda, Kaluvagadda, Tamaragadda, Chamagadda, Boddigadda, Chandagadda etc; are also consumed by the Chenchu depending on their availability in different seasons.

LEAFY VEGETABLES: During rainy season, Chenchus depend on leafy vegetables of wild varieties like Palakura, Ganga bailukura, Chenchalakura, Gongura, Thotakura, Peramtalakura, Tiyyakura etc. They also eat leaves of lotus, water lily besides tender bamboo shoots, nakkeru, tamarind, and Moringa oteifera (Mulaga) However, the consumption of leafy vegetables is less due to their non-availability in summer season.

VEGETABLES: Chenchus collect wild brinjals and bitter gourd from the oforest for consumption. Besides these, pumpkin, ridge gourd and wild beans are also being consumed by Chenchus. Wood apples and green tamarind are used in Chutney and curry preparations.

FRUITS: Innumerable varieties of farits are consumed by the Chenchus and among them Kale Pandlu, Chitimiti Pandlu, Jana Pandlu, Konda regu, Dondapandlu, Parikipandlu, Palapandlu, are some of the important fruits eaten by them. During scarcity, the unripe fruit of seethaphal is cooked and eaten. The fruits of Ippa and sarapappu are also eaten.

SEEDS AND MUIS: Several seeds and nuts are consumed by the Chenchus, of which 'Madapu' seed is themost important one. These are roasted and eaten. Moh a seeds are eaten as well as for extraction of oil. Tamarind seeds are roasted, powdered and used in thepreparation of gruel during the lean periods. The other seeds eaten by them are Kasaginjalu, Bamboo seeds and Gottepappu. MUSHROOMS: Several varieties of mushrooms sprout in the forest at the onset of monsoon, but many of them are poisonous. The Chenchu eat 'Commu Kokku' (growing on bamboo bushes) and 'Mamidi Kokku' (growing on roots of mango tree). They preconsumed by roasting with chilly powder.

FLESH POODs: Chenchus munt a variety of birds and animals like rabbits, Jungle cats, field rats, wildbear, equirrels, Peacocks, Jungle fowls, Iguana etc; with the help of bow and arrow. They collect wild variety of ante known as "Pedda Cheemalu" from the ant-hills, which are roasted and eaten. During the onset of rains, certain insects called "Usurlu", are collected by placing a small lamp tith a net at the entrance of ant-hills. They are roasted and eaten which is a delicious food for them. Fishing is practised with the help of reed traps. Tortoise and crabs are also daten by the Chenchus.

FOODS OBTAINED THROUGH AGRICULTURE: The contribution of agriculture is very less to the Chenchu diet, as only a limited number of house holds practice it. They grow crops like Jowar, Ragi, Variga, Italian millet, Sama, Bajra and pulses like horsegram and cow pea.

SEASONAL VARIATION: The foodhabits of Chenchus are primarily dependent on the availability of various food items from the forest. But for thelast two decades, employment on wage basis in bamboo cutting and plantation, road construction and the extension activities of Girijan Co-operative Corporation Limited have brought changes in their foodhabits. Hence, the seasonal variations in the Chenchu diet is partly attributed to the Forest Department and its employment potential.

Summer season is a period aplenty for the Chenchus.

Minor Forest Produce, fruits and gainful employment sources are available during the period. The usual menu consists of Jowar, Rice, Chilly, Chutney, Tamarind, Mohwa flower, Mango chutney and Mohwa Liquor. Animals which come to quench their thirst at the water sources, are hunted. The drying up of ponds provide good source of fish in certain pentas. But this season is particularly scarce in the metter of leafy vegetables and milk products. Tender Tamarind and Bamboo shoots are the only Leafy Vegetables being consumed by the Chenchus in this season.

At the time of onset of rains, the chances of getting mployment is reduced and the quantity of cereals which are to e purchased, are decreased in their diet. A majority of Chenchus irtually starve in this period. Large / 1 of leaves are imply cooked with water and then eaten. Roots and tubers are ery scarce in this period. Some seasonal fruits are available. Let us scarce, the Chenchus eat several unusual fruits and sots during this period.

From October, Jowar harvesting season commences and owar is consumed along with cooked vegetables which gradually ecreases after this season. Roots and tubers form their staple oed in that period. From January, bamboo cutting operations egins and Ragi is also harvested. With the increase of forest abour, the consumption of Rice and Jowar also gradually acreased.

Small game provides flesh food to Chenchus occasionally all seasons.

ANALYSIS

This study was conducted with the help of medical personnel in 3 districts namely Mahaboobnagar, Kurnool and Prakasham, covering 18 villages i.e., 7 villages in Mahaboobnagar 6 villages in Kurnool and 5 villages in Prakasham. The list of villages with their population covered for this survey is given in Annexure—II. About 149 households with a population of 677 were covered, and among them 349 were males while the remaining 328 were females. The average sex ratio is 940 females per 1000 males.

Out of 677 persons (149 households) covered in the study, 30 persons were found to be suffering from T.B. at various stages of infestation. More number of T.B. cares (20%) were found in Jangam Reddi palli of Mahaboobnagar district, followed by 13.33% in Chintala of Prakasham district and the same percentage of cases were found in Mahanandi and Nagaluty villages of Kurnool district. It is found that, out of the 18 surveyed villages, the T.B. cases were found in enly 10 villages. Details of the village-wise households covered and number of T.B. cases found are given in Annexure-III.

Out of the 677 persons, 108 persons are not suspectible to T.B. as they are below 5 years and above 60 years of age who are generally non-suspectible to the T.B. The details are given in Annexure-IV.

DEMOGRAPHY: Nearly 47% of thepopulation are dependents if—ensider shepopulation (below 14 years of age and above 60 years.) It is almost equal among males and females. This shows that rearly half of the population are dependents i.e. non-earners. The population is very your g, typical of P.T.G's experiencing high fertility, high infant and child mortality and lower life.

expetancy rates. This conclusion is drawn from the Annexure—IV because nearly 48% of the population is in between the age groups of 15 and 60 years in both sexes. The population appears to be static between 15-40 years and a sudden fall is observed afterwards. The fall in percentage of population between 0-14 years indicates high child mortality and the fall after 40 years the to higher death rate. Almost equal percentage of old aged are found both in males and females.

As per the survey no single T.B. case was found among the children below 5 years of age. Only one case was found for person who is above 60 years (3.33%). About 20.22%; 16.60% and 13.30% cases were found in the age groups of 35-39, 40-44 and 30-34 respectively. Out of these 30 cases, 87% are males and 13% are females. Details are given in Annexure-V.

TABLE-I
EVALENCE OF T.B. ACCORDING TO SEX AMONG TRIBAL POPULATION

	- - i	MALE	FERALE			TOTAL
	No	affected	76 No 8	affected	% No.	affected
'ribal 3	349	.20	5.73	328 		3.05 677 38 4.43

Sex Ratio: Males Females
1000 940

Out of the population surveyed 30 cases were found suffering from T.B. Among them 5.73% males and 3.05% females ere affected with T.B. - Altogether 4.43% of the population ere suffering from T.B. T.B. is found to be 5.18% if susceptible population is also taken into consideration i.e., Children elow 5 years of age and adults above 60 years of age. It is more than the Andhra Pradesh's average prevalence ate of 1.8 to 2.5% and also to average All India's Prevalence ate of 2.0%.

TABLE-II

FREVALANCE OF T.B. IN VARIOUS AGE GROUPS:

		Males			Females	
Age Group	No.	affected with T.P.	% 	No	affected with T.B.	%
0410	11 0	1	9.91	119	2	1.68
11-20	77	-	-	51	2	3,52
21-30	50	2	4.00	59	1	1.69
31-40	56	8	14,29	52	2	3 .85
41-50	25	7	28.00	27	1	3.70
51-60	20	2	10.00	11	1	0.09
60 +	11	-	20.7	à	1	11.11
TOTAL:	349	20	5.73	328	10	3.05

More number of T.B. cases were found among the males in the age groups of 31-40 and 41-50. Out of the 20 identified T.B. cases found among males 15 cases are in the higher age groups only. A very few cases are found in the age groups only, 11-20 and 60 + and their parcentage is 8,65. It is evident that, out of the 10 females suffers: 50% of them

among are found/below the age of 30 years.

TABLE-III

PREVALENCE OF T.B. AND HOUSE HOLD SANITATION

Type of House Hold	No. A	iffecte	d %	Type of House hold	No effected	- * •
With seperate Kitchen	59 '	7	11,86	Without separate Kitchen	90 23	25 .53
well ventila- ted.	65	9	13.85	Poorly ventilated	84 21	25
Clean surroun ing.	d- 81	8	9, 88	Un-clean surround- lngs.	68 22	32.35

Contd. .

House holds with separate Kitchens, good ventilation and clean surroundings have a low percentageof affected persons with T.B. compared to the persons living in the houses without separate kitchen, poor ventilation and unclean surroundings. This shows that T.B. is more prevalent in households with uncleaned sanitary conditions. This uncleanliness may be attributed for keeping up of thecattle, sheep and goats within their houses. Due to poor ventilation, the smoke accumulates within the houses which ultimately causes the respiratory diseases such as pulmonary tuberculosis and bronchitis etc; This may cut short the supply of oxygen to lungs and heart which will ultimately weaken the resisting capacity of the body to combat with the bacteria i.e., tubercle bacilli. Hence, the Chenchus are more susceptible to T.B. Another curative factor is methane gas production which will weaken the pulmonary system.

The prevalence of T.B. is slightly higher among family members of consanguineous marriages compared to families of non-consanguineous marriages. This may be due to close imbreeding among relatives in the case of families constituted of consanguineous marriages who are less resistant to the disease. Not so much difference is observed with regard to prevalence of T.B. among both the nuclear and Joint railies. (This observation was made during the study)

TABLE-IV

PREVELENCE OF T.B. ANOHE EAGNERS AND NON-EARNERS

	No.	Affected	%
CARNING MEMBERS	428	26	6.07
ON_EARNING MEMBERS	249	4	1.61

It is evident from the above table, that majority of the persons affected with T.B. are earners only. This may be attributed to the habit of drinking and smoking. They had been habituated for these in order to relieve from the pains caused due to hardships in agriculture labour etc; then the earning member has been hospitalised for T.B. treatment, the family income ultimately decreases. This results in the consumption of inadequate quantities of food. This malnutrition leads to susceptibility to T.B. to other family members. Here it is interesting to note that improvised economy is adversely affecting the health of not only the earner but also other family members.

TABLE-V
PREVALENCE OF T.B. AMONG LITERATES AND ILLITERATES

	No No	Affected	%
LIT_RATES	206 ,	9	4•37
illiterates .	471	21	4.46
TOTAL	677	30	4.43

The aforementioned table reveals that 70% of the affected members are illiterates. This prevalence is more than 2 times higher than the literates. This clearly shows that education plays a vital role impersonal hygiene and preventive measures.

TABLE_VI PREVELENCE OF T.B. AMOJ.G SMOKERS AND NON-SMOKERS

NO Affected % No affected No affected % affected SMOKERS 258 20 7.75 196 8 4.08 454 28 6.17 NON-SMOKELS 91 - 132 2 1.51 223 2 0.96			MaLES		FEMAL <i>A</i> S		-, -	TOTA	T 	
		NO	Affected	, % 	No affected			eted	· - ×	_
NON-SMOKELS 91 - 132 2 1.51 223 2 0.96	SWOKERS	258	20	7.75	196 8	4.08	454	28	6,17	
	NON-SMOKELS	91	-	•	132 2	1.51	223	2	0.96	

of the 30 affected persons, 28 are smokers and 2 are non-smokers. This clearly reveals that habit of smoking aggravates the disease by weakening the lungs and 'consequently making the smokers more prone to infection caused by Bacteria. 8 female smokers got affected with T.B. where as two female non-smoker children below the age group of 10 years also found suffering from T.B. This may be attributed to the inhalation of the smoke, While helping their mother's in the Kitchen.

B.C.G. VACCINATION PROGRAMME:

Due to fear of after-effects of ECG vaccination, most of the children in the Chenchu area are not utilising the Universal Immunisation Programme (UIP) like BCG, DPT etc., is one of the reasons for the higher number of T.B. cases among the Chenchus in Nallamalai forest area.

Table-VII ATTITUDE OF THE CHEACHUS TO AFDS MODERN MARICINE

Total No.of House Holds	Once visited the Hespital	•	Twice visited the hospital	vi.	Not sited spital	
	76	51.0	1 41	27.52	32	21.47
149	70					

It is noticed from the study that out of 149 households surveyed, 21.47% had never visited the hospitals because the tribals feel shy to converse to the strangers due to fear of inferior complexity and thats' why most of the tribals who are suffering with diseases are not visiting thehospitals. They are of the opinion that proper treatment is not given to them for the simple reason that as if they had been very lowly placed in the society. This assumption had led the Chenchus not to visit the hospitals and instead they prefer to take treatment from the quack doctors and native traditional doctors and the

innocent Chenchus fall prey to the quack doctors as they were not qualified doctors to prescribe exact treatment for the disease. As they are living in the vicinities of frest, self care is carried out by themselves for treatment of certain diseases, by use of medicinal plants available in the forests. They opined that proper treatment is not available is Govt. hospitals due to non-availability of medicines and doctors. Generally tribal perceptions of disease and medicine are in terms of curative only but not on preventive care. Due to high incidence of morbidity andremoteness of villages, the net work of health service provision allocated for tribal areas under the state's 5 - tier system is more intensive than in the plains.

the modern medicines. They attributesmall-pox, Chicken pox, Cholera etc; to the wrath of God or Goddess. Inspite of good number of medical institutions in Frakasham and Mahaboobnagar districts, the Chenchus are not utilising the medical services. The list of existing medical institutions were listed in the annexure-VI. There are altogether 5 civil hospitals exist in the project area which are situated at Amarabad, Achampet and Lingala of Mahaboobnagar district. Atmakur of Kurmool district and Macherla of Guntur district. Besides these, 10 Primary Health Centres 2 mobile medical units, 3 Ayurvedic dispensaries and one homeo dispensary are in the project area, Each medical institution covers on an average of 159 Sq. Kms.

Every year the State Government releases an amount of Rs.5 lakes to the Chenchu I.T.D.A. for medical purposes under impact money. In curn, the I.T.D.A. releases the money to the concerned district Officer for the development of Chenchus. This money is intended to spent on general medical camps

especially tuberculosis and for purchase of medicines etc;

Besides this, the G.C.C. is also operating the medical units to provide medical facilities under the impact money to the Chenchus living in interior villiages by appointing HMP doctor and daya.

Inspite of so many medical and health facilities provided for the good health of the Chenchus, their attitude towards modern medicine almost remain unchanged till now and not achieved the expected goal interms of health care of the Chenchus.

SUMMARY FINDINGS:

In Integrated Tribal Development agency exclusively for the socio-economic development of Chenchus, was established in 1975 with its head quarters at Hyderabad and later it has been shifted to Spisailam in 1988. This project covers an area of 3,500 Sq. Kms.

Majority of the Chenchus live in conical shaped, thatched huts with poor ventilation facilities. The survey revealed that prevalence of T.B. is high in households without proper ventilation and separate kitchens. They believe that the smoke from the hearth protects the roof from white ants, the Chenchus are against the construction of Chimneys and using of smokeless chulhas. Another reason attributed for this is as most of the Chenchus are poor and cannot afford warm clothes during winter, they construct theirhouses without windows to keep them warm during the winter. This ultimately leads them more susceptible to T.B. Now, the I.T.D.A. is constructing the semi-pucca houses with well-ventilation and separate kitchens, in some of the villages under housing schemes.

Furcher, the Chenchus are keeping up their domestic animals like cattle, sheep and goat within their houses to protect from the tigers as most of the Chenchus are living in the core area of Tiger Project. This leads to uncleanliness of the houses and produce certain toxic gases like methane which is affecting their lungs and other parts. This may be one of the reasons for more susceptibility to T.B. to the Chenchus. lost of the Chenchus use detergent scaps both for bathing and vashing. They used to take both twice or thrice a week and wear the clothes used by other members of the family. They wash their clothes only at the time of bathing. Generally, they take bath in Contd..

the mands, streams and a borewells. In a nutshell, due to illiteracy and poverty, their personal hygiene is very poor.

Almost all the Chenchus are habituated to drinking and smaking. Generally, they smoke cigars and beedies. They exchange the lighted cigars with other members of thefamily and friends, without having any idea of salival contamination. Further, indiscriminate spitting in and around the house by T.B. patients enhances the chances of polluting food, water and air with infectious germs. These practices offer large scope for spreading the T.B. to other farmily members living in the vicinity.

Another causative factor for depletion of natural resistance to combat the tubercle bacilli is their insufficient and imbalanced diets during the lean periods. They saste most of their earnings for smoking and drinking only which deny them of nutritious food. Further, most of the Chenchus do not consume milk due to beliefs that it is a sin to deprive the calf of its share of milk from the mother,

In the study area, no traditional medicinal man has come across in the Chenchu villages who are known for treatment of illnesses with metive medicines or herbal medicines. Then the disease is chronic, then the sufferer is visiting the mospital to take the modern medicines that too only to suppress the unbearable pains arised due to the severity of the disease. This tendency is found in some cases only while the remaining are still suffering without consulting doctors (case studies were given in the annexure No-VI)

respiratory tract diseases like bronchitis, pneumonia, stomach ache, malaria, viral fevers and chest pains etc; if a person suffering from pains of obest and stomach, in order to get relieved from the pain, tamarind seed or Caesalpinia buldac Contd..

seed (locally called as Gachha \overline{a} ayi) is heated and immediately applied at the place of pain, so as to leave a scar at that It is the belief, that the Chenchus ieel that the amount of pain due to chest and stomach aches will be lesser than the pain arises after applying of either of the heated By that way the sufferer for et the earlier pains and feels got relaxed temporarily. The research team from T.C.R. & T.I., Hyderabad had enquired some persons who had previsouly suffered with chest and stomach pains and applied the above mentioned practice. Most of them had expressed their staunch belief in this type of self treatment. One T.B. camp was organised at Yerragonda palem 4 years back. They identified some patients and treatment was also given. But subsequently there is no follow up action by / medical personnel whenever they visit the chenchu gudems, the patient will be in there is a missing link. Again the disease will not subsist and on the other hand it will spread to other. purpose of medical camp is a failure here due to lack of proper undertanding between chenchu and chemedical staff.

Although the economy of the Chenchus has increased, reflection on health and nutrition angle is very less and negligible. The following reasons can be drawn up for the above conclusion.

through the economy has increased as daily labourer through forest department, N.F.P. collection and various schemes by C.C.C. like S.A.O. loans, the amount thus derived is being spent on the purchase of liquor and other cosmetic items and purchase of clothes etc; Besides this, there is free supply family per a of 25 kgs of rice and 2 kgs of dhal to the school going child. But this has negative aspect, in the sense that this fice is being sold at the delivery point in order to spare that pmount for purchase of fancy items etc.

SUGGE: TICHS

- are not well equipped with the required facilities for the treatment of T.B. As most on the Chenchus are living at far off places, they cannot afford to spend amounts beyond their capacities towards travelling and treatment purposes. Further some of the Chenchus got disjusted with the treatment meted out at the hospitals.
- 2. The PHC's may be adequately supplied ith sufficient drugs and equipment for treatint T.B. cases. when a T.B. patient admitted to the P.H.C. for treatment, he and his attendant should be given diet at free of cost so that the patient can stay at the hospital itself until the end of the course. If the sufferer is the head of the family, other non-earning members of the family may also be provided certain amount for their sustenance.
- nuting the treatment after sometime thus making the tubercle becill intest again. In order to overcome this problem, steps may be taken to supply medicines at the door steps for the follow-up action. The personnel of the mobile medical units (_U) should be made responsible for the early detection of the disease and followup treatment. The multipurpose health workers/ANM's may also be made to inspect periodically to see the patients to take the drugs regularly without discontinuing in the middle of the course. The tribals should be educated in the field of health by conducting health camps especially for the diseases like T.B. and Malaria.
- 4. Most of the tribals are not availing immunisation schemes like BCC vaccin tion etc; with fear of after effects. In view of the high prevalence of T.B. the BCC vaccination may be made compulsory to all the new born children. This is to be Contd..

successfully implemented through video films and wall posters revealing the causes of the disease and its after effects to the Chenchus, so as to make them aware of the health programmes.

- Majority of the Chenchus are not visiting the h hospitals for the treatment due to shyness and inferior complexity. This notion can be removed from their minds by organising community based health camps along with medical personnel of that area.
- 6. The socio-cultural practices coupled ith unhygienic conditions in tribal areas are obviously a cause for the rapid spread of this highly infectious disease. In order to overcome this, a comprehensive T.B. eradication programme has to be made to control further spread of T.B. and afford relief on proper treatment to the afflicted.
- 7. Steps should be taken to stop drinking & smoking which are normally aggravating this disease. In order to ease from the aggrevations of disease the Chanchus have to be educated by organising the community oriented health camps nearer their habitats.
- 8. Educated Chenchus may or appointed for a cluster of villages, by giving training in T.B. control programmes so that he will effectively work as a limited worker between Medical Personnel and the patients in symptomatic diagnosis of the disease, for treatment, and for follow praction i.e., uninterrupated treatment.
- 9. The Health camps especially T.B. are to be organised periodically at various focal points not only for diagnois but also for follow up actions.
- 10. Mass campaign programme is to be organised, so as to make Chenchus aware of the health problems.

11. The Chenchus, the practice Herbal Medicine or Aurvedic Medicine for T.B. may be encouraged by giving financial assistance and other required facilities.

More MM units may be established in Chanchu area rother than PHC's and sub-centres, for reaching Medical services to interior areas. A contral point is to be fixed where there is G.C.C. D.R. Depot and a particular date is to be fixed by the M.M. units so that, the Chenchus will visit this depot not only for treatment but also for selling their projects or liner forest Produce.

AN NEXURE-I
DISTRICT-WISE NUMBER OF CLENCHU VILLESS/REMLETS IN ITD. AREA

S.No.	Name of the District	No. of Villages/Hamlets
	the last and communication is sufficiently as the same report to the property of the property of the last and	96
1.	Mehabubhager	55
2.	Frakasham	. 27
3.	Kurnool	112
b ,	guntur	16
5. 6.	Melgonge Ranga Reday	33
	TCTAL	269

Source:- ITLA, PTG (Chenchus), Sundimnte, Mormool District,
Andhra Pradach (1970-4).

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ANNEXURE - II

District wise Number of Villeges covered and the nobulat

District wise Mumber of Villeges covered and the nonulation	<u>2n</u>
Coverage during the Survey	
And the state of t	<u> - ،</u>

Sl. Name of the Villa	ge District	Tal s	Fameles	
1. Jogasur	Tababubnage		11	15
2. Farhabad	. if	5	4	10
. Jangaressy Pally	11	4 C	14	26
%. Vectoran Colony	41	11	13	23
5 : Jimelkala	ŖĴ.	7	7	11 _F
6. Banour	ţŧ	•	8	16
7. Udimilla	n	25	15	40
S. Chinna Arutla	Prakashan	a	114	23
9. Chintela	rf	51	i _t i	95
10.Korraprolu	11	17	18	37
1.Marripalem	tt	72	63	135
2.Pedda Arutla	Ħ	10	9	19
3.Madugula	Kurnool	6	13	19
	. u	13	16	29
Mehanandi	11	6	8	14
5.Nagaluty	tt	3,	31	65
6.Nemallakunta .	it	1:7	ياتي	81
7.Panyam	11	10	6	16
.Sundipente	and the same of	al ()		577
Total .	14:30	31,19	32:}	

ANNEXURE - III

VILLAGE WISE NUMBER OF HOUSE HOLDS COVERED AND NUMBER OF T.B.

CASES FOLD

\$1.	Villaġe	wan r of House hol covered in the Vill	age T	umber of P.Casas Found
	Name and a	3	1	(3.33)
1.	Appapur	3		-
2 .	Farhabed	5	6	(20.00)
3.	Jangamreddi Fally	5	2	(6.76)
4.	Macheram Colony	3		-
5.	Medimelkala	<u>7</u> +		-
6.	Rampur	12	1	(3.33)
7•	Udimilla .	6		-
3.	Chinna Arutla	21	14	(13-33)
9.	Chintala	7		(10.00)
10.	Korraprolu	28		(10.00)
11•	Marripalem	3	-	- .
12.	Pedda Arutla	4		_
13•	Madugula	. 8	4	(13.33)
14.	Mahanandi	5	1+	(13+33)
	Nagaluty	12		
15•	Nema lle kunte	16		-
16.		14	2	(6.67)
17.	Panyam	The same area are a second and a second area area.		/# 60 FD
18.	Sundipente	149	30 	(160.00)
	Total	and a second and a second seco		

: 30:

ANNEXURE - IV

STATEMENT STOWING LOS - GROUP WISE LLIES IN FELLUS IN CHEICHU LEV'S.

Age Group	Males	Femalos	Total
0-14	41 (11.75)	47 (14.33)	88 (13,00)
5-9	69 (19.77)	72 (21,95)	141 (20:83)
10-1 ¹ +	50 (14-33)	32 (9.76)	82 (12.11)
5-19	27 (7.74)	19 (5.79)	45 (6 <u>.</u> 79)
20-2 ¹ 1	22 (6.30)	28 (8.53)	50 (7.38)
5-29	28 (8.02)	31 (9.45)	58 (8.71)
.0-3 <u>1</u> +	25 (7.16)	29 (8.84)	54 (7.98)
	®4 (8 . 88)	23 (7.01)	54 (7.98)
5-39	13 (3.72)	14 (4.28)	27 (3.99)
0-44	12 (3.44)	13 (3.96)	25 (3.69)
5-49	15 (4.30)	7 (2.13),	22 (3,25)
0-54	5 (1.43)	4 (1.23)	9 (1.33)
5-59	, ,	9 (2.74)	20 (2.96)
0+	11 (3.15)		677 (100,00)
otal	349 (100.00)	328 (100.00)	

Sex - Ratio = 940 Females

for 1000 Males.

ANNEXURE-V

A N N B A - III
STATIST SHOUTS THE LET - GOOD IN CHARLEN, ARDA.
P.TI. TO IN GRANDIN ARDA.
L · · · · · · · · · · · · · · · · · · ·

and the same of th	P.TI	IN Glandin Ports.	
	Melas	Fenales	Total
Age Group 0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44	Melas	Tenelss 2 (20.50) 2 (20.60) 1 (10.00) 1 (10.00) 1 (10.00) 1 (10.00) 1 (10.00)	2 (10.00) 2 (6.67) 3 (10.00) 4 (13.33) 6 (20.00) 5 (16.67) 3 (10.00)
45-49 50-54 55-59 60+ Total	2 (10.00)	1 (10.00) 	1 (3.33) 30

Medical Institutions in the I.T.D.L. eres:

The following are the Honait els, Primary
Herlth Centres/Mobile Medical Units Punctioning

Health Centres/Mobile Medi	ical Units Ind	0.0.1.0.4.0.0
in the I.T.D.A. areas.		
Sl. District	Mend 1	Location of the hespital
No.	Amrabad	1. Govt. Civil Hospital
1. Mehaboobni rar		2. Primary Health Centre,
		3. Fr Lmary Health Centre,
		4. Nobile Medical unit, Hannanor,
•		5. Govt. Ayurvedi Dispen- sery, Mennehoor,
	Achempet	6. Govt. Civil Hospital, Achempet,
	-	7. Primary Health Centre, Siddepur
	Belmoor	8. Primary Health Centre, Belmoor, 9. Govt. Ayurvedi Dispen- sery, Kondragula.
	Lingel	10. novt. Civil Hospital, Lingal, 11. Primary Uppunuthala, 12. Health Centie, Ambet- palli.
2. Pralesam:	Dornale Dornale	13. Cheachu Mobile Medical unit, P.Dornala, unit, P.Dornala, 14. Primary Health Centre, P.Dornale, 15. Upgreded Primary
	Yerregonite palem	gondapatem 16. Govt. Homeopathi Dispensary, Veerabha- drapuram. Arapuram. Brimery Heelth Centre,
	Pullelech ruyu Atmekur	18. Govt. Civil Hon pitale
3. <u>Kurnool</u> :	Mechania	20. Govt. Clari no.
4. Guntur:	Veludia	2. Gowt. Ayurvadic Dispen-

CASE STUDY-I:

An old man by name Mekale Veeramma (55 years) of Maddimadugu Village of Mahaboobhagar district, got burnt his right leg when he was sleeping by the side of the hearth.

Inspite of the treatment given by the G.C.C. sponsored R.M.P.

Doctor, the pains due to burning seasstion did not not suppressed. He was advised to go to PHC, Padra for further treatment. As this Village is far interiorly situated, his son is reluctant to take his father to Padra due to lack of conveyance facilities, to take his father to Padra due to lack of conveyance facilities, The research team from TOR & TI., Hyderabid, had persuaded the patient to go to Pedra by arranging a Vahitle. The Doctor has treated the wounds and the patient felt relaxed from the nains. If the patient left untreated, there is a danger of removal of his leg due to gangrage.

This shows that the Chanchus are not interested to go to hospitals situated at far every place; for treatment due to lack of conveyance facilities and poverty.

ANVEXURE-VIIB

CASE STUDY-II:

One women named Bhumani, Sukkarna, (40 years) of Uallakunta Village, Prakasham district, was bitten by the dog not are her right eye, and no one to take her to the hospital situated at Dornala for treatment. She is also unwilling to go to hospital with simple reason that due to her absense at the house, no one is to look after har family as she is the only earning member by selling firewood ato; Further her husband is not fatching any income for the family maintenance and he is alwars in intoxication modd. The research team from TOR & TI., Hyderal ad, had persuaded her to go to Dornala Hospital. After Hyderal ad, had persuaded her to go to Dornala Hospital. After first aid treatment she was sent back to her village by providing a vehicle. The M.M.Unit deator was advised to have a close watch on this poor women till she is Income from that wound.

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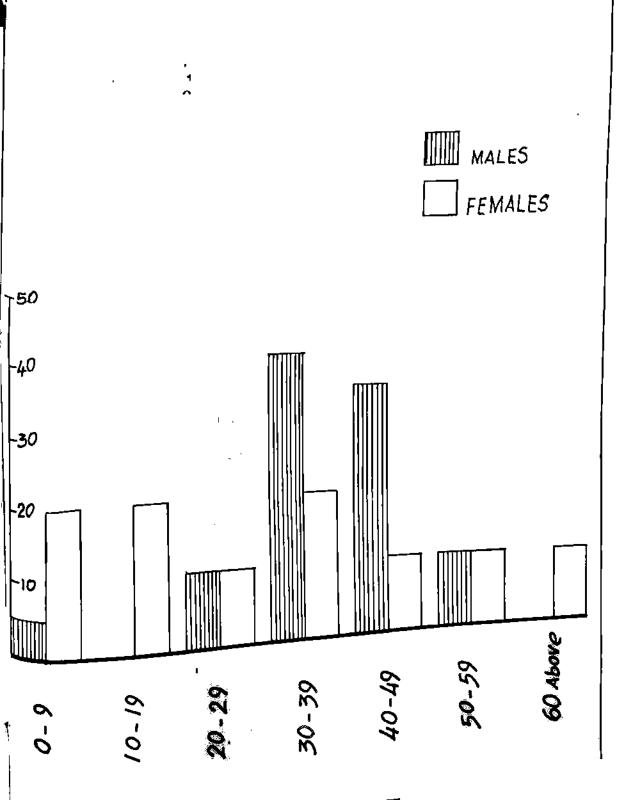
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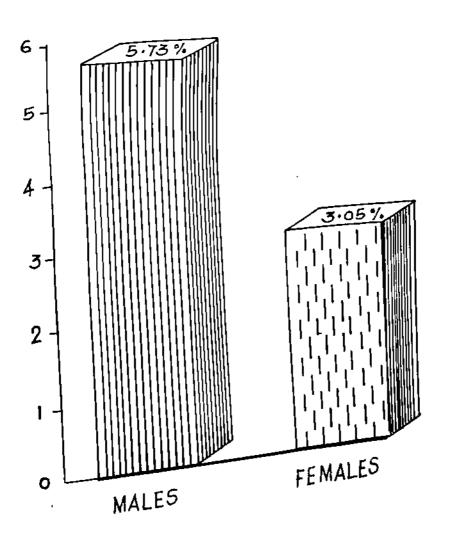
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AGE GROUP WISE NUMBER OF T.B PATIENTS AMONG CHENCHUS IN STUDY AREA.

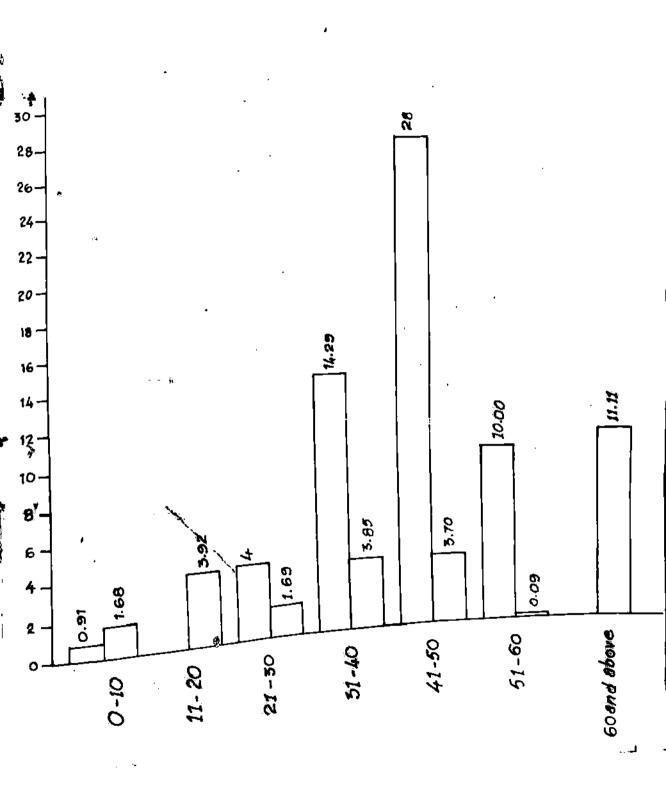


Prevalence Of I.B. Among

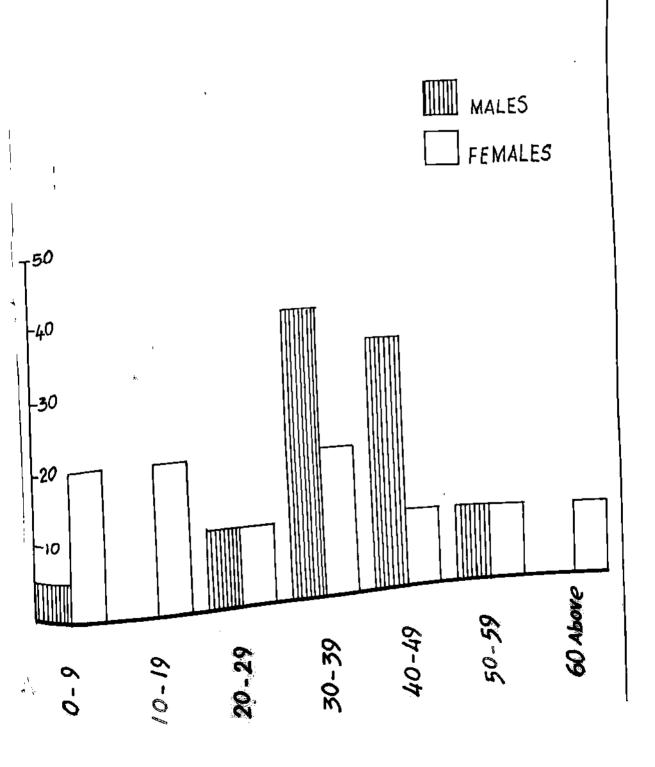
Tribal Population



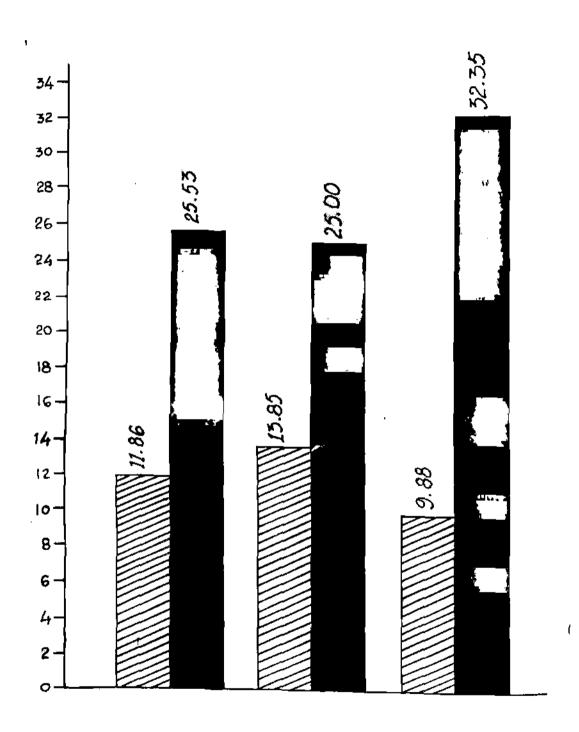
Prevalance of T.B. In Various Age Groups



AGE GROUP WISE NUMBER OF T.B PATIENTS AMONG CHENCHUS IN STUDY AREA.



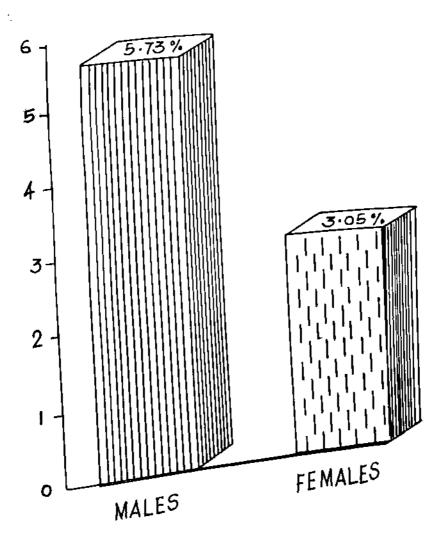
Prevalance Of T.B. and Household Sanitation



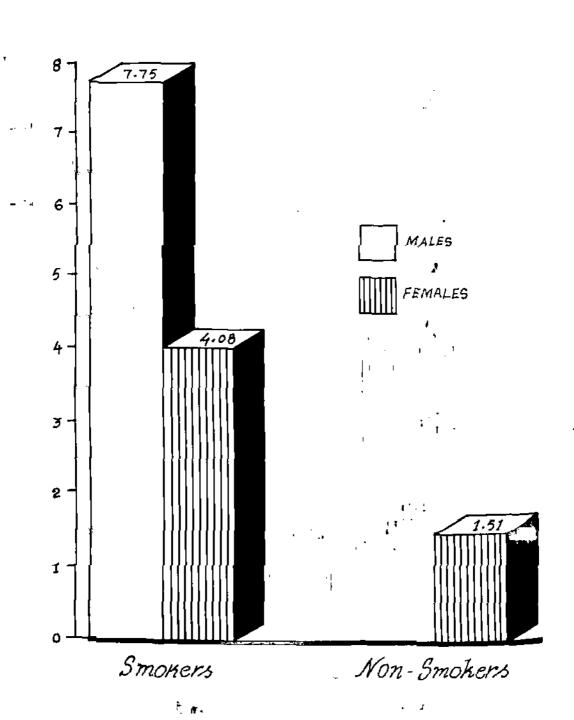




Prevalence Of T.B. Among Tribal Population.



PREVALANCE OF T.B.
AMONG SMOKERS AND NON-SMOKERS



Prevalance of T.B. In Various Age Groups

