

Report for May and June 1969

(including first week of July, till the begin of the holiday of the Unit)

1. Staff: Dr. Christoph Schlage, chemical director, left the Unit on 25th May 1969. Now he is in Germany at the Institute of Child Nutrition, Dortmund.

Dr. Ulrich Oltersdorf, a German biochemist, took over the place of Dr. Schlage. He arrived in Bumbuli on 2nd May 1969.

Miss Krista Künstner, a German kindergarten-teacher, arrived on 2nd May 1969. She leads the Soni Rehabilitation Centre and trains the following girls, which are employed to the same time:

Miss Zubeba Ally

Miss Mariamu Hassani

Miss Elisabetha John

Miss Rehema Kusilwa

Miss Aziza Kamadhani

Miss Rachel Shemlanwa

Miss An elina Yohana.

Mrs. Mndeme is employed since 1st June 1969 as a trained nurse.

She is in charge for the U.F.C.'s in the Bumbuli area.

Mr. Mwaki Bwana is employed since 1st June 1969. He is connecting with production and distribution of "Masuma" and assists the construction of water pipelines.

Mr. Robert Hoza is employed since 1st June 1969. He will be trained in statistical calculations and in survey work.

Mrs. Josephine Chisongela is back from maternity leave since 1st June 1969 and

Mrs. Jestina Mjanga since 1st July 1969.

Dr. Joachim Kreysler went on a three months home leave on 5th July 69.

2. Visitors: Mr. J.D. Heijnen, Bureau of Resource Assessment and Land Use Planning, University College Dar es Salaam  
East African Community, Working Party on Research Priorities and Administration:

Dr. T.N. Maletnlema, Dar es Salaam

Dr. J.J. Njeroge, Nairobi

Mr. A.K. Oteng, Entebbe

East African Institute of Malaria and Vector Borne Diseases,

P.O. Amani:

Dr. J.N. Raybould

Mr. A.S.A. Yagunja

Mr. H.K. Mhiddin

Mr. Hans J. Hansmann, German Volunteer Service, Dar es Salaam  
 Mr. Heinz-Jürgen Gossow, " " " "  
 Dr. Victor K. Cesterling, CMC Hospital, Vellore, India  
 Graf Thilo von Brockdorff-Ranzau, German Embassy, Dar es Salaam  
 Mr. A. Kiefer, Kübel-Foundation, Bensheim, West Germany  
 Mr. C.S. Mweta, Regional Health Officer, Tanga  
 Dr. D.M. Alankhart, Royal Tropical Institute, Amsterdam  
 Prof. Dr. C. Walter, KCMC, Mushi

3. Visits: Dr. Kreysler attended twice the meeting of the Tanzanian Nutrition Committee in Dar es Salaam. Mr. Lal attended once this meeting and submitted to the T.N.C. a "Bibliography of the Nutrition Research in East Africa".

Mr. Lal and Dr. Oltersdorf visited the Ismani area (Iringa) because of preparation of the planned nutritional status survey. Out of the same reason Dr. Kreysler and Mr. Lal have had talks with Prof. Ch. Wood, University College, Medical Faculty, and Mr. Heijnen, B.R.A.L.U.P., in Dar es Salaam.

Dr. Kreysler had a meeting with members of the National Food and Nutrition Commission in Lusaka, Zambia. For this commission he had a flight to Germany, looking for medical doctors, and another flight through the northern province of Zambia, looking for possibilities to carry out the planned survey.

Dr. Kreysler and Dr. Oltersdorf attended the East African Agricultural Economics Society Conference in Nairobi. There Dr. Kreysler read a paper: "Village level production and marketing of a low cost high-protein food for children".

Dr. Kreysler together with Mr. Kiefer, Kübel-Foundation, Germany, had several talks in Dar es Salaam with the Tanzania Development Trust Fund, the German Embassy and the Ministry of Health and Social Welfare.

Dr. Kreysler, Mr. Lal and Dr. Oltersdorf had talks with the D.M.C. in Lushoto over extension of the U.F.C.'s in the Lushoto district. A talk between Mr. Lal and the D.M.C. in Tanga had the same subject.

In Dar es Salaam Dr. Kreysler handed over to His Excellence the Second Vice-President Mr. Kawawa and the Tanzania Development Trust Fund the cheque, which the Unit received from the Kübel-Foundation, Germany, for the self-help-program in Mayo, Lushoto district.

#### 4. Medical Activities:

##### a) U.F.C.'s:

No. of Clinics at	1st att.	reatt.	total	No. vacc. (small pox)	
Mayo	10	23	917	940	8
Funta	9	38	708	746	24
Soni	10	48	643	691	-
Lwandai	10	22	582	604	-
Kigurunde	9	27	710	737	-

No. of Clinics at	1st att.	re-att.	total	No. vacc.	(small pox)
Mbuzii	10	104	1125	1229	-
Shashui	9	126	1010	1136	-
<b>T C T A L :</b>	<b>67</b>	<b>388</b>	<b>5695</b>	<b>6083</b>	<b>32</b>

The average attendance/clinic is increased to 92, especially in the last weeks was a high attendance (between 110-120). The low number of vaccinations given reflects the fact, that no vaccine was available. The ordered stuff did not arrive up to now.

b) Seasonal follow-up of malaria infection in U.F.C.'s:

During May this cross-sectional check was finished in the U.F.C.'s Mayo (19 samples - no positiv) and Funta (44 samples, 1 positiv). That means from 445 tested slides we obtained 19 positive results (4,3 %).

c) Follow-up studies in U.F.C.'s:

Every three months anthropometric and biochemical (Hgb, Hkt, serum electrophoresis) data of the children in the U.F.C.'s are collected and compiled together with sociological data. These will be evaluate by the computer of the Mathematics Department of the University College Dar es Salaam. The last collection of data took place in May, the next one will be in August.

d) Soni Rehabilitation Centre:

The S.R.C. was opened again at the beginning of May when Miss Kunstner, the German kindergarten-teacher arrived. Because the repairing works of the house are still not finished, the S.R.C. runs only with the half of the planned capacity of 50 children. In August the S.R.C. will be completed.

The children are selected out of U.F.C.'s of the Soni area and are collected by a car in the morning and brought back in the late afternoon. At the moment are 25 children there. These undernourished children (below 75 % standard) are fed on a diet based on maize and beans. In addition they get fruits and vegetables. The children are checked weekly by weighing and every second month by full clinical, anthropometric and biochemical (blood, urine) measurements. Their food is calculated in respect of their requirements. The diet is checked by weighing the food consumption for every single child, re-calculation with food-tables and analysis of the food in the unit-laboratory.

5. Laboratory activities:

a) clinical chemistry

Determinations of U.F.C.'s and S.R.C.'s children

in blood: Haemoglobin	315	haematocrit	314
Total protein	262	Serum electrophoresis	237

in urine: Total N	30	Urea	30	Ammonia	30
		Creatine/Creatinine	119	Hydroxyprolin	27
		Riboflavine	70		

Total number of determinations: 1459.

b) food chemistry

Determination of local beverage (pombe), soyabeans, cowpeas, cowpea-leaves, dried fish (dagaa), sambia (local fruit), and food from S.R.C.

protein	15	fat	8	reaucin, sugar	10
water	8	ash	12	fibre	10
calcium	12	iron	33	phosphorus	12
riboflavine	4	acid	6	alcohol	3
spec. gravity	9	sol. matter	3	insol. matter	2

Total number of determinations: 147

c) water assessment

End of May we introduced the determination of fecal colis and non-coli-form microorganisms in water. For this we use the apparatus of Millipore with prepared agar-plates, dry and water incubator. The determination is still in a trial state, the results are not sufficiently reproducible.

d) malaria slides

In addition to the determinations of U.S.C.'s children (see 4 b) 24 slides in S.R.C., 1 positiv (4,1 %)

e) stool examination: in S.R.C.

	Ascaries	Hookworm	others	multiple infection	negativ
children (2 examinations)	24	5	1	5	10
staff	1	3	1	3	2

Total number of determinations: 55

6. Horticulture Project May:

All in former reports mentioned activities are continued. The peasants introduced potatoes under supervision of Mr. Morinaga very fast (about 170 debbe potatoe seed). The seed is paid by the peasants themselves.

7. Soni Bakery:

The bread production started again at the begin of May. Since the addition of calcium acetate the quality of bread is good. The bakery produces about 1.000 breads per week. The bread is sold in 13 dukas.

In the moment the price of wheat flour is increased and it was tried to sell the bread 5 cents more expensive. But many people refused, and therefore the bread is sold to the old price.

Lysine arrived at the middle of May. The paper for the Lysine-enriched bread is printed. This bread could not be introduced due to sickness of the

manager of the bakery. The production of Lysine-bread will start after information of the duka-owner and first in a low-scale production, because the people do not like to pay more money for bread.

8. Maize Mill Kayo:

Milling continued in the same way as in the former months.

A total of 4.500 kg was milled during the last two months. 655 customers were coming to the mill (average: 6,9 kg per customer). Perhaps the amount will increase in the next months, when the harvest is finished. The profit of the mill would improve if more customers would come from distances more than 3 miles.

9. Production and marketing trial of "Masuma" :

This trial goes ahead in 20 dukas. It seems that several families use the "Masuma" as staple food, and that some people begin to make themselves this maize-bean mixture.

The M.P.N.R.U. had an own standing-place at the Saba-Saba Exhibition in Lushoto. Here the Unit advertised the "Masuma" by cooking it and by giving the children samples of cooked "Masuma". The run for "Masuma" was so huge that the Unit-staff had to cook the whole day. The staff explained the mothers the advantage of "Masuma" compared to the food usually eaten in this area (only maize).

10. Funta water-project:

Since beginning of May the people of Funta build a water pipeline in a self-help program under assistance of the M.P.N.R.U. The project is supported by the Tanzania Development Trust Fund with 5.000/- Tsh.

There are two sources giving about 1 Litre/sec. The pipeline will have a length of 1.3 miles, one catchment and one reservoir-tank (50.000 litres). During the last two months 515 people were helping at this work. The channel for the pipeline is almost finished.

11. Publication:

Dr. J. Kreysler and Dr. I. Schulze-Nestén:

"Die Bedeutung sozialer Faktoren für die Meinungsbildung über eine 'under-five's-clinic' in Nordost-Tanzania - das Beispiel Dumbuli"  
("Afrika heute", Bonn, May 1969)

Respectfully submitted

13th July, 1969. Dr.J.Kreysler, Mr.K.K.R.Lal, Dr.U.Oltersdorf