



## OUTLINE

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\* At the regional level

1. A regional health service for every Mohafazat except for Beirut because health Legislation and execution are the responsibilities of the Municipality without any control by the Ministry.

2. A Health Section directed by a doctor of the Caza and directly related to the regional health service of the Mohafazat.

A more detailed explanation is shown in the chart:





b - Staff

Many of the subdivisions and departments shown in the chart, lack the adequate Personnel in number and credentials for example the vital and Health statistics department has at present two employees who are not qualified, despite our knowledge that this department is very important for the establishment of any health planning and Policy.

The strong centralization of the Ministry as it is the case in many other developing countries reveals a state of poor economy and low standard of living.

Since the Ministry of Health is in theory responsible for the provision of treatment as well as protection of the Lebanese population it should have been the center of expertise at all levels but instead of this we find it poorly staffed with many vacant positions although budgeted for and a low salary scale which results in lack of motivation and job dissatisfaction among the already existing personnel.

The staffing of the Ministry is a real major problem which hinders its functions at all levels and reflects poor organization.

c - Budget

The budget of the Ministry reflects health as being not only of secondary importance but the least important among

the other sectors like the economy, Education, Postes, telephone and Telegraphs (PTT) etc.

A time trend of the budget of Health is significant here because it shows the status quo condition of the ministry instead of its development. It's percentage budget out of the total budget did not change since the 60's despite the development of an increasing number of techniques based upon new scientific knowledge for the development of organized Public Health programs.

These give rise to new responsibilities at the decision-makers level who seem to be relaxed because the budget of the Ministry of Health has increased in terms of crude amount of money but percentage wise it is still the same:

The Budget of the Ministry of Health  
and its percentage out of the total budget

| <u>Year</u> | <u>Total Budget<br/>(Million LL.)</u> | <u>Health Budget<br/>(Million LL.)</u> | <u>Percentage</u> |
|-------------|---------------------------------------|--|-------------------|
| 1962        | 375,000                               | 13,673                                 | 3.7               |
| 1963        | 425,400                               | 13,833                                 | 3.3               |
| 1964        | 476,400                               | 15,189                                 | 3.2               |
| 1965        | 514,790                               | 16,463                                 | 3.2               |
| 1966        | 590,735                               | 24,175                                 | 4.1               |
| 1967        | 632,881                               | 24,055                                 | 3.8               |
| 1968        | 648,500                               | 23,502                                 | 3.6               |
| 1969        | 660,600                               | 22,013                                 | 3.3               |
| 1970        | 736,625                               | 22,611                                 | 3.1               |
| 1977        | 1,851,374                             | 67,802                                 | 3.7               |
| 1978        | 2,398,456                             | 55,908                                 | 2.3               |

In 1978 the percentage out of the total budget has decreased to 2.3%.

Here important questions can be raised:

- Is Health becoming more neglected in Lebanon?
- Is our health situation bright enough that it does not deserve more attention?
- Is it because of the war that the other problems in the country have the priorities?
- Is all the damage which occurred in Lebanon restricted to the other sectors? (No injured people, no epidemics, no handicapped?)
- Is the Lebanese Government relying more and more on the Private Sector?

And last but not least:

- Are our decision-makers aware of the Health development in the world?

In other words, the Ministry of Health in Lebanon is spending nearly LL.17.00 or nearly \$5 per inhabitant and used to spend in the 60's nearly \$2 per inhabitant compared to the United States of America which spent in the 60's nearly \$50 and nowadays over \$200 per inhabitant and per year.

The problem becomes more acute when even this low budget is badly spent for example in 1978 the LL.55,908 million are being spent as follows:

| <u>Type of Expenditure</u>                      | <u>Amount in LL.</u> | <u>Percentage</u> |
|---|----------------------|-------------------|
| I. Salaries                                     | 21,465,400           | .38%              |
| II. Indemnities, aids<br>& grants               | 181,000              | 0.3%              |
| III. Administrative needs                       | 1,133,000            | 2%                |
| IV. General Admin-<br>strative needs            | 655,000              | 1.2%              |
| V. Maintenance                                  | 275,000              | 6.5%              |
| VI. Publicity & exterior<br>communica tions     | 177,100              | 0.3%              |
| VII. Aids (Private &<br>Governmental hospitals) | 30,020,000           | 54%               |
| VIII. Undefined expenditures                    | 643,000              | 1.2%              |
| IX. Central Public Health<br>Lab.               | 1,359,300            | 2.5%              |
| <u>TOTAL</u>                                    | <u>55,908,800</u>    | <u>100%</u>       |

Out of the LL.3 millions allocated for the social and educational aids, LL.27.5 millions are allocated for the treatment in the private hospitals.

As a rough analysis we can say that - 42% of the total budget goes for salaries and administrative purposes, - 54% on the curative aspect, and hardly 4% on the preventive aspect of health care.

But if we consider that the employment or salaries, indemnities and maintenance are of curative basis, we can say that more than 90% is spent on the curative aspect of health care.



through a continuous process of health development, intimately linked with the socio economic development of the country.

At least, if the ministry of health is not able to provide all the health care in Lebanon, we expect it to develop qualities for supervision of the other health providers being official or non official but even this disappoints us to the point of dissociation and lack of coordination with the other agencies:

- The municipality of Beirut is completely independent from the Ministry of Health.
- The National Social Security Fund NSSF is completely dissociated from the Ministry.
- No direct supervision of the private sector.

As a summary the function of the Ministry is: a) running the Governmental facilities (hospitals, clinics and dispensaries) and b) helping the private facilities serving the people usually on a contract basis.

#### B) General Health Service Structure

##### 1\* - Health Facilities

Free medical care is provided by the government to the indigent sector of the population but the quality of this medicare has most of the times been questionable.

In addition, medical care is being widely provided by the Private health Sector.

Even when the best medicare and the highly qualified is provided by Private institutions, one should be careful not to generalize the effectiveness of the whole Private Sector in terms of quality because some of them can be profit-making institutions which do more harm than good to the people especially because of the absence of any governmental supervision.

Attempts at evaluation of the different hospitals, health centers and dispensaries should be started very soon to be able to assess our resources and make use of the best we have. Evaluation should be based on such factors as costs, resources, and the quantity and quality of services.

The Lebanese Government emphasizes the role of the hospital, as if health means hospitals and hospital beds. This is typical of the curative medicine orientation because curative medicine rests on good hospital facilities as its basis whereas preventive medicine depends largely on outpatient services for the ambulant patients and on centers for health promotion through education of the people.

The basic elements of our health services are:

\* The dispensaries: described by John Bryant as being the smallest unit of health care in most developing countries, it is usually a one room building, poorly maintained



and equipped. According to Bryant the typical picture of a dispensary is: a man with marginal training, limited equipment, few supplies, little or no supervision:

"It does not cost much, and does not provide much."

Since the impact of the dispensaries on Health is slight an attempt to transform them into health centers should be started.

\* The Health Centers:

It is usually the most Periferal unit of the health service. It's action usually varies with the resources of the country. In general a district of 100.000 people can be served by a district hospital and four health centers.

Paramedicals are very important in staffing the health center with an immediate supervision of medical personnel serving the district Hospital.

Therefore the health center is a very effective unit at the peripheral level especially if referrals can be operated to treat the more sophisticated cases and to ensure continuity of health care.

The Health centers approach would be the best and least costly for meeting the immediate health needs of Lebanon and ensure decentralization of health facilities.

\* The Hospitals:

Hospitals can be divided as follows:

- The district hospital; it should support directly the efforts of the health center, and rely on auxiliaries as well as professionals.
- The Regional hospital is more developed than a district hospital especially in terms of specialty care. It's size might vary from 250 to 500 beds.
- The central hospital: this should be central to all other health facilities and can provide the most advanced medical care in the country. Usually there should be one such unit, at the level of the Ministry of Health and should be staffed by highly qualified professionals.

In Lebanon differentiations among the hospitals rarely exist, this is mainly due to the lack of planning.

The following table shows the distribution of governmental hospitals and beds according to Mohafazats:

Distribution of Governmental Hospitals  
and beds in Lebanon according to Mohafazats (1978)

| <u>Mohafazats</u> | <u>Estimated<br/>Population</u> | <u>Number of<br/>Governmental<br/>Hospitals<br/>1978</u> | <u>Number of<br/>Governmental<br/>Hospitals<br/>1971</u> | <u>Total<br/>No. of<br/>Beds<br/>1978</u> | <u>Effective<br/>Number of<br/>Beds<br/>1978</u> | <u>Number of<br/>Effective<br/>Beds Per<br/>100,000</u> |
|-------------------|---------------------------------|--|--|---|--|---|
| Beirut            | 885,000                         | 2  | 1  | 250                                       | 30   | 3/100,000   |
| Mount<br>Lebanon  | 781,250                         | 6  | 6  | 427                                       | 206  | 26/100,000  |
| North<br>Lebanon  | 602,500                         | 4  | 4  | 257                                       | 47   | 8/100,000   |
| South<br>Lebanon  | 566,250                         | 5  | 5  | 330                                       | 300  | 53/100,000  |
| Bekaa             | 415,000                         | 5  | 5  | 386                                       | 370  | 89/100,000  |
| <b>TOTAL</b>      | <b>3,250,000</b>                | <b>22</b>  | <b>21</b>  | <b>1650</b>                               | <b>973</b>                                       | <b>30/100,000</b>                                       |

Source of the Number of Hospital and Hospital Beds: Ministry of Health

Despite this distribution one cannot assume that all the hospital beds are the same in terms of quality and utilization.

Knowing the differences in the quality of medical care each hospital is offering, we question, the proper utilization of the hospital beds which register very low occupancy rates in the governmental hospitals especially after the war mainly because of loss of manpower.

Any way, according to the Ministry's actual report to the Council of development and reconstruction, the occupancy



\* The dispensaries are the other main health component of the health service. Despite its limitations the dispensary is the outlet of many voluntary social and religious movements, thinking that this attempt would cover the population but one would ask here important questions:

- What kind of care does the dispensary provide to the Public?
- Does this create a feeling of false reassurance at the level of the decision-makers?
- How many of these dispensaries are providing supervised medical care?
- How many of these dispensaries can insure proper referrals and continuity of care?

Any way the distribution of public and private dispensaries according to the Mohafazats and the Providers in 1971 is as follows:

Distribution of Public and Private  
Dispensaries according to the Mohafazats and the Providers  
in 1971

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| <u>Mohafazats</u> | <u>Ministry<br/>of<br/>Health</u> | <u>Social<br/>Affairs</u> | <u>Muni-<br/>cipality</u> | <u>Red<br/>Cross</u> | <u>Social<br/>Movement</u> | <u>Total</u> | <u>%</u>  |              |            |              |            |             |
|-------------------|-----------------------------------|---------------------------|---------------------------|----------------------|----------------------------|--------------|-----------|--------------|------------|--------------|------------|-------------|
| Beirut            | 1                                 | 2                         | 15                        | 3                    | 26                         | 47           | 16.5      |              |            |              |            |             |
| Mount<br>Lebanon  | 9                                 | 4                         | 6                         | 11                   | 79                         | 109          | 38.4      |              |            |              |            |             |
| North<br>Lebanon  | 13                                | 6                         | 2                         | 5                    | 18                         | 44           | 15.5      |              |            |              |            |             |
| South<br>Lebanon  | 14                                | 11                        | -                         | 9                    | 18                         | 52           | 18.3      |              |            |              |            |             |
| Bekaa             | 8                                 | -                         | -                         | 4                    | 20                         | 32           | 11.3      |              |            |              |            |             |
| <b>TOTAL</b>      | <b>% AGE 45</b>                   | <b>16%</b>                | <b>23</b>                 | <b>8%</b>            | <b>23</b>                  | <b>8%</b>    | <b>32</b> | <b>11.3%</b> | <b>161</b> | <b>56.7%</b> | <b>193</b> | <b>1000</b> |

There is no coordination between the private and the governmental hospitals and dispensaries even among the Public Health facilities themselves. This is the cause of duplication of facilities like what is happening in Batroun, there are two dispensaries, one for the Ministry of Health and the other for the National Social Security Fund NSSF in the same building owned by the Ministry of Health.

Even if the distribution of health facilities does not seem very frustrating, still some villages lack the means for health care and here arises the problem of amenability because large proportions of the population lack the possibility of

contact with the health services but this problem might be justified at times by the Health insurance coverages.

2\* - Health Manpower

Progress in the health field depends on having well trained personnel, sufficient in number and equitable in geographical distribution to provide the needed services for the population.

The Ministry of Health should know the resources of health manpower existing in the country, both in the government and in the private service. This will be a kind of supply analysis to be able to measure the current supply of all types of health workers.

Also it should assess the need and the demand for medical care and other health services and it should also decide on the types of health personnel and the training they need to provide efficient medical care.

Estimated Health Personnel in Lebanon

|                        | No.  | Pop/Health Personnel |
|------------------------|------|----------------------|
| Doctors                | 3000 | 1/1080               |
| Dentists               | 932  | 1/3480               |
| Pharmacists            | 894  | 1/3635               |
| Nurses                 | 2000 | 1/1625               |
| Nursing Aids           | 998  | 1/3256               |
| Midwives               | 500  | 1/6500               |
| Physiotherapists       | 96   | 1/33854              |
| Laboratory Technicians | 200  | 1/16250              |
| X-Ray Technicians      | 20   | 1/162500             |
| Sanitarians            | 200  | 1/16250              |

Source: Ministry of Health, October 1977.

To be able to judge our gross figure in Lebanon let us compare it to other countries.



Health Personnel: Latest Available Year

| Country or Area                   | Year | Physicians | Population Per |            | Dentists | Pharmasists | Nurses  | Mid-wives |
|-----------------------------------|------|------------|----------------|------------|----------|-------------|---------|-----------|
|                                   |      |            | Physician      | Pharmasist |          |             |         |           |
| Bahrain                           | 1972 | 127        | 1732           | 8          | 13       | 8           | 645     | 314       |
| Saudi Arabia                      | 1973 | 2000       | 4995           | 117        | 45       | 117         | 2057    | -         |
| Syria                             | 1972 | 1914       | 3485           | 537        | 537      | 1017        | 2345    | 1055      |
| France                            | 1971 | 71039      | 721            | -          | -        | -           | -       | -         |
| Italy                             | 1971 | 99341      | 544            | -          | -        | 37200       | 127399  | 18828     |
| Poland                            | 1972 | 53040      | 623            | 14614      | 14614    | 13367       | 112722  | 12911     |
| Spain                             | 1972 | 49256      | 700            | 3537       | 3537     | 16925       | -       | 4124      |
| Sweeden                           | 1972 | 11920      | 681            | 6990       | 6990     | -           | 51680   | 640       |
| United Kingdom<br>England & Wales | 1971 | 62000      | 797            | 13400      | 13400    | 13900       | 165400  | 18500     |
| Australia                         | 1971 | 16107      | 792            | 3477       | 3477     | 8046        | 89520   | -         |
| United States                     | 1971 | 333299     | 621            | 104000     | 104000   | 130750      | 1175000 | -         |
| Israel                            | 1972 | 8453       | 364            | 1748       | 1748     | 1892        | -       | 603       |
| Lebanon                           | 1973 | 2300       | 1330           | 583        | 583      | 612         | 2528    | -         |

Source: World Health Organization.

We can conclude from this that Lebanon lacks health personnel in terms of quantity especially the Paramedicals although it is better shaped than most of the other developing countries.

But here some pertinent remarks are essential:

- The meaning of a doctor or physician varies from one country to the other in terms of quality and function and this makes us careful while assessing these resources outside the real context of the country itself.

Therefore one should be aware that the number of health manpower is not very much significant although it is important because we cannot but give the deserved credits to the quality of medical care rendered, this also refers to the type of education and training they have undergone.

- The more acute problem appears when we talk about the distribution of health Personnel because this is an important indicator of how resources are being used.

These being taken care of, let us study the distribution of our Lebanese health manpower according to Mohafazats, the latest available is the 1971 distribution:





in other words to be insured one should fulfill the following requirements:

- I. To be Lebanese.
- II. To be under contract in Lebanon, written or verbal.
- III. To work under such contract on the Lebanese Territory.

However the foreign wage-earners may be entitled to the benefits of the NSSF if they fulfill the following two conditions:

1. Reciprocal treatment to Lebanese by the country of the wage-earner.
2. Possession of work-permit.

Beneficiaries will include all the persons living with the insured under the same ceiling and at his expense. They comprise the parents, wife, husband, and children under sixteen years of age or over sixteen if they are following their studies.

If the insured needs hospitalization from the fund except in emergency cases, this approval will be valid for thirty days from the date of insurance.

In terms of hospital fees, the fund and the patient will pay his share in the form of daily fee or 24-hour stay in the hospital.

30% of the fee will be paid by the insured directly



Any way one cannot forget that the National Social Security Fund has provided a good relief for the population especially in terms of quantity of care but if its role continues to be limited at providing the fund it will be incomplete because the quality care would be neglected. The NSSF should then coordinate with the high level Health providers in the country to be able to ensure more and more of better quality care, going hand in hand with the complete coverage of the Population.

ii) The Ministry of Health:

Coverage by the Ministry is mainly for hospitalization of indigent patients who are limited in number. The rates of the Ministry are the same as those of the NSSF except that the patient is not required to pay 30% of his bill. The whole patient bill is reimbursed by the hospital.

iii) United Nations Relief and Works Agency:

This is an agency responsible for the welfare of the Palestinian refugees. On a contract basis this agency reimburses the hospital concerned for the total patient fee.

iiii) The Private Insurance Groups:

There are some other third party payers mostly the private insurance groups who also reimburse the hospitalization of their patients on a Contract basis with the Selected hospital.

### C) Levels of Preventable Diseases

Health cannot be measured because its presence can be a matter of a subjective judgment. But disease is measurable to an extent that it reflects important forces in the community. Therefore we have to use disease rather than health as an indicator which will enable us to compare among countries and even in the same country at different points in time. That is why to study the Pattern of diseases within a society means to study also the degree of its development.

#### 1\* - Trend of Reported Communicable Diseases

In Lebanon unfortunately, the rates of diseases cannot be studied because of under-reporting, it will give us a biased picture on the state of the Lebanese health.

Therefore the trend of communicable diseases will be of value for us, because assuming the under-reporting in the present as well as in the past, it will enable us to study the evolution of these diseases.



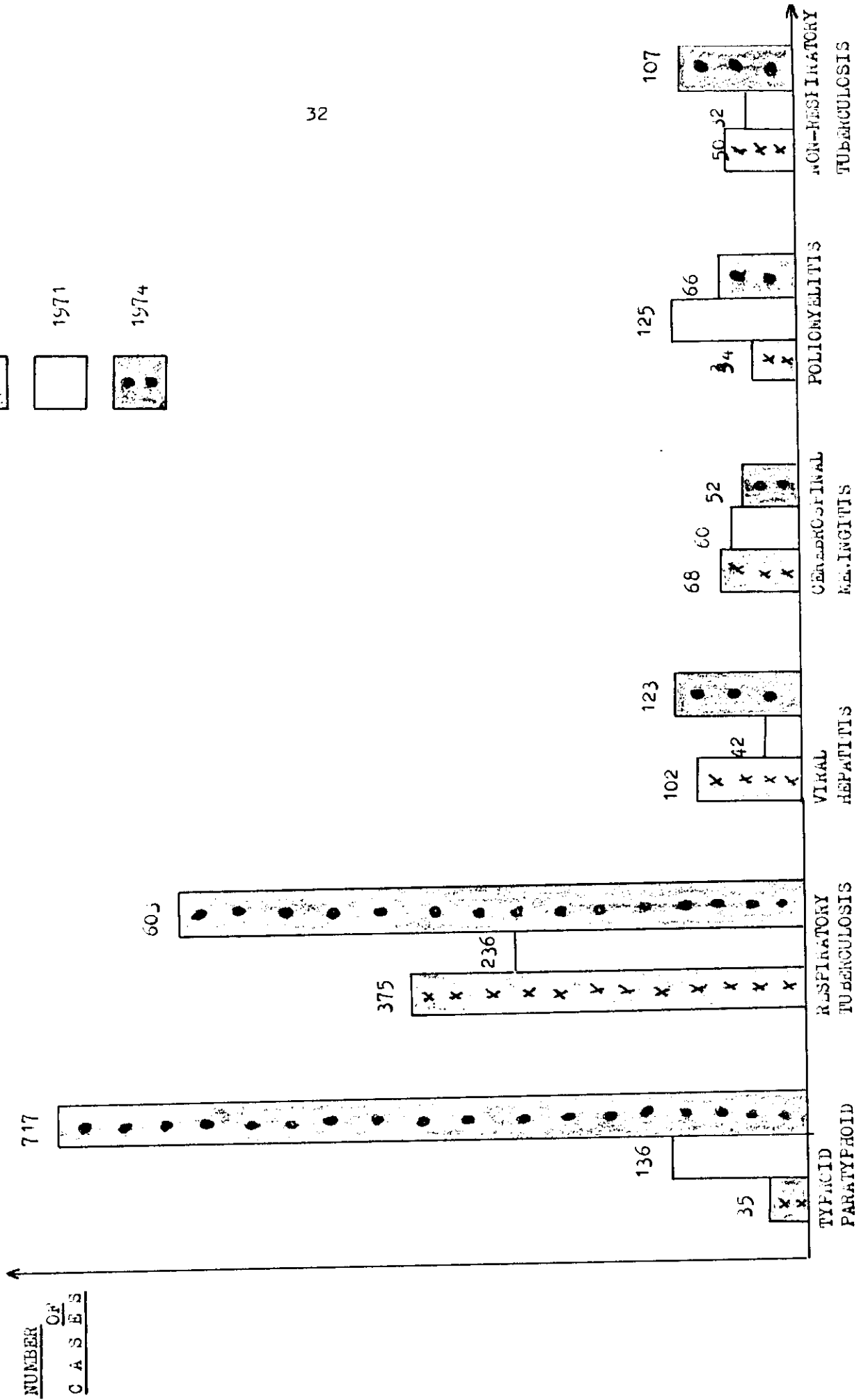
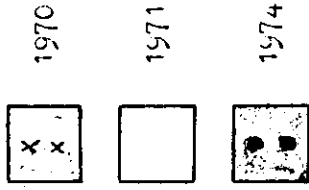
Percentage of Reported Communicable  
Diseases in Lebanon 1974

| Diseases  | %           |
|---|-------------|
| Typhoid and paratyphoid   | 36.5        |
| Respiratory tuberculosis  | 30.7        |
| Shistosomiasis  | 8.65        |
| Viral hepatitis   | 6.26        |
| Non respiratory tuberculosis  | 5.44        |
| Polionyclitis   | 3.36        |
| Cerebrospinal meningitis  | 2.64        |
| Alimentary intoxication   | 2.49        |
| Dysentary B+A   | 1.22        |
| Malaria   | 1.22        |
| Others (diphtheria, rabies, tetanus,<br>leprasy, maltese fever,<br>scarlet fever, anthrax, measles) | <u>1.52</u> |
| TOTAL   | 100.0       |

Source: Ministry of Health.

TREND OF REPORTED COMMUNICABLE DISEASES

DURING 1971, 1972, 1974





Here, some problems arise:

- I. The environmental health measures which would reduce enteric infections, respiratory infections, food and water born diseases do not exist.
- II. These diseases are underestimated because of lack of reporting.
- III. Lack of epidemiological surveillance.
- IV. The diagnostic facilities, to detect the diseases at their early stages are limited.
- V. Immunization campaigns which would reduce Polio, diphteria, tetanus etc... are not always carried

The following table shows the number of vaccinations according to the dispensaries carried during the year 1977.

Vaccination According to Dispensaries and  
by Mohafazats 1977

| Mohafazats          | Total No.<br>of<br>Dispensaries | Number<br>of<br>Polio<br>Vaccine | No. of<br>Triple<br>Vaccine | No. of<br>Small<br>Pox<br>Vaccine | No. of<br>Tetanus<br>Vaccine | No. of<br>Whooping<br>Cough<br>Vaccination |
|---------------------|---------------------------------|----------------------------------|-----------------------------|-----------------------------------|------------------------------|--|
| North<br>Lebanon    | 45                              | 21                               | 18                          | 6                                 | 5                            | 7  |
| Mount<br>Lebanon    | 98                              | 36                               | 35                          | 8                                 | 1                            | 1  |
| Beirut &<br>Suburbs | 60                              | 30                               | 28                          | 7                                 | 4                            | 2  |
| South<br>Lebanon    | 29                              | 5                                | 3                           | 1                                 | -                            | -  |
| Bekaa               | 19                              | 3                                | 3                           | -                                 | -                            | -  |

Source: UNICEF 1977

### 3\* - Prevention VS Control

Every one agrees that prevention of diseases is much more beneficial and efficient than its treatment. Prevention has also an additional advantage that it is much cheaper and much more economical in terms of Manpower and money use. Also one has to keep in mind that the outcome after treatment might not be satisfactory and might end up with handicapped people and this will increase the burden on the society.

\* As far as the environment is concerned national programs for the promotion of environmental health should be developed and these should not only be restricted to the disposal of garbage and refuse but should include also the sanitary control and surveillance of the production, processing, packaging, distribution and serving of milk, milk products, meats, fish, shellfish and other foods; the control and surveillance of certain drugs, cosmetics and chemicals; the elimination of insect and rodent vectors of disease; the surveillance of the atmosphere to prevent pollution. Considering the dust, smoke and especially bacterial contamination, the surveillance of domestic water supply and the prevention of their pollution by man, animals and industries, the surveillance of the potable water in terms of the degrees of chlorination and fluoridation, the development of safe and satisfactory disposal of human and solid wastes, the supervision of recreational areas,

the studies of accidents and accident prevention, the promotion of occupational health, the surveillance of the amount of radiation and development of policies regarding its transportation and disposal etc....

\* The epidemiological surveillance system should also be developed to be able to eradicate and reduce the incidence of many diseases. Notifications of occurrence of diseases are essential especially those which are not subject to international Health regulations.

\* Health laboratory technology should be developed.

The central Public Health Laboratory although well functioning is concentrating its activities on clinical pathology therefore, it is more of curative than of public health nature.

\* Immunization should be carried routinely for certain diseases and should cover all the population.

However, the expanded immunization programs need to be connected with the epidemiological surveillance because of the evaluation of these programs very essential at all levels of implementation. Notifications of cases occurring before, during and after the implementation of the Immunization program assume the value of Parameters for evaluation.

Therefore the notification mechanism should be established in a systematic and rational way.

D) Medical and Paramedical Education and Training:

1. Medical Education:

a) Education and facilities

In Lebanon, we have two private schools of Medicine:

1. School of Medicine - American University of Beirut.
2. Faculte de Medecine - Universite St Joseph.

The first school's system is American oriented and the second is French.

Until recently these two schools functioned completely independently one of the other without coordination or common planning or shareness of the already existing facilities of the country.

The duration of studies at A.U.B. is seven years divided in three stages:

a) Two years of premedical studies, governed by competition among the students because the large number of students at the beginning of the premedical years will end up by 50-60 selected students on the basis of their grades.

A number of these students is being selected also after the completion of the bachelor of science in Biology or chemistry courses.



b) Four years of medical studies combined with practical training mostly done in the American University hospital.

c) One year of internship during which the medical student is allowed to take some responsibilities under the direct supervision of his superiors.

The duration of studies in the French faculty is also seven years. The fifty accepted students are selected after a difficult exam or: "concours" before starting their first year of studies.

The French faculty years of education are directed into three stages nearly similar to the medical studies stages at A.U.B.

The training of the French medical student is mostly done in the hospitals of the capital and the suburbs:

Hotel Dieu Hospital  
 Rizk Hospital  
 St. Georges Hospital  
 Lebanese Hospital  
 St. Joseph Hospital  
 Baabda Governmental Hospital  
 Quarantine Governmental Hospital

There is no doubt that these two schools of Medicine maintain high standards of medical education being accredited by developed western countries but these standards need not always be relevant to the local needs of our country.



to the Council of Development and Reconstruction by the Saint Joseph Faculty of Medicine, the figures of the registered doctors at the Ministry of Public Health between the years 1971-1975 are described as follows:

The total number of registered doctors during that period of time is 729 doctors of which only 281 doctors have been trained in Lebanon or 38.5% (192 at the Faculte de Medecine universite St. Joseph and 89 at the American University of Beirut.

The other 61.5% of the registered doctors are graduated as follows:

- \* 32% from Western European countries (24% from France)
- \* 15% from Middle Eastern countries (11.5% from Egypt)
- \* 13% from countries of Eastern Europe (10.3% in U.R.S.S.)
- \* 1% from various countries such as Australia - India - Latin America.

In 1977, among the 123 registered doctors at the ministry, 39 graduated from Lebanon. In other words 31.7% only graduated from Lebanon.

- \* 33.3% from Western European countries
- \* 25% from France
- \* 27.6% graduated from Eastern Europe

Many of the students are now seeking their medical education in the so called "Second-Rank" schools because

acceptance at the "First-Rank" or high level schools in the United States, France, and England is becoming extremely difficult.

In order for a doctor to practice officially in the country he needs the Lebanese Colloquium which cannot be very reliable because it cannot indicate the quality of education and training of seven years of study.

### C) Brain Drain

Unfortunately many of the Lebanese students studying abroad will not come back and also many of the very good doctors have left the country or are planning to leave.

This situation is usually due to the following factors:

1. The unstable political situation of Lebanon.
2. The high salaries outside the country especially in the States and in the Arab countries.
3. The impossibility locally to compete with these countries.
4. The availability of continuing education and research in the developed countries.

It is worthwhile to mention here the maldistribution problem which creates an urban versus rural state of imbalance and this problem was discussed earlier in this paper.

The problem of maldistribution of medical and para-medical personnel is more acute than the whole number of



## 2\* Paramedical Education

The whole country relies on one school of Public Health, one school of Pharmacy, one school of Dentistry, two schools of Nursing which are of university levels, one school of Physical Therapy, one school of radiography, two schools of Laboratory Technicians.

The enrollment of students in these schools does not answer the country demand and actual need for the paramedical personnel.

The role of the auxiliary medical person especially in a country like Lebanon, should not only be emphasized but also over emphasized and this is to be able to ensure adequate coverage at all levels. The bulk of the work ought to be done by these people, in other words these people should be put in the front of the picture and should carry the primary work, ensure proper referrals to the more specialized persons. This is the basis of implementation of primary health care.

It is worthwhile to notice here that Lebanon is not able to keep its actual paramedicals because some of the countries especially the Arab countries are giving our people 3 to 4 times what they earn in Lebanon. This has led to a great Nursing drain which has reached its peak during the civil war in Lebanon, this means also that: the culminating point is still maintained!...

### III. Major Constraints Limiting Health Development

1. Shifts in priorities because of lack of planning. If the needs of a country are not assessed, no priorities can be set and since the planning cannot be met all at once therefore we can expect sometimes to start with the least important in other words: to shift our priority needs.

2. High Cost of Services: This is due to the high cost of living and this problem is acute in our country because of the scarce resources.

3. The Maldistribution Problem: This has been discussed earlier in this paper but here the health insurances coverages can justify this problem of equity, if Health Insurances are more controlled and betterly planned by our government.

4. The Inadequacy of Coverage in Relation to the Needs: This has to do with the supply-demand of the country which becomes more and more inbalanced because the first one is decreasing and the second is increasing exponentially and is more aggravated by the unstable political situation of the country.

5. Problem of Amenability: Large proportion of the population lacks the possibility of contact with the health services.

6. Lack of Utilization of Governmental Services: Many doubts are expressed about the intrinsic benefits and the value of preventive, curative and restorative interventions done at the governmental level.





the taboo on abortion.

Family planning newly started in Lebanon but needs to be more supported by the government and illegal abortions are carried among some practitioners and some birth attendants.

The increase of the population has also its consequences on the medical resources for example the ratio of health manpower will drop.

10. Major Statistical Information Gaps: Lebanon is one of the three countries of the world which do not have a census.

\* How can one make any planning for his consumers if he does not know the actual number of his target population?

\* How can one plan for disease control if he does not know the actual incidence and prevalence of some diseases?

\* How can one prepare a long range developmental plan if he cannot obtain the necessary data?

Information about the perceived health needs of populations is an essential requirement for the final stages of decision-making.

Although these stages are basically political in nature, the decisions should be guided by evidence and logic meaning, the basic statistical information.

The irony of our age is to know that in the states, the application of electronic data processing in this field has started especially in determining base-line data which is the basis for accurate and rapid health programs and to realize that in Lebanon this department does not exist yet.

#### IV. Recommendations

If we adopt the definition of the World Health Organization on health which states the following:

"Health is a state of complete physical mental and social well being and not merely the absence of disease or infirmity"

And because of its position of primary responsibility for community health matters, the organization and function of the official health body deserves special consideration.

Theoretically the Ministry of Health should be involved in a wide variety of services and activities.

Therefore we need to:

1\* Reorganize the Ministry of Health on the Central and Provincial levels with the new active advisory body.

#### 2\* Make the Local Health Departments Functional

The basic function of the local health departments should include at least the followings:

1. Vital Statistics
2. Environmental Health
3. Maternal & child health including family planning
4. Communicable disease control
5. Chronic disease control
6. Mental health including addictive disease programs especially after the civil war.
7. Promotion of adult health

8. Laboratory services

9. Health education

- 3\* Develop control and supervision abilities at the level of the ministry.
- 4\* Improve the coverage and the content of health services
- 5\* Improve the process of health planning. Careful process of planning should be stated based upon the needs of the population and integrated at each level with the social and political values.

6\* Start the statistical information system to be able to have necessary data for planning and evaluation of health services.

7\* Terminate the services of dubious value.

8\* Coordination and participation among all the health providers should be started because these are supposed to share the same concern and responsibility for certain special aspects of the well being of the community.

9\* Decentralization should start with proper planning, to be able to ensure proper coverage.

10\* The primary health centers should be developed and proper hospital planning to ensure proper referrals and continuity of care.

11\* Supply-Demand and cost analysis should be started and developed.

12\* Since medical care is difficult to be reached by all the population, setting priorities in any planning is very essential especially in a developing country like Lebanon because of the scarce resources.

For example Community Health Programs have to put a special emphasis on the so called "population at risk" to be able to protect the expectant mothers and the young children.

Since the mothers and children constitute nearly 60%\* of the Lebanese population an emphasis on maternal and child health centers is required.

13\* There should be a direct control of the Ministry of Health on the curriculum of the medical and paramedical schools in Lebanon with specific criteria for accreditation based on the basic needs of the country.

14\* The Ministry should support these schools in providing adequate funds for teaching the students, develop new programs for training, continuing education and recyclage for the auxiliary personnel and to develop research in the medical and scientific fields related to health.

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\*Source: Dr. Harfouche, pamphlet on the distribution of health services in Lebanon, 1977.



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