

The author's own patients

Relying on the experimentations on the passive transfer of tuberculin allergy by cells (1947–1951), the author's own work till 1967 centred on tests on animals in the cytochemical and immunological fields. Up to that year, about 60 children were treated in hospital or outdoor for maldevelopment, for which also cell-therapeutic measures were used.

A commission from the «Scientific Advisory Board to the Federal Chamber of Physicians» in 1969 prescribed to include a prospective study on 200 disabled children into the tests and long-term treatments so as to judge objectively of the effect of cell therapy on non-selected patients.

The use of cell therapy in addition to the customary therapeutic methods augmented rapidly the inquiries and requests for treatments beyond expectation. The prospective study was finished as soon as in 1972.

By April 1st, 1975, the recorded patients included:

- 976 cases of mongolism syndrome;
- 2271 cases of cerebral maldevelopment, among them in succession of their frequency:
 - infantile cerebral paresis (dyskinetic forms, hypertonic, spastic, mixed forms, cerebellar and cerebrosplinal ataxia, hypotonic forms)
 - microcephalia;
 - postencephalic aspects;

- impaired learning capacity and weakened concentration on an organic base;
- degenerative diseases of the central nervous system.

- 140 cases of innate dysplasia;
- mucopolysaccharidoses;
- muscular dystrophias, innate defects of metabolism;
- osteogenesis imperfecta;
- posttraumatic conditions of the central nervous system;
- appalic syndromes;
- progeria;
- sickle-cell anaemia, etc.

Since 1970, 1200–1800 babies and children with hereditary physical impairments and cerebral paresis have been cared for per year; implantations by injection were applied in 70–80% of the cases. A survey by groups of diseases for 1978 and the first 7 months of 1980, the latter also detailed in a geographical breakdown, is given in tab. 56, 57, 58 the number and geographical provenience of 7 months in 1982 in tab. 59. Since 1975, the numbers of requests for treatments from foreign countries in Europe and overseas have been growing so that patients of more than 54 countries have been treated so far. The diagnosis and the multidimensional therapy needs time and team-organization so that the capacity is limited. As most of the impairments require treatments of years, the possibility of admitting new treatments has been restricted during the last

years, for the capacity was more than exhausted.

By the middle of 1980 (July 31st, 1980), the number of patients recorded

since 1969 came to 4219 cases. The total number of documented cases on July 31st 1982 was 4509. With an average of 7 series of implantations per patient and

Tab. 56:

Mental and multiple disabilities

Patients in 1978

| | cases |
|---------------------------------------|-------|
| 1978 | 1422 |
| Down's syndrome | 944 |
| cerebral paresis | 294 |
| hypertonus | 64 |
| hypotonous | 16 |
| dyskinetic | 72 |
| atactic | 11 |
| mixed forms | 131 |
| partial disabilities | 43 |
| cerebral defects + fits | 34 |
| fits | 12 |
| heredodegenerative diseases | 23 |
| apallic syndrome | 9 |
| deafness | 4 |
| syndromes | 41 |
| skeletal dysplasia | 18 |
| Achondroplasia | 8 |
| Osteogenesis imp. | 3 |
| Arthromyodysplasia | 4 |
| Enchondral Dysplasia | 3 |

Tab. 57: Diseases

treated in the first 7 months in 1980, arranged by Diagnosis-groups

| | cases |
|--|------------|
| Down's syndrome | 591 |
| Infantile Cerebralparesis | |
| disturbed tonics | 106 |
| dyskinetic forms | 54 |
| cerebral attacks | 11 |
| metabolic disorders | 21 |
| skeletal dysplasia | 20 |
| syndromes and individual cases | 48 |
| | <u>851</u> |

Tab. 58:

849 cases of mental and multiple disabilities

in the first 7 months of 1980, arranged by geographic origin.

Germany

| postal code number | cases |
|--------------------|------------|
| 1 | 11 |
| 2 | 16 |
| 3 | 25 |
| 4 | 92 |
| 5 | 89 |
| 6 | 185 |
| 7 | 59 |
| 8 | 131 |
| total | <u>608</u> |

foreign countries

| | cases |
|------------------------|------------|
| Switzerland | 8 |
| Austria | 6 |
| France | 1 |
| Luxembourg | 2 |
| Belgium | 4 |
| England | 1 |
| Norway | 1 |
| Holland | 3 |
| Spain | 3 |
| Portugal | 2 |
| Italy | 7 |
| Greece | 4 |
| Israel | 4 |
| Iran | 2 |
| India | 2 |
| Australia | 46 |
| USA | 25 |
| Canada | 52 |
| Mexico | 60 |
| Venezuela | 1 |
| Brazil | 4 |
| South-Africa | 2 |
| Jugoslavia | 1 |
| | <u>241</u> |

Tab. 59: Geographical origin of 1.700 in 1982 treated handicapped children and adults

| | | | |
|----------------------------|------------|---------------------------------|--------------|
| America | 322 | EUROPE | 1.153 |
| Canada | 117 | Finnia | 10 |
| USA | 176 | Sweden | 1 |
| Hawai | 2 | Norge | 1 |
| Mexico | 14 | Netherland | 2 |
| Venezuela | 3 | Belgia | 18 |
| Guatemala | 1 | Luxembourg | 11 |
| Brazil | 2 | France | 2 |
| Chile | 6 | Spain | 11 |
| Peru | 1 | Great Britain | 13 |
| | | Ireland | 5 |
| ASIA | 46 | Austria | 20 |
| Hongkong | 1 | Switzerland | 15 |
| India | 1 | Italy | 10 |
| Israel | 43 | Greece | 7 |
| Turkey | 1 | Yugoslavia | 2 |
| | | Hungary | 1 |
| | | Germany, F. R. | 1.024 |
| AFRICA | 2 | Post-Code 1 | 18 |
| South-Africa | 2 | 2 | 30 |
| | | 3 | 48 |
| | | 4 | 174 |
| | | 5 | 125 |
| AUSTRALIA | 174 | 6 | 305 |
| | | 7 | 120 |
| | | 8 | 204 |
| POLYNESIA | 3 | | |

2,2 implantations per series taken as a base, more than 70 000 injection implantations were performed in the last 13 years since methodical records of these cases were adopted. These clinical cases and the experimental work preceding the clinical use of the method constitute the fundament of this book.

Till the final correctures of this book (31. 1. 1983) the documented number of outpatients was 4.616, included 1.814

Down's syndromes. Additionally about 200 patients treated only by hospital care and 400 patients in their different homelands. More and more treatment requirements came from overseas-countries. Table 59 gives an impression on the geographical origin of the patient in 1982. Several thousands of letters with recommendations for treatment and care must be answered in the last years.