The Tubercular Constitution as a Common Cause of Chronic Diseases and its Treatment with Naturopathic „Regulation Therapy„ by Dr. Dr. Peter Schneider Germany
Historical background of the tubercular constitution

Almost 200 years ago, Samuel Hahnemann (Hahnemann, 1810, 1828) tried to classify chronic disease into certain “miasms” (disease energies). He attributed the basic toxic load to Psora (in Greek “the itch”), to Syphilis and to Sycosis (“fig-wart disease”). This work dates from the latter part of his life.

Even in ancient cultures it was recognised that all the chronic diseases that afflict mankind form a unified whole. Escaping from his opponents to Paris at the age of 80, Hahnemann tried to secure this knowledge in the 6th edition of his “Organon of the Rational Art of Healing” by adding a number of notes to the 5th edition. Due to the fierce opposition of some medical doctors to the notion of Psora, the 6th edition was only published in 1921. In that way the fanatically contested idea of Psora, which Hahnemann called the “thousand headed monster of disease” and which was dismissed as a senile fantasy of his, was handed down in its original form.

Among Hahnemann’s numerous followers John H. Allen deserves mention, for his intensive work on the theory of the miasms. (Allen, 1996). Hahnemann and his pupils had already observed that suppressive treatment of disease would intensify and increase the miasmatic disease energies. It was further realised that, when inherited, Psora and Syphilis may completely merge together. The tubercular constitution is a “mixed” miasm and a result of this merging together. Allen calls it “absolutely the strongest of all disease states or conditions”. It can be inherited or acquired and is also called “pseudo-psora”.

As the tubercular constitution does not signify a case of clinical tuberculosis, other terms such as “para-tuberculosis”, “tuberculinic” or “tubercular miasm” were introduced later. However, the term “para-tuberculosis” is nowadays used internationally, in a different sense, to denote an illness caused by Mycobacterium para-tuberculosis (Johne’s disease in cattle).

Between 55 and 100 years ago clinical tuberculosis was widespread, and intensive research on it was carried out. In Berlin, Germany, Robert Koch pioneered the diagnosis and treatment (Tuberculinum Koch) of tuberculosis. His assistant Carl Spengler carried on his work and based his new methods of diagnosis and treatment of chronic illness on Koch’s findings (Spengler, 1911). Above all, Spengler’s work was concerned with the different morphology of strains of mycobacteria (“dualism”) and with the close relationship between tubercle bacteria and the pathogenic agent of syphilis, whose bacterial form is found in mixed cultures from tuberculosis patients. Spengler showed that the presence of the syphilis pathogen can be demonstrated within the cells of an organism in an ultra-small and primitive variety - even when an infection by this pathogen had never occurred during the individual’s life-time.

It was assumed that the general spread of “inherited syphilis” stems from the beginning of the 16th century, when a whole population was infected with a syphilis pandemic “imported” from America. Anyone who did not die of this infectious disease at that time, retained a residual toxicity in the body that was passed on through generations and, according to Spengler, would later show up as an “inherited virus”.

Spengler developed the so called “Spengler colloids” which were named after him and are antigens from different bacteria and antitoxins produced from the blood of highly immunised rabbits. With the help of these substances it is possible to diagnose various chronic diseases such as the “inherited toxins” of tuberculosis and syphilis (see POLYSANS, produced by the SANUM-KEHLBECK Co).

In a study on trans-placental carcinogenesis in mice, an extra-chromosomally transmitted susceptibility to tumour growth could be observed (Schneider,
1981). In the F2-generation only those animals showed an increased occurrence of tumours, whose parent of the same sex had been transplacentally exposed to the chemical carcinogen (DMBA) and had been crossed with a non-treated animal. This dependency on the sex and transplacental exposure regarding tumour formation permits the assumption that extra-chromosomal influences are at work.

By the end of the last century the French chemist and pharmacist Antoine Béchamp had claimed (Béchamp, 1912), that certain micro-organisms could occur in various forms and stages of development. Under exactly defined conditions they would occur, ranging from the lowest forms to the highly developed stages of bacteria and fungi. He found that all animal and plant cells contain minute granules (“microzymas”), which do not perish after the death of an organism, are responsible for fermentation, and from which other micro-organisms could also develop. These microzymas would be present in every living species, in humans, animals and plants; they were eternal and indestructible and represented a bridge between non-living and living matter. Under certain pathogenic influences these microzymas could develop into bacteria with putrefacient and fermenting properties. This meant that disease had its origin mainly within the body.

Claude Bernard, a French physiologist and a contemporary of Béchamp, confirmed his results and found out in addition that not only the micro-organisms themselves are harmful, but primarily the “soil” in which they multiply.

Another contemporary of theirs at the end of the nineteenth century was Louis Pasteur. He claimed that the explanations of Béchamp and Bernard were arrant nonsense. He contested these views in accord with the botanist Cohn (Breslau) and Robert Koch’s theory of “monomorphism” (meaning that each type of bacteria is only allowed one mode of growth and manifestation). His opinion prevailed among the experts of his time and still does so even in modern times. Nevertheless Pasteur said on his death bed: “Bernard is right; the soil is everything, the microbe nothing”.

Pasteur’s private notes about his scientific research were kept secret from the general scientific community at his request. Not until 1975 were 10,000 pages of his laboratory protocols handed over to the historian G. L. Geison at Princeton University, who spent almost 20 years evaluating them. In 1993 Geison handed over his results to the American Association for the Advancement of Science in Boston. In 1997 a book containing Geison’s findings was published. (Geison, 1997). This book shows Pasteur’s merits, but does not cover up the fact that he manipulated some of his experimental results and contravened medical, scientific and ethical rules.

Fontes (Fontes, 1910) who had based his research on Spengler’s results, delivered important proof of the “pleomorphism” of bacteria. He was the first to provide proof of the infectiousness of bacteria-free filtrates of TBC-bacterial cultures. As a result of his research Fontes assumed that not only the predisposition to tuberculosis could be inherited, but also the virus in its “filterable”, granular form. He further thought that the latter could remain latent (“latent tuberculosis”) or could develop slowly into the classic bacterial type.

G. Enderlein (zoologist and microbiologist, curator of the zoological museum of Berlin University, and microbiologist for the German army in Stettin during World War I) reported in 1916 for the “Friends of Natural Research”, Berlin, about his time as a bacteriologist in the army and his research results regarding the development of bacteria. Owing to the prevailing conditions resulting from the war, his monograph on this subject was only published in 1925 (Enderlein, 1925). As he was describing morphological facts that had previously been unknown to microbiology, he developed a whole new terminology; however, this resulted in the procedures he described being difficult to understand.

According to Enderlein, microbes pass through a cycle which is specific to their species. The term “cyclogeny” describes the changes and the journey of pathogenic and non-pathogenic
micro-organisms through all phases (“valencies”). The cycle starts below the limits of microscopic visibility, the viral sphere, then on via forms of higher valency like cocci and bacilli, to culminate in the fungal phases. The bacterial nucleus (“mych”) has a special significance. Although this was already known before Enderlein, its function had not been interpreted accurately. According to the “basic Anatartic Law” formulated by Enderlein, the increase in valency of the microbe depends on the “milieu” that is present in blood and tissues, which is mainly characterised by its pH value. Bacteria can either multiply asexually by division or branching (“auxanogeny”) or sexually after prior fusion of cell nuclei (“probaenogeny”). Sexual multiplication is essential for movement to a higher or lower phase. 40 years after Enderlein’s discovery, the Nobel prize was awarded to Lederberg in 1958 for discovery of “polymorphy” and sexual multiplication of bacteria by the fusion of cell nuclei (Lederberg, 1958).

Apart from naming the various phases in the development of micro-organisms, Enderlein also succeeded in proving the existence of the most important symbiont (“endobiont”) in warm-blooded creatures. He discovered _Mucor racemosus Fresen(ius) 1870_, in all its developmental stages from viral to fungal. In the low valency stages, the endobiont lives as a physiological regulator; in the higher valency stages it will develop pathogenic characteristics, depending on the environment (or milieu) that surrounds it. Changes in the environment which are followed by an endobiosis occur in all chronic illnesses. The endobiosis caused by _Mucor racemosus_ in a higher-valency form is characterised by congestive symptoms (e.g. diseases of the blood and venous system, wounds, hearing loss and neurodermatitis).

Enderlein also found that the pathogenic higher-valency phases of the endobiont could be reconverted into a non-pathogenic phase by introducing low-valency forms while simultaneously treating the milieu (“isopathic therapy”). These processes can be observed with the help of dark-field microscopy of vital blood. (Schwerdtle and Arnoul, 1993; Bleker, 1997).

According to Enderlein, viruses are cell-free primitive forms (“filum”) of the endobiont, from which bacteria may be grown. (For example: the tobacco mosaic virus, from which it was possible to breed bacteria after several months); bacteriophages however are “sperms” of the microbes (Enderlein, 1954).

The causative agent of the second selectively pathogenic endobiosis which, in contrast to the Mucor symbiosis, is non-physiological, was identified by Enderlein as the mould _Aspergillus niger van Tieghem_. In its polymorph and phase-dependent pathology this is believed to be a causative agent of cancer (Dechow, 1933) and tuberculosis. Vaudremer (1921) and Tissot (1925) had already found a genetic connection between the tubercle bacillus and fungi of the species _Aspergillus_ (according to Enderlein, 1949).

The cyclode of _Aspergillus niger_, according to Enderlein, is a scission from the cyclode of _Mucor racemosus_ (Figure 1).
According to Enderlein, the low valency phases of *Mucor racemosus* and *Aspergillus niger* are transmitted via the placenta.

The higher and high valency phases of *Aspergillus* are closely connected with calcium metabolism and cell respiration (citric acid cycle) and they cause chronic tubercular diseases in warm blooded creatures “to the right of the biological incision” (Reckeweg, table 1). Examples are chronically relapsing susceptibility to infections, tuberculosis, paratuberculosis, asthma, arthrosis, ankyllosing spondylitis, cysts, ovarian and prostate diseases, as well as cancer. Among the tubercular symptoms degenerative diseases such as auto-immune disorders may also be found.

The particular significance of high-valency fungal forms in the development of neoplastic disorders was confirmed by Privy Councillor Prof. Dr. F. Gerlach, Director of the Bundesanstalt für Tierseuchenbekämpfung (National Institute for the control of epidemics among animals) in Mödling near Vienna, following detailed research. Gerlach was able to culture fungi from cancerous material of human or animal origin (including chemically induced tumours from animal testing) at every attempt (Gerlach, 1948). Later he also found that mycoplasma play an important role in carcinogenesis. From this it may be assumed that mycoplasma which, according to Mattman are barely distinguishable from CWD-types (see below), are higher valency forms of the *Aspergillus*-cyclode.

Tubercular diseases were given various names by Enderlein’s contemporaries, without acknowledging any connection to the bacterial cycle. Scrophula, lymphatit, camouflaged tuberculosis (Patromikolas), masked tuberculosis (Willy Bircher), certain forms of rheumatic disease (Poncet), latentia, tubercular toxicosis, paratuberculosis. “Much’s Granules and Spengler’s splinters” also belong in this category.

The “Basit”, “Linit”, and “Ascit” stages of *Aspergillus* are the short and long bacilli of *Sclerothrix tuberculosis* Koch 1882, acidoresistant and non-acidoresistant, the cultivation of which was described by Enderlein in all its phases (Enderlein, 1959).

After Enderlein, Harmsen also described forms of *Mycobacterium tuberculosis* which deviated from the slender bacillary form: branched varieties, granula, acidoresistant and non-acidoresistant forms, mycelium formation, nuclear equivalents and vacuole formation (Harmsen, 1952).

Just as the low-valency phases of *Mucor racemosus* are especially suited to the treatment of endobiosis, so tubercular diseases can be treated very effectively isopathically with low valency phases of *Aspergillus niger*. According to Enderlein the *Aspergillus*-cyclode is an off-shoot from the *Mucor*-cyclode and therefore the medicine is also prescribed in a combination from both cyclodes.

An extensive survey of the numerous studies on polymorphic “symbionts”, particularly in German speaking countries, was carried out by Windstorser (Windstorser, 1995).

In English-speaking countries too, intensive research on the pathogenicity of polymorphic forms of microbes has been carried out during the last 40 years. Probably because of the language barrier, the results of earlier research remained unnoticed. Only in recent times has an effort been made by Canadian research groups to pool this knowledge (First International Symposium on Pleomorphic Microbes in Health and Disease, 18th-19th June 1999, Montreal, Canada).

The investigations to date into the properties and pathogenicity of the so called “Cell Wall Deficient Forms” (CWD) was recently summarized by Lida H. Mattman, Emeritus Professor of Microbiology at Wayne State University, Detroit, Michigan (Mattman, 1993).

“CWD” is used as the umbrella term for synonyms like “L-forms”, “L-phases” or “spheroplasts” that can be found in the literature. CWD also covers the previously used term “protoplast”. CWD have special characteristics that are not present...
in classical micro-organisms:
- Destruction of many forms during fixation with heat;
- they usually require soft agar, grow under the surface and need a mature, autoclaved culture medium;
- they typically grow within erythrocytes;
- they are often serophilic;
- most types grow best in a hypertonic and alkaline environment (pH 7.8 – 8.0);
- CWD are able to revert to classical bacterial forms.

It is only possible to culture CWD under special conditions. The culture medium has to be stabilised with an extract of heart muscle, 15% inactivated horse serum and 3.5% sodium chloride.

The following are some examples of the intra-erythrocytal growth of CWD:

**Normal and physiological:**
Staphylococci, *Bacillus licheniformis* (in approx. 30% of all healthy humans).

Sarcoidoses:
Mycobacteria

Kaposi’s sarcoma:
Fungi

Nephropathy:
Lysis of erythrocytes from 489 patients: the same species as in urinary infections

Idiopathic hematuria:

Bacteria similar to streptococci; in contrast to this, children with nephrotic syndrome exhibited an elevated staphylococcal growth-rate

Systemic lupus erythematosus:
Bacteria connected with nephrotic diseases

Crohn’s disease:
*Pseudomonas, Mycobacteria*

Auto-immune diseases:
CWD act as haptens and stimulate the formation of haemolytic antibodies (Example: paroxysmal hemoglobinuria due to cold in syphilis)

The formation of pathogenic CWD from bacteria can be induced by **suppressive treatment** in-vitro their formation is possible through antibiotics, e.g.:

Penicillins:
Inhibition of murein synthesis:
*Brucella, Clostridia, E. coli, Haemophilus influenzae, Listeria monocytogenes, Proteus mirabilis, Salmonella gallinarum, S. typhi, Vibrio cholerae, Vitreoscilla.*

Sulphonamides:
*Staph. aureus*

Kanamycin, Tobramycin, Chloramphenicol
Inhibition of protein synthesis, resulting in surface changes in bacteria:
*E. coli, Klebsiella pneumoniae, Bacillus megaterium, B. polymyxa, Serratia macescens, Sarcina lutea, Staphylococcus aureus, salmonellæ, shigellæ, Proteus.*

Aztoreonam (Monobactam):
surface changes in *E. coli*

Erythromycin:
*Staphylococcus aureus* (and at least 40 other macrolid-antibiotics such as Leucomycin, Oleandomycin, Spiramycin, Tylosin)

Tetracyclines:
*Staph. aureus, E. coli, K. pneumoniae, B. megaterium, B. polymyxa, Serratia marcescens, Serratia lutea, Salmonellæ, Shigellæ, Proteus.*

As an example of an in vivo induction of CWD by antibiotics Mattman names antibiotic treatment of mastitis in cows caused by *Staphylococcus aureus*:

- apart from the classical bacterial forms, the CWD of *Streptococcus agalactiae, Staphylococcus aureus and Corynebacterium pyogenes* were also demonstrated as causative of bovine mastitis (Bergmann and Böckel, 1989).

- following treatment of mastitis caused by *Staphylococcus aureus* with Cloxacillin the excretion of classical forms of cocci ceased within a few days, whereas CWD forms of *Staph. aureus* continued to contaminate the milk for more then 30 days (Sears, P.M. et al., 1987).

Nowadays the induction of
pathogenic CWD in-vivo by using antibiotics is of great importance as antibiotic-resistant micro-organisms are widespread and can no longer necessarily be destroyed (Beyer, 1999). On the other hand CWD commonly escape from the immune system due to their lack of a cell wall and continue to act as haptens. To support the organism in the elimination of cell wall deficient microbial forms, the SANUM-therapy which includes SANUKEHL preparations should be the treatment of choice. (Schneider, 1999a; Werthmann, 1999). As an example, the well proven treatment of mycoplasma and chlamydia infections may be cited; according to Enderlein these belong to the cyclode of Aspergillus:

- 1-2 times weekly a mixed injection of NIGERSAN 5X and CITROKEHL
- daily SANUKEHL Pseu 6X in the evening: 4 drops to be taken internally and 4 drops to be applied topically.

On the basis of clinical research to date it can reliably be asserted that:

- Micro-organisms can be of a polymorphic phenotype, from the smallest viral structures to bacteria and fungi.
- CWD of micro-organisms (staphylococci and bacilli) appear physiologically in the erythrocytes of healthy humans.
- Cell wall deficient forms can occur in vitro and in vivo under certain environmental or “milieu” conditions and can be pathogenic in vivo.
- CWD pathogenic forms can live as parasites within erythrocytes and can be observed in vital blood under a dark-field microscope.
- Suppressive treatment of disease, especially with antibiotics, can induce the development of CWD.
- Cell wall deficient forms of mycobacteria are the real carriers of a tubercular constitution.
- CWD are able to revert to classical forms of bacteria. According to Enderlein they can move through their cyclodes in both directions.
- Pathogenic forms of micro-organisms can be rendered harmless when transformed into their non-pathogenic regulatory forms.

Homotoxicology according to Reckeweg

According to Reckeweg (Reckeweg 1975, 1980) the body’s “major defence system” consists of 5 different mechanisms (reticulo-endothelium, anterior pituitary-NNR-mechanism, nerve reflexes, liver detoxification, detoxifying function of connective tissues) by which the body defends itself against toxins (“homotoxins”), which can otherwise bring about illness. Either the body wins in this fight and gets damaged in varying degrees by the homotoxins or it succumbs to the toxic effects.

These views of Reckeweg’s are an extension of Selye’s research on the Adaptation Syndrome (Selye, 1953).

The damage caused by the homotoxins manifests in the form of an impairment or blockage of the intracellular enzyme systems. In Reckeweg’s system, the different grades of toxic effects are expressed as six different phases. During the first three phases (excretion, reaction, deposition) the excretion of toxins is successful, whereas during the three cellular phases that lie beyond the “biological incision” (impregnation, degeneration, neoplasm) the cells are increasingly damaged and become more or less non-functional. The three cellular phases often result from the suppression of acute illnesses. Numerous chemically defined substances such as antibiotics, anti-rheumatic drugs, analgesics, bacteriostatics among others, according to Reckeweg often have an irreversible blocking effect on the intracellular fermentation systems and bring the cellular phases four to six into play (“progressive vicariation”). These phases correspond to the terms “psora” and “sycosis” which were originated by Hahnemann, or with the “tubercular constitution”. According to Reckeweg’s six-phase scheme (table 1), clinical tuberculosis...
### Table 1: The Homotoxicoses (6-phases table, after Reckeweg)

<table>
<thead>
<tr>
<th>Germ layer / tissue</th>
<th>Humoral phases - diseases of disposition</th>
<th>Cellular (tubercular) phases - Diseases of constitution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Excretion</td>
<td>Reaction</td>
</tr>
<tr>
<td>Ectoderm</td>
<td>Saliva</td>
<td>Dermatitis</td>
</tr>
<tr>
<td></td>
<td>Nasal catarrh</td>
<td>Rhinitis</td>
</tr>
<tr>
<td></td>
<td>Sweat</td>
<td>Furuncle</td>
</tr>
<tr>
<td></td>
<td>Tears</td>
<td>Stomatitis, thrush</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Herpes zost., Neuralgia</td>
</tr>
<tr>
<td>Endoderm</td>
<td>Intestinal juice</td>
<td>Colitis syndrome</td>
</tr>
<tr>
<td></td>
<td>Bile</td>
<td>Enteritis</td>
</tr>
<tr>
<td></td>
<td>Pancreatic juice</td>
<td>Parotitis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hepatitis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cholangitis</td>
</tr>
<tr>
<td>Mesenchym</td>
<td>Antibody production</td>
<td>Oedema</td>
</tr>
<tr>
<td></td>
<td>Vicarious bleedings</td>
<td>Abscess, Ucer</td>
</tr>
<tr>
<td></td>
<td>Menstruation</td>
<td>Angina</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Typhus</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Appendicitis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Polyarthritis</td>
</tr>
<tr>
<td>Meso derm</td>
<td>Lactic acid production</td>
<td>Cystitis</td>
</tr>
<tr>
<td></td>
<td>Discharge of serous membranes</td>
<td>Pyelitis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nephritis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prostatitis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Salpingitis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Muscular rheumatism</td>
</tr>
</tbody>
</table>

**Excretion principle, prognostic favourable**

**Condensation principle, prognosis doubtful**
only appears in the degeneration phase.

The following authentic case example will serve to clarify the term “progressive vicariation”. The patient is a young male whose medical history began in infancy as a “dysbiosis” with an acute, inflammatory, excretory reaction and developed over 16 years into a degenerative demyelination of the central nervous system:

<table>
<thead>
<tr>
<th>Age</th>
<th>Disease</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 months</td>
<td>Pre-toxicosis with Coli-Dyspepsia, diffuse peri-bronchitis, high fever</td>
<td>antibiotics i.v. and i.m., milk-based “health-food”, fluoride</td>
</tr>
<tr>
<td>4 months</td>
<td>Super-infected varicella, anal fissures, streptococcal sepsis, high fever</td>
<td>antibiotics, antipyretics, Vit.D3</td>
</tr>
<tr>
<td>5 months</td>
<td>Coli-dyspepsia, chickenpox, diarrhoea, vomiting</td>
<td>antibiotics, immunoglobulins, pectins, porridge with full-cream milk, fluoride, topical corticosteroids</td>
</tr>
<tr>
<td>1 year</td>
<td>superinfected intertriginous eczema, eczema of scalp, infection of lungs (mild), severe suppurative otitis ext., high fever</td>
<td>antibiotics, antifungals, dermal application of salicylic vaseline and oil; no improvement of symptoms</td>
</tr>
<tr>
<td>14 months</td>
<td>histiocytosis X, constipation</td>
<td>chemotherapy, prednisolone</td>
</tr>
<tr>
<td>2 years</td>
<td>histiocytosis X, recurrent temporal focus of infection</td>
<td>chemotherapy, corticoids</td>
</tr>
<tr>
<td>6 years</td>
<td>accident</td>
<td>tetanus vaccination</td>
</tr>
<tr>
<td>7 years</td>
<td>Loss of teeth after chemotherapy</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>14 years</td>
<td>Cerebellar ataxia, hydrocephalus int., anal fistula, kyphoscoliosis, dwarfism, anus preter, mental and motor retardation</td>
<td>valve implant owing to hydrocephalus</td>
</tr>
<tr>
<td>16 years</td>
<td>increasing muscular dystrophy, nystagnus, astigmatism, demyelination in pons and mesencephalon, strabismus, unable to walk after stereotactic biopsies, patient confined to a wheelchair</td>
<td>further attempts at corticoid treatment; aborted after onset of Cushing’s syndrome and aggravation of acne.</td>
</tr>
</tbody>
</table>
According to Reckeweg the aim of a biological therapy is to enhance detoxification and excretion via the major defence mechanism. The reactivation of the damaged or blocked enzyme systems by administering adequate co-factors such as vitamins, trace elements, intermediate citric acid cycle catalysts and quinones is of the utmost importance. A biological therapy also aims to transform the “dangerous” phases on the right side of the biological incision into less harmful phases (“regressive vicariation”). An example is the induction of inflammatory reactions in neoplasma phases.

Reckeweg concludes that all natural healing operates according to the principle of regressive vicariation. The individual phases of the pathogenesis are briefly re-experienced in the reverse order of their appearance, beginning with the most recent events. This means that during recovery apparently new illnesses seem to appear (e.g. appearance of acute herpes during the treatment of a degenerative disease). Under no circumstances must these symptoms be suppressed. In such cases relief can be obtained by intensifying the use of excretory measures, by giving a classical homoeopathic remedy that is indicated for a certain stage of illness, or by acupuncture.

Characterisation of the tubercular milieu

By “the milieu of the tissues” we mean the “cell milieu system”, whose properties have been described by Pischinger (Pischinger, 1990).

Changes in the milieu can be characterised on various levels, for instance by dark-field microscopy or on an electromagnetic level with the aid of Vincent’s system of Bio-electronics (BEV).

In the dark-field microscopy hemogram of native blood changes may be observed in the morphological structure of erythrocytes related to their position on the right side of the “biological incision”. The observations extend from changes in the shape of erythrocytes to forms similar to a “thorn apple” (see Figure 2; Schwerdtle and Arnoul, 1993; Bleker, 1997). These structures have been described, documented and named by Enderlein and they can easily be reproduced. For dark-field microscopy examination a special microscope is required.

Another possibility for the characterisation of the milieu is afforded by Vincent’s system of Bio-Electronics (BEV).

As was already known 100 years ago, the most important parameter for a milieu is the pH (Worlitschek, 1996). The pH represents the ion-potential for acidity and alkalinity and is the “magnetic factor” according to Vincent. The pH value is 7.40 - 7.45 in arterial blood, 7.35 - 7.40 in capillary blood, and in venous blood 7.30 - 7.35. An average blood pH of 7.2 is regarded...
as normal, but nowadays this is rarely attained. Based on regulatory reciprocal actions, the blood pH works in the reverse direction to that of the tissues, so that a blood pH of 7.5 is equivalent to a tissue pH of approx. 5.5. According to Enderlein the endobiont develops in the blood at a pH of 7.20 - 7.50.

Another important milieu parameter is the redox-potential. The significance of this parameter was discovered by the American doctor W.F. Koch (Koch, 1981). Koch was a physiologist and pathologist and from 1919 to 1949 he was director of the Koch Cancer Clinic in the USA. He introduced homeopathically prepared (6X or 9X) substances that contain carbonyl-groups such as glyoxals and quinones into cancer therapy and had to defend himself before American courts due to his innovative methods of treatment. As his results were brilliant, he was scarcely troubled by such accusations.

Koch assumed that pathogens such as viruses and antibiotics would be “anchored” in the metabolism as they reacted with amino-groups such as creatinine and formed polymers, which would primarily impair the function of the respiratory chain. He guessed that the hypoxia that was created in that way was the reason for the development of cancer and other illnesses. Therefore Koch developed homeopathic preparations with a high redox potential in order to overcome this hypoxia and to disperse the anchored pathogens.

Until now it has not been possible to verify the mechanism by which his preparations work, but Mäkinen and Mäkinen (Mäkinen and Mäkinen, 1982) were able to demonstrate within a biological system that the substance methylglyoxal has “photo-enhancing” properties at a wavelength of 300nm. Apart from Glyoxal, Methylglyoxal was the most important of the substances employed by Koch.

It has long been known that essential metabolic processes are dependent on emission of quanta of light. It used to be assumed that this was merely a side-effect of chemical processes, but the German physicist Popp, employing considerable technical resources, proved that photons are of the greatest importance for inter-cellular communication (Popp et al., 1992). The light emitted by living cells in the form of biophotons is very weak (low-level luminescence). However, within a healthy organism, it shows a very high degree of coherence, similar to a laser, and therefore has a high quality of resonance.

As early as the 1920’s, communication by means of light between the roots of two onions had been observed by Gurwitsch. In 1928 Reiter and Gabór of the Siemens research laboratory in Berlin showed that the radiation wavelength of this communication lies in the ultraviolet area of the spectrum at exactly 338nm. It was of particular significance that this radiation could be antagonised by weak light with a wavelength of exactly 300nm. This was exactly the same wavelength at which Mäkinen and Mäkinen had also found biological properties. Popp proved that, in neoplastic disease, the intensity of the photon emission is reduced. The same applies to its organisation (coherence). Cells from induced tumours of laboratory animals had largely lost their light contact, as compared with normal cells. On the basis of experience with medicines which are obviously able to influence photon emission, their properties also seem to be altered in other chronic diseases.

In the light of the photon research we may assume that the administration of Koch’s homeopathic remedies causes the cells to increase their emission of light and therefore contributes considerably to the restoration of the organism’s regulatory abilities. For the treatment of chronic illnesses a combination of Ubiquinone comp. (Heel) with CITROKEHL in a mixed injection has proved especially valuable. This combination not only stimulates photon emission, but also cellular respiration.

Apart from a modification of the redox potential to an “electrical factor rH2” \( (rH_2=2 \times pH + 30 \times E) \) the French hydrologist Vincent introduced the conductivity and its reciprocal value, the specific electrical resistance \( r \) [\( \Omega \)] as a third essential milieu parameter (Elmau, 1985). Like pH and rH2 these originally served to determine the quality of water, but it soon turned
out that these three measuring units are equally suited to the evaluation of biological substrates. Vincent expanded the evaluation of the milieu to include the simultaneous measurement of the parameters in blood, saliva and urine.

With the help of these three parameters it is possible to show four quadrants of the biological milieus for the blood (Figure3:)

The small box between the quadrants indicates the area of health.

**Quadrant 1: acidic – reduced**

favours the healthy living of higher organisms; it is the terrain for e.g. green algae, simple microbes and symbionts.

**Quadrant 2: acidic – oxidised**

Has a disposition towards bacterial infections and to fungal infestation; is the terrain for e.g. lichens and fungi, therefore also for mycoses, tubercle- and leprosy bacteria as well as antibiotic forms of fungi.

**Quadrant 3: alkaline – oxidised – hypertonic, which is the area of the tubercular constitution**

It is precisely the area of chronic disease in which pathogenic cell wall deficient bacterial forms (CWD) prefer to grow, according to Mattman. It is characterised by increased release of free radicals and, according to Vincent, disposes the patient to chronic viral diseases and degenerative processes. The dotted, downward-curving line which is curved downwards within this quadrant marks the area of malignant diseases; the diagonal line within this quadrant is the “line of thrombosis”.

**Quadrant 4: alkaline – reduced**

Finally, this is the terrain for pathogenic germs such as pneumococci, typhus, cholera, the plague, as well as for kelp.

Within quadrant number 1 a normal healthy life is possible. Approximately a hundred years ago the frequent occurrence of clinical tuberculosis was very characteristic; the condition of the blood at that time often corresponded to quadrant number 2. While living conditions changed during the last 50 years, a further move towards quadrant number 3 has taken place. Therefore nowadays the classical bacterial infectious diseases are rarely seen and, in their place, chronic viral diseases are on the increase, and so are degenerative and malignant processes. Mycoses, which are frequently seen these days, indicate a transition from quadrant number 2 to number 3.

Looking at the changes of the blood milieu towards quadrant number 3, which is the quadrant of chronic illness from the bioenergetic point of view (table 2), it becomes clear that in contrast to the physiological conditions a marked increase of energy takes place in the blood. However, as cell metabolism is blocked, this energy cannot be put to use by the tissues. For that reason energy in the saliva is decreased and only a fraction of the energy is excreted with the urine, compared to the normal amount.

Owing to these changes in the milieu of blood and tissues serious changes take place in the basic system according to Pischinger. Based on the energetic changes in the blood in chronic disease, it can be assumed, that sufficient energy is present to ensure the survival of cell wall deficient
bacteria and cytoplasm. Like viruses they do not need their own energy metabolism due to their parasitic lifestyle within erythrocytes and leucocytes, but simply require the equivalent of their cell nucleus.

Should the pathological changes in the blood and body tissues of the population continue as previously and unchecked, it is very likely that the blood milieu will move into quadrant number 4. In this quadrant life as we know it today will probably no longer be possible. Incidentally, the condition of our pets and domestic animals is not so different from that of humans. Comparable milieu changes in the interior and exterior of plants also play a part in the development of plant diseases (Hoffmann et al., 1994).

This shows quite clearly that humans, animals and plants are all part of one common ecological system.

The most important factor for milieu changes in humans is nutrition (Mielke, 1998); of especial significance is a high intake of animal protein. Furthermore vegetable foods only deliver a fraction of the nutrients that they used to contain a few decades ago as the soil in which they are grown is depleted.

As long as 30 years ago Kollath (Kollath, 1967) pointed out the result of an ongoing deficient diet (“mesotrophy”): “The situation is very simple: Following a diet rich in animal protein as recommended by Kühnau for younger as well as older people, those who follow this diet will move towards chronic illness and infirmity ‘irrestibly and irrevocably’, to use Kühnau’s own words. If we can manage to convince people of the importance of a diet based on wholefoods, as I have suggested, then it will be possible gradually to regain the original state of health of individuals and that of following generations”. Animal testing carried out on rats with a “scientific diet” had shown that the results of chronic malnutrition can get dramatically worse over only a few generations. This will show itself in the shape of malformations, stillbirths and finally extinction after the 4th generation.

As we know today, chronic malnutrition leads first to chronic intestinal inflammation with dysbiosis and, later, to a degeneration of the intestinal mucosa with atrophy of the villi (Werthmann, 1988a) and finally to the so-called “Leaky Gut Syndrome”. This means that the intestinal mucosa becomes increasingly permeable to macromolecules of the lumen, antigens and toxins, connected with an inflammatory-degenerative and/or atrophic destruction of the mucosa. As a result of the damage to the intestinal walls, the function of the gut as an excretory organ is seriously compromised. According to estimates in the USA, approximately 40% of the population there currently suffer from leaky gut-syndrome.

Taking the chronically inflamed
and degenerated gut as a major cause of the tubercular milieu, we find that it has seven pathogenetic aspects:

1. Malabsorption of nutrients followed by flatulence and tiredness.

2. Absorption of large food particles leading to food allergies and new symptoms in the target organs like arthritis and fibromyalgia.

3. Damage to the carrier proteins resulting in a relative nutritional deficiency which can bring out a variety of symptoms, such as magnesium-deficiency-related muscle spasms or copper-deficiency-related elevated cholesterol values.

4. Impaired detoxification via the gut resulting in an increased sensitivity to chemicals (MCS).

5. Impaired defence by immunoglobulin A, leading to a lowered immunity to protozoa, bacteria, viruses and candida.

6. Bacteria and yeasts can penetrate the gut wall resulting in infection of body cavities and organs.

7. Formation of antibodies, which can penetrate the gut wall and resemble antigens of our own tissues, resulting in auto-immune diseases such as rheumatoid arthritis, lupus, multiple sclerosis, thyroiditis and other “incurable” diseases.

As approx. 80% of the body’s immunologically active tissue can be found in the intestinal area, the tubercular milieu has a direct impact on the immune system. According to the American Food Marketing Institute, there is therefore a close relationship for the U.S.A. between diet and frequency of illness. (Source: Food Marketing Institute, USA, quoted by Reimerdes):

The relationships are as follows:

<table>
<thead>
<tr>
<th>Disease</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Cholesterol</td>
<td>93%</td>
</tr>
<tr>
<td>Cardiac diseases</td>
<td>88%</td>
</tr>
<tr>
<td>High blood pressure</td>
<td>86%</td>
</tr>
<tr>
<td>Stroke</td>
<td>69%</td>
</tr>
<tr>
<td>Diabetes</td>
<td>65%</td>
</tr>
<tr>
<td>Intestinal cancer</td>
<td>60%</td>
</tr>
<tr>
<td>Prostate cancer</td>
<td>35%</td>
</tr>
<tr>
<td>Breast cancer</td>
<td>30%</td>
</tr>
</tbody>
</table>

Apart from diet, other influences may be of significance in the development of a tubercular milieu, such as disturbance fields, of which up to approx. 80% are located in the head area (particularly in teeth, sinuses, tonsils) or psychological factors. Disturbance fields or a heavy metal toxic load (e.g. amalgam from dental fillings) are the most common barriers to recovery in naturopathic therapy (Kobau, 1998). Figure 4 shows the relationship of various organs to the teeth.

Most important are generally suppressive treatment interventions and vaccinations (Elmau, 1985); these can alter the milieu so permanently that the metabolism is driven further into the tubercular constitution.

One example is diabetes mellitus which is a degenerative disease of the tubercular constitution. It is clear that a marked increase in this illness has occurred especially in elderly American patients during the last 40 years (Figure 5). These curves run broadly parallel with those for other tubercular diseases and they also run parallel to the introduction of antibiotics, chemotherapy and vaccinations (Vithoulkas, 1998).

**Naturopathic regulatory treatment of the tubercular constitution**

Conventional medicine doubtless has its merits, and the aim of this article is not to disparage it. However, if medications are used which are known to favour the development of the tubercular constitution and therefore of chronic illness, the damage caused should be addressed by using naturopathic treatments in order to minimize the negative effects. Examples of such medications are vaccines, antibiotics and chemotherapy. Otherwise the widespread tubercular constitution and the anticipated move of the blood milieu into quadrant 4, according to Vincent, could signify a serious threat to the health of the population.

In conventional medicine, clinical tuberculosis is treated by combinations of anti-tubercular drugs. For other tubercular diseases such as cancer, even today surgical and chemotherapy measures are applied in many cases. However, gradually the realisation seems to be dawning that there are metabolic mechanisms that make a regulatory treatment of cancer possible.
Recently the results of a multi-centred study about the risk of melanoma were presented; this had been carried out with the support of “Deutsche Krebshilfe” (Project-No. 70-2112) (Kölmel et al., 1999). It was found that the “risk of suffering from a malignant melanoma decreases if an individual has experienced recurrent febrile infections”; “the risk of melanoma was significantly lower when the questioned individuals had had tuberculosis, severe staphylococcal infections (e.g. in the form of abscesses, inflammation of the mammary gland or of bone marrow), blood poisoning or pneumonia. The risk was also reduced when the questioned individuals had had a minor infection with fever above 38.5 degrees C, such as influenza, bronchitis, herpes or summer diarrhea in the previous five years. The more infections the investigated individuals had had, the lower was their risk of suffering from melanoma. (Quote from a press release of the “Deutsche Krebs-hilfe”, 1999).

These are things that practitioners of natural therapies have known for a long time.

Apart from the removal of obstacles to cure and a change to a wholesome diet, a naturopathic treatment of the tubercular constitution according to the guidelines laid down by Vithoulkas (Vithoulkas, 1998) should be undertaken.

Based on the investigations by Kollath and others, a fully nutritional diet consists of the following: (modified from v. Koerber et al., 1987):

- Preferably food of vegetable origin (predominantly lacto-vegetarian diet)
- Preferably unprocessed food (food should be as natural as possible)
- Ample consumption of uncooked fresh foods (approx. half of the to-
different age-groups in the USA since 1935 (Harris, MI, National Diabetes Data Group, from data of the National Health Interview Surveys, National Center for Health Statistics, 1984) from F.A. Gries (1991)

- Preparation of tasty meals by using fresh, gently cooked food with only small amounts of fat.
- Avoidance of foods that contain additives.
- Avoidance of food that has been processed by certain technologies such as genetic modification, food design, irradiation.
- If possible only using products of approved organic farming (according to the guide lines of each country e.g AGÖL or IFOAM).
- Preferably regional and seasonal products.
- Food preferably unpackaged or wrapped in an environmentally friendly way.
- Avoidance or reduction of the general emission of pollutants and therefore of intake of pollutants by using environmentally friendly products and technologies.
- Reduction of depletion from refining, by reducing intake of animal foods; no meat from pork, hare or rabbit (Reckeweg).
- Preferably agricultural products grown and marketed under socially acceptable conditions (e.g. fair trade with developing countries).

These recommendations were further amplified by the pediatrician and general practitioner Konrad Werthmann (Werthmann, 1997), who generally recommended abstinence from cow’s-milk-derived protein and chicken’s eggs.

Owing to the frequent damage of the gut and the impaired absorption resulting from it, most patients need orthomolecular food supplementation until their intestinal mucosa is restored. This supplementation should also contain anti-oxidants.

A basic principle of naturopathic regulatory treatment of the tubercular constitution is that it can only be successful so long as the patient still has the ability to regulate. Furthermore it is absolutely necessary to support the excretion of body-waste and toxins released from the “Pischinger area” during the treatment.

According to Vithoulkas the three levels of the human being are closely interconnected and have to be treated simultaneously to be able to overcome the tubercular constitution. They are M (= mental-spiritual), E (= emotional-psychological) and P (= physical and material).

Besides treatment of levels M and E with adequate procedures (such as breathing exercises, behaviour therapy, psychological support as a part of anthroposophical medical treatment), the basic treatment with medical preparations consists primarily in a combination of milieu therapy, (classical or complex-
homœopathy, biophoton activation, isopathy and immune modulation.

**Treatment with SANUM-medications** (see “Isopathic/Homeopathic Materia Medica”) forms an important connecting link between the material level P and the two non-material levels M and E.

By way of illustration, a medicinal milieu treatment for the regulative eradication of the tubercular constitution by Werthmann (Werthmann 1999) is described below. This basic therapy has proved its worth in the treatment of children and adults over many years. According to Werthmann, adults receive the following treatment:

1. Ubiquinone comp. (Heel) + CITROKEHL: Mixed injection i.m. once weekly

2. for two weeks: EXMYKEHL 3X Supp: evenings Monday - Friday; Saturday and Sunday FORTAKEHL 5X one tablet to be taken twice

3. after two weeks for some months: Monday - Friday: in the morning 1 tablet MUCOKEHL 5X, in the evening 1 tablet NIGERSAN 5X, Saturday and Sunday twice daily 1 tablet FORTAKEHL 5X.

4. from the beginning of the second week: alternating daily SANUKEHL Myc 6X or SANUKEHL Klebs 6X; 5 drops to be taken twice daily, plus 5 drops once daily for topical application.

5. Starting in week 3: 1 capsule UTILIN “S” (weak or strong depending on the constitution) once every 14 days.

6. Acid-alkaline regulation with ALKALA N and SANUVIS.

The mixed injection with Ubiquinone and other substances that contain “carbonyl-groups” as well as CITROKEHL serves to activate the photons in the cells and to enhance cell respiration. EXMYKEHL and FORTAKEHL help to re-establish the symbiosis of the gut and MUCOKEHL and NIGERSAN reverse the evolution of the high-valency forms according to Enderlein; SANUKEHL preparations stimulate the immune system to eliminate cell-wall-deficient forms of pathogenic microorganisms (Cornelius, 1999; Schneider, 1999a; Werthmann, 1999). Finally, UTILIN “S” serves as a multi-potent immune-stimulant (Hartmann, 1990).

For the excretion of metabolic waste products and heavy metals from the “Pischinger area” the SANUM products CERIVIKEHL and especially USNEABASAN (Schneider, 1999b) are suitable; these are produced from lichens. The excretion needs to be enhanced for a few months; simultaneously the magnesium and zinc metabolism is regulated.

10 drops USNEABASAN (or CERIVIKEHL) should be taken in the morning, 1 capsule MAPURIT at lunchtime and 10 drops of ZINKOKEHL in the evening.

For the treatment of children the described basic treatment of the tubercular constitution is shortened and simplified (Werthmann, 1998b) as the ability to regulate is stronger then in adults. For infants of less then 1 year medication should not be administered orally if at all possible; instead topical application on the inner side of the elbow is recommended. Apart from this the dosage should be based on the number of years the child is old; one drop per year:

1. for 1 week once daily NOTAKEHL 5X drops or FORTAKEHL 5X drops for topical application or to be taken orally.

2. after that for several weeks: from Monday to Friday SAN KOMBI 5X drops in the morning, Saturdays and Sundays NOTAKEHL 5X drops or FORTAKEHL 5X drops.

3. Alternating daily 1-2 drops UTILIN N and RECARCIN N to be applied topically in the bend of the elbow.
4. in addition, classical homoeopathic treatment with Thuja 6X.

Summary

The inherited or acquired tubercular constitution is a common cause of most chronic diseases. This had already been realised and written down by Hahnemann approximately 200 years ago. It has been confirmed by numerous other scientists such as Allen, Bernard, Béchamp, Enderlein and Reckeweg who investigated and clarified details. Although the existence of cell wall deficient variations (CWD) of pathogenic bacterial forms had initially not been recognised by conventional medicine, modern technology made it possible to show that they form an important substrate for this constitution. The triggering factor for the development of the tubercular constitution is mainly a change in the blood milieu and tissue milieu. Malnutrition plays an important part in the development of such a constitution. During the last 40 years generally suppressive measures in the form of chemical medication and vaccinations have become increasingly significant. After an improvement in diet and the removal of any obstacles to cure, the naturopathic regulatory therapy can in many cases successfully help to cure chronic illness by removing the tubercular constitution.

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