

Schüssler Express

#15



Causes of Cell Injury (Part II)

The stresses that can induce cell injury range from the gross physical traumas of, for example motor vehicle accident to single gene defect which is the underlying cause of many metabolic diseases. Most of these causes can be grouped into broad categories:

Hypoxia (*Oxygen deficiency*)

Impinges on aerobic oxidative respiration and is an extremely important and common cause of cell injury and death. Hypoxia should be distinguished from ischemia, which is a loss of blood supply from impeded arterial flow or reduced venous drainage in a tissue. Ischemia is the most common cause of hypoxia; oxygen deficiency may also result from inadequate oxygenation of the blood, as a result of respiratory failure, or loss of oxygen carrying capacity of the blood, as in anaemia or carbon monoxide poisoning. CO produces a stable carbon oxyhaemoglobin that blocks oxygen transportation.

Physical Agents

Trauma, extremes of temperature, radiation, electric shock, and sudden changes in atmospheric pressure all have wide ranging effects on the cells.

Chemicals and Drugs

Virtually any chemical agent may cause injury; even innocuous substances such as glucose or salt, if sufficiently concentrated, may so derange the osmotic

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environment that injury or cell death results. Oxygen at sufficiently high partial pressures is also toxic. Agents commonly known as poisons may cause severe damage at the cellular level by altering membrane permeability, osmotic homeostasis, or the integrity of an enzyme cofactor, potentially culminating in the death of the whole organism. Other agents are pollutants, insecticides, carbon monoxide, asbestos, therapeutic drugs and social stimuli.

Microbiologic Agents

These agents can range from the sub-microscopic viruses to tapeworms; in between which are the rickettsia, bacteria, fungi, and higher forms of parasites.

Immunologic Reactions

Although the immune system serves to defend the organism against biologic agents, immune reactions may nevertheless cause cell injury. An anaphylactic reaction to a foreign protein is a prime example and reactions to self-antigens are responsible for a number of auto-immune diseases.

Genetic defects

Genetic defects may result in pathologic changes as conspicuous as the congenital malformations associated with Down syndrome, or as subtle as the single amino acid substitution in the haemoglobin S of single cell anaemia.

A. Sutton



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Letter extracted from the files of Dr. Docetti Walker

I wish to say that I possess a copy of your translation of Dr. Schuessler's Biochemic Treatment of Disease, which I have extensively used in my practice for over a year. When diagnosis (not mere guess work) is properly applied and the remedies are used direct in the pathological conditions pointed out in your therapeutical index, then they become more specific certainties, and will cure all curable diseases, and the practitioner is no longer left to grope his way in the dark. The Biochemic system of practice

established on a rational basis is a demonstrated truth, and let him, who doubts the assertion candidly, and without prejudice, investigate for himself and be convinced, thereby profit by it himself, and benefit suffering humanity at large.

I admit it is easier to practice under the old system, as that is a routine way, hit or miss. But the modern scientific physician seeking after truth is, and must be a diligent worker and a thorough student of the laws of nature, reaching after truth wherever found regardless of "Pathies" and "isms" and medical orthodox dogmas.

T.G.W. MD

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Even a temporary low can be conquered with gentle biochemic remedies and the Plus in Energy.

A combination of No. 2, 5 and 7 supports bones, muscles, brain power, regeneration and strength of nerves.

- **Morning:** No. 2 Calcium phosphate 6X
- **Noon:** No. 5 Potassium phosphate 6X
- **Evening:** No. 7 Magnesium phosphate 6X - as "Hot Seven"

Administration: At the times indicated take 5 Tablets - either to be dissolved in the mouth or in hot water (sip slowly - keeping each sip in the mouth for a few moments before swallowing)

Duration of treatment: 4 - 6 weeks

German Association of Biochemistry

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