

# Medical Conditions Associated With Low Glutathione Levels

Taken from Dr. Robert Keller's book "Glutathione". Your best Defense against Aging, Cellular Damage and Disease. Pages 14 and 15

A snapshot of the many functions of glutathione and its potential importance can be seen by the variety of diseases associated with decreased glutathione levels. They start with aging, Alzheimer's and acne and include the most recent public health scares, Bird Flu and MRSA.

**Table 1** contains a list of diseases impacted because of decreased glutathione levels.

## CONSEQUENCES OF DECREASED GLUTATHIONE

### GENERAL

- Obesity
- Immune Signaling
- Endothelial dysfunction
- Alcoholism
- Inflammation
- Heavy metal poisoning

### CARDIOVASCULAR

- Angina and spastic angina
- Unstable angina
- Heart attacks
- Positive stress tests
- Reperfusion after cardiac bypass surgery

### PULMONARY

- Emphysema (COPD)
- Pulmonary Fibrosis (IPF)
- Asthma
- Muscle wasting in COPD
- Chronic bronchitis
- Tobacco abuse

### DERMATOLOGY

- Wrinkles, sagging
- Acne
- Psoriasis
- Atopic dermatitis
- Eczema
- Others

### INFECTIOUS DISEASES / IMMUNOLOGY

- Hepatitis A, B and C
- Herpes simplex
- Herpes zoster/shingles
- Influenza and Bird Flu
- HIV
- MRSA
- Common viral infections (upper respiratory gastroenteritis)
- Others

### ONCOLOGY

**Every cancer studied including:**

- Brain
- Head and neck
- Thyroid
- Lung
- Esophagus
- Stomach
- Intestine
- Liver
- Pancreas
- Kidney
- Uterine
- Ovarian
- Prostrate
- Leukemia (acute and chronic)
- Lymphoma
- Multiple myeloma
- Others

### OPHTHAMOLOGY

- Cataracts
- Macular Degeneration

### RHEUMATOLOGY

- Systemic Lupus Erythematosus (SLE)
- Rheumatoid Arthritis (RA)
- Multiple Sclerosis (MS)
- Systemic Sclerosis (Scleroderma) Syndrome
- Behcer's Syndrome
- ME / CFS
- Fibromyalgia
- Others

### NEURO / PSYCH

- Migraine headaches
- Alzheimer's
- Parkinson's
- Multi infarct dementia
- Autism
- ADHD (Attention Deficit Hyperactivity Disorder)
- Bipolar disease
- Schizophrenia
- Lou Gehrig's disease
- Huntington's chorea
- Multiple Sclerosis (MS)
- Depression

### OB / GYN

- Infertility
- Spontaneous abortions
- Pre Menstrual Syndrome