**Therapeutic Application of Amino Acid Therapy**

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| Heavy metal detoxification | Cysteine, Cystine, Glutathione, Methionine (sulfur containing amino acids) |
| Counteracting effects of free radical activity | Glutathione, Methionine |
| Assist fatty acid metabolism | Carnitine, Methionine, Taurine |
| Accelerate wound healing | Arginine, Proline/hydroxyproline, lysine |
| Viral infection control | Lysine |
| Thymus activity enhancement | Arginine |
| Glucose tolerance improvement, enhance insulin production and utilization | Arginine, Cysteine, Glutamic acid, Glycine, Taurine |
| Immune system support/enhancement | Glutathione |
| Rheumatoid arthritis | Histidine |
| Brain detoxification (of ammonia) | Glutamic acid, Glutathione |
| Brain detoxification (of histamine in histadelic schizophrenia) | Methionine |
| Radiation effects protection | Cystine, Glutathione, Histidine |
| Weight control and obesity | Carnitine (mobilize fat deposits, burn fat for energy), Methionine, Phenylalanine, Tryptophan, Valine |
| Depression | Glutamine, Glutamic acid, Phenylalanine, Tryptophan, Tyrosine |
| Infertility | Arginine, Carnitine |
| Insomnia | Tryptophan |
| Epilepsy | Taurine |
| Aging process, skin and soft tissues | Glutathione, Proline/hydroxyproline (with vitamin C) |
| Ageing process in general | Amino acid blend, Glutathione (prevent cross linkage, free radical damage) |
| Cholestasis | Taurine |
| Circulatory disorders, insufficiency | Carnitine, Taurine |
| Brain concentration (energy for brain) | Glutamic acid (derived from glutamine) |
| Behavioral problems | Glutamic acid, Taurine, Tryptophan, Threonine |
| Alcoholism/ETOH induced tissue damage | Cystine, Glutamine |
| Peptic ulcer | Glutamine |
| Hair health | Cystine |
| Cancer | Glutathione, proline,lysine,carnitine (acetyl) |
| Lipid peroxidation | Glutathione, proline,lysine,carnitine (acetyl) |
| Myocardial infarction protection | Carnitine, Methionine, Taurine (spares K) |
| Pain control | Phenylalanine (as DLPA or d  Phenylalanine) |
| Chronic disease | Amino acid blend, Cysteine/Cystine (required for B6 utilization), Phenylalanine |

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