In Utero Other Factors Copper Piping Vegetarian Diet Occupational Copper I.U.D. Birth Control Pill Xeno-(Drinking Water) and/or Estrogen estrogens Exposure The copper in the intra erine birth control device to be extremely danger many women.. Sympto pically begin 2-5 month fter insertion, though fo ncern initially if symptoms tal symptoms develop. TISSUE COPPER LEVEL GOES UP Zinc Level Drops Potassium Magnesium Drops and Sodium Calcium ▲Stress Rises Adrenals Weaken **Level Drops** Estrogen **Level Rises** Dominance Rises** Accumulates in Liver Iron Deficiency Slowing of Thyroid & Metabolism Ceruloplasmin (Cp) Production Drops **Fatiaue** mitochondria (wl energy is produce available coppe blood serum, lare and Emotional Stress **∡** Low blood serum, to the effect stored bio-u copper, cause be absorbed the hemoglob greater tendency to lose weight). Copper also blocks T3 in the cells, The Response Triggered Energy Formation of a Homocysteine "Adrenal Burnout" "Calcium Shell" Even independant of copper toxicity of which symptoms are very similar, common symptoms associated with adrenal burnout include complete physical exhaustion, depression, resentment, apathy, anger, withdrawal, diziness, insomnia, poor concentration, tendency to panic, loss of interest in friends activities & sex. With adrenal exhaustion the body also struggles to convert T4 hormone into active T3. Copper increases tissue levels of calcium. A "calcium shell" is formed as the body's ultimate defense against stress. The emotions are dulled, and the previously racing mind slows down, making one feet better. Dr. Maller Ph.D. sums up the calcium shell as follows: **Anxiety Increase** Increases Neurotransmitte Accumulate | Imbalances Imbalances As copper further stimulates the brain it causes the overproduction of the stimulating neurotransmitters serotanin, epinephrine, causing a speeding up of thoughts (a racing mind) and later "resulting in manic behavior, paranolo, anniety, Bipolar disorder, and in Brain calcium shell as follows: "As excess copper and calcium increase in the cells and fissues, a calcium "shell" will build that will tend to block more and more feelings until the person no longer is aware of whalf is being felt and experienced. Such a person often ralks of "not feeling anything" or being "numb" and "dead" emolionally. As the calcium shell builds, a person's perception and awareness diminish. The overall psychological effect of excess copper is a loss of emotional control and awareness accompanied by "Copper inhibits the brains ability to break down dopamine, increases norepinephrine and decreases histamine, which can result in a wide range of psychological symptoms like mind racing or racing Impaired Old Brain & GABA & Lowered Seratonin Diencephalon GABA is a colinity neurotransmittor in the brain. It is dependent on zinc. With low zinc, a GABA imbalance occurs. This can later lead to symptoms such as impaired speech, aggressive behaviour, intense intability, avaiely, inflammatilian of the agastrain. **NGF Drop** Neocortex are Over-Stimulated Oxidation Our neocortex is the thinking, rational brain the part that makes uthurians, and allows humans to reason and express higher conscious feelings such as love, and compassion. Excess copper in the brain weakers the me weakers the me weakers the me the expression of the combine available emotions with reasoning to create feelings. A sense of pulling away emotionally occurs, Furthermore, stress raises cortisol levels which results in increased fear a crakely, and it is the cortex's job to reason if the darger's real. With the functioning of the sense of the feelings in the cortex's job to reason in the darger's real. With the functioning of the sense o Weight Loss Melatonin Our old brain and emotional (diencephalon) brain o based on survival, protecting young, qui Heart Vhile initially ight gain may experienced ymptoms like mine racing or racing thoughts, uncontrollable speech, anxiety energy chakra closes neuronal destruction... [5] Meanwhile, as zinc decreases, so too does NGF (nerve growth factor). The amount of NGF in the body is directify related to the intensity of romantic feelings. [15] alencephalon, the over-stimulation of which creates an unstable mind and ultimately leads to forms of mental lilness. Stimulation of the old brain tends to accentuate or province province pisodes. In addition to stimulating this old reptilian' brain (which tends toward rigid & compulsive behaviour, the capper is also deposited targety in the limbic brain [7]. which includes the hippocampus. This is this responsible for emotions and value judgements (often made unconsciously and unconsciously unconsciously unconsciously unconsciously unconsciously un Histamine Breakdown Link to Cancer LINK to Cancer Copper also directly depletes molybdenum and Vitamin C, deficiencies of both are linked to cancer. 'Copper is believed to be the switch that turns on the angiogenesis process in turnor cells. It has been observed that abnormally high serum copper levels are found in patients with many types of progressive turnors." Emotional Numbness, Withdrawal, Apathy, and Mood Changes icium shell, the weakened neocortex function, and the d adrenols all lead to this, even individually. When comt tage, an extreme disconnect from true emotions can a Time person can live their life and in some cases still fur ly in most areas, but they are not in touch (or even aw their true emotions toward themselves or others. nile higher conscious emotions such as love and compassion are umbed (sometimes beyond the perons' own awareness), many aguitve (lold brain) emotions give rise, especially Apathy, intribability tithdrawal, Anxiety, and Depression. Other reactions can include anic, Resentment, Anger, Fear, Emotional Over-Reaction, even Suicide. tumors." ~Dr. Dwight L. McKee M.D Over-methylation ADDITIONAL SYMPTOMS MAY INCLUDE: -sudden changes in mood -auditory hollucinations and 'strange thoughts' est in areas or people of previous interest and interest in things previously not Interested in -uncharacteristic personality changes -disassociative fugue state over-methylation is caused by low histamine and high copper (though, not in some cases dopper lost individuals may in fact be ader-methylators). Paranoid schizophrenia prd psychosis is associated with over-methylation caused by copper toxicity (4). Over-methylation is the dominant cause behind 2/3 of those with anxiety attacks. Numerous studies show that 1/2 to 2/3 of ichizophrenics have high levels of copperl shared to copper later. DETOXING Distortion of Thoughts Memories, perception and houghts are now being influenced / controlled by copper's effects (just as a drug influences ones erseut of neurotransmitter imbalance and the calcium shell, it is not uncommon for a patient to act out with a sense of detachment, often unaware entirely of cruelty they may be imposing on others close to them. Affect on Relationships Other symptoms of over-methylatio include: Depression, Frustration, Slee disorders, Self multilation/Cutting, incer pain tolerance, Weight gain, Low libido, Delusions, & self-imposed Isolat and/or Withdrawal. (i) Adrenal burnout (leading to withdrawal, irritability, depression, As Dr. Eck explains in his 1984 book on Energy, the exhaustion or imbolance can 'destroy a morriage that should have lasted for (ii) Low NGF (directly lessens the intensity of romantic feelings); (iii) altered neurotransmitter levels in the brain affecting outlook; (iii) altered neurotransmitter levels in the brain affecting outlook; (iv) With the sympathetic NS, stress response in overdrive, survivo The calcium stell purpose color of the color derfunctioning of metallothionein which ir rh impairs the elimination of heavy metals. Link to Alzheimer's of the hippocampus (affecting memory), but depression further impairs cell growth. "Many people who have been out of balance for years have been unable to expret their negative ernofions, such as resentments, fears, amxieties, angers, and hatred. It have stored all of their ernofional hostillies and anger in their lissues in the same way that money is stored in a bank. When some people start to improve, many of their hidden repressions and hostillities can come pouring out. This could possibly strain a loving relationship. The best thing to so when this happens to a close loved one is to just let it pass and sit out the storm." ~Dr. Paul Eck "There are two areas in your brain where you grow new brain cells. One is the hippocampus, which is involved in memory. It turns out that this growth is decreased in cases of depression." ~ Kirwan, Behavioural Brain Research, 2013 We also know from Dr. Rashid Dean's [PhD] study that "over time, copper's cumulative effect is to impair the systems by which amyloid beta is removed from the brain." Amyloid beta is a main component of the amyloid plaques found in the brains of Alzheimer patients. On the other hand, when detox is properly advised and monitored through HTMA, and the patient receives the necessary support and guidance, the outcome can be more positive. Detoxing slowly (allowing a 6 month to 3 year window) to properly rebalance minerals, especially in cases when adrenals have also been exhausted, can help reduce many of the psychological consequences. For those who are committed to going through this process (which often is described as a lengthy roller coaster of ups and downs), coming out the 'other side' is invariably expressed as a glift, the arduous detox process a necessary passage to a more awakened state of grafitude, understanding, personal growth, and being able to serve others.

**Balancing the Sodium / Potassium levels is essential, and this is another reason why having regular HTMA testing done is imperative to determine exact levels and proper supplementation. Until the high Sodium/Potassium level is corrected, it can be almost impossible to get through to counselling a copper toxic person.