

*Potential Treatments for  
Reversing Neurological  
Damage from Rat  
Lungworm*

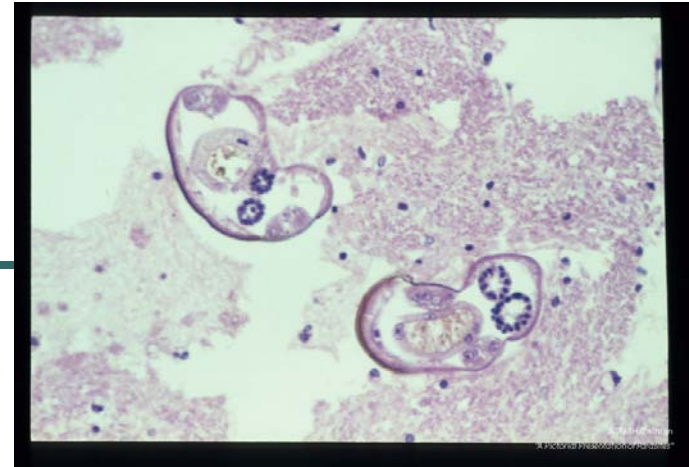
Case Study of Graham  
McCumber, Hilo, Hawaii

by

*Kay Howe*

# MEDICAL ISSUES IN A COMA

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- Brain lesions
- Left eye turned inward
- Quadriplegic
- MRSA
- Cdiff
- Pneumonia
- Hydrocephalus
- Overall loss of brain mass
- Enlarged heart
- Elevated heart rate and blood pressure

# MEDICAL ISSUES AFTER COMA

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- Ataxia
- Short-term memory loss
- Double vision
- Impaired optical tracking
- Peripheral nerve damage
- Paralysis of two fingers on left hand
- Difficulties with Bladder and bowel functions
- Spastic breathing and speech
- Insomnia

## SUPPLEMENTS

# CHLORELLA

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- Contains chlorophyll
  - Antioxidant
  - Anti-inflammatory
  - Wound healing
- Helps re-grow tissue
- Boosts the immune system
- Excellent for treating brain and nerve disorders
- Support healthy intestinal flora
- Alkaline
  - Helps regulate the body's PH
  - Improves metabolic function

## SUPPLEMENTS

# SPIRULINA

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- Superior source of digestible protein
- Best source of the omega-3 fatty acids
  - **Docosahexaenoic Acid (DHA)**
    - Efficient brain function
    - Building block for membranes that surround brain cells, including the synapses
    - Reduces inflammation
    - Helps produce Brain-Derived Neurotrophic Factor (BDNF)
  - **Eicosapentaenoic acid (EPA)**
    - Reduces inflammation in the body
  - **Gamma linolenic acid (GLA)**
    - Anti-inflammatory
    - Treatment for autoimmune disorders

## SUPPLEMENTS

# SPIRULINA (contd)

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- Phycocyanin (phytochemical)
  - Enhances brain function and nervous system
- Support healthy intestinal flora

- Alkaline
  - Helps regulate the body's pH
  - Improves metabolic function

## SUPPLEMENTS

# NONI

*Morinda citrifolia*

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- Used for centuries in Ayurvedic medicine
- Can reverse neurological problems
- Used for digestive, respiratory, cardiovascular and inflammation problem
- Pain reliever
  - shown to be 75% as effective as morphine sulfate
- Effective against many forms of “staph”
- Activates serotonin receptors in the brain



## SUPPLEMENTS

# XING NAO WAN

*Schisandra chinensis*



- Traditional Chinese Medicine
  - Consciousness-restoring
  - Anti-hypertension
- Bu Nao Wan
  - Schisandra chinensis
  - Hepatoprotective
  - Antiviral
  - Neuroprotective
  - Assists with treatment of neurosis, short-term memory loss, and recovery of nerve function.
  - Study showed it to improve the condition of a 23-year old man in China who went into a coma from RLW. The man emerged from the coma and left the hospital after 4 months with some memory loss.



## SUPPLEMENTS

# CURCUMIN

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- Antioxidant
- Anti-inflammatory
- Anti-fungal
- Anti-bacterial properties
- Has the ability to produce BDNF by activating the Nrf2 pathway, creating antioxidants, that protect mitochondria
  - Mitochondria provide all cellular energy
- Phytonutrients, including curcumin, spirulina and chlorella activate the Nrf2 pathway

# INTRA-VEINOUS VITAMIN THERAPY

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- **Glutathione**

- Powerful brain antioxidant in human physiology
- Prime focus for brain research around the world
- Responsible for
  - synthesis, protection and repair of DNA
  - synthesis of proteins and transport of amino acids
  - metabolism of toxins and carcinogens
  - immune enhancement
  - activation of enzymes
  - elimination of heavy metals.
- Scientists measure glutathione levels as an indicator of cellular health

# INTRA-VEINOUS VITAMIN THERAPY



## Week 1

- Vision and mind were clearer
- Detoxification effects made him feel tired and actually worse
  - Commonly seen when the body begins to detoxify

## Week 2

- Improved balance and coordination
- Walking was more precise and thoughtful
- Ataxia had begun to diminish
- Improved ability to distinguish left and right
- Leg color suggested improved circulation

# INTRA-VEINOUS VITAMIN THERAPY

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## Week 3

- Graham slept through the night for the first time!
- Several bowel movements without enemas
- Improved balance and endurance
- Able to walk short distances without the use of walking sticks
- Able to walk farther than before
- Improved vision
  - he “looked you more in the eye”

# INTRA-VEINOUS VITAMIN THERAPY

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## Week 4

- Able to walk 100 yards without having to stop and rest
- Still felt extremely tired
- If less than three treatments/week Graham would relapse
  - Left eye would begin to turn back inward
  - Graham would experience mental confusion and pressure in the head

## Week 6

- Returned the wheel chair to the rental agency
- Able to sit down and stand up from a chair with more control.
- Possible to navigate a short obstacle course of people seated in chairs
- Could engage in limited social activities for short durations

# INTRA-VEINOUS VITAMIN THERAPY

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## End of 3<sup>rd</sup> Month

- **Able to navigate short flights of stairs**
- **Walk with the aid of only one walking stick.**
- **Improved vision**
- **Improved dexterity in left hand – able to play guitar!**
- **Improved voice**
- **Decreased insomnia**
  - **No more perscriptions!**

## End of 4<sup>th</sup> Month

- **Improved balance and stamina**
  - **Walking 1 mile/day with some rest stops**
- **Improved digestive functions**
- **Improved strength and quality of voice**
- **Good cognitive functions**
- **Able to begin reading**
  - **Improved visual tracking**

# NERVE SUPPORT FORMULA

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- Benfotiamine (B1)
  - Neuropathy
- Methylcobalamin (B12)
  - Chronic fatigue syndrome
  - Stroke
  - Depression
  - Alzheimers disease
  - Removes brain-damaging levels of glutamate which:
    - Reduces fatigue
    - Stabilizes mood
    - Improves memory and executive function.

# Case Studies

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