



Warming Therapies to Address GI Tumors in Integrative Oncology

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outline

- Brief review of GI cancer stats
- Warming therapies throughout history and medical systems
- General impact of fever on health outcomes
- Mistletoe throughout history and mechanism of action
- Where to next?



attacking the tumor
is NOT enough...

hyperthermia



Swedana

Sunbaths

Moxibustion

Fire needle/cupping

Herbal wraps and poultices

Diaphoretic herbs

Niacin flush

Hyperthermia

Diathermy/lasers

Saunas/sweatlodge/Temazcal

Balneotherapy/hotsprings

Coley's Toxin

IL2 Therapy and PAMPs

you give me fever...

History

- Hyperthermia treatment documented since 2600BC in Egypt, 2000BC in Greece, 1700's in Germany, 1868---Busch and 1882 Fehleison (both Germany) and Coley 1890, 1913 William Mayo, MD (As in Mayo Clinic)
- Coley's Toxin used in US (at Memorial Sloan Kettering) as cancer treatment until 1963

mechanism of action

- Reversing hypoxia and enhancing perfusion in organs and tissues
- Acceleration of metabolism
- Stimulation of hormone regulating
- Synergizes other treatments
- Lowers inflammation (and subsequently also treats pain)
- Accelerates nerve conduction
- Activating NK Cells
- Induces TP53 expression
- Lowers Heat Shock Protein expression (if highly expressed shows more aggressive pathology) and correlates to good response with hyperthermia
- Multiple mechanisms of immunomodulation
- Up regulation of mitochondria
- Overcoming multiple drug resistance (MDR)
- Radiosensitizes cancer cells
- Abscopal Effect (distal tumors being treated via local application via cellular communication)
- Changes microcirculation



doctrine of signatures

Steiner saw the parasitic plant mistletoe blooming in winter, out of rhythm with its host tree, growing towards its own center, which reminded him of cancerous tumour behaviour.



Viscum Album Extract



- Mistletoe lectins are directly cytotoxic cell membranes and cyto-skeleton and induce apoptosis
- Anti-angiogenic by lowering VEGF
- Stabilize/repairs DNA
- Inhibits ribosomes and protein synthesis (inhibits proliferation)
- Impacts platelet aggregation and inhibits metastasis
- Anti-inflammatory and modulates pain response
- Immunomodulates (stimulate macrophages, T lymphocytes, NK cells, dendritic cells, cytokines, etc.)
- Acts like a fever-inducing therapy similar to that of Coley's toxin
- Stimulates marrow
- Enhances overall QOL including mental well-being and lifting fatigue
- Can be administered subQ, IV, intra-tumoral and into abdominal ascites and pleural effusion

take home message

- Fever more friend than foe
- VAE most studied integrative oncology therapy
- Main mechanism of action:
 - Immunomodulation
 - Cytotoxicity
 - Anti-angiogenesis
 - DNA protection
 - Quality of life
- Restores the rhythm and enhances all therapeutic interventions

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- <https://www.cancerresearch.org/immunotherapy/timeline-of-progress>



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book: *The Metabolic Approach To Cancer*

forthcoming book: *Mistletoe Therapy: Bridging Ancient Wisdom With Modern Medicine*

integrative metabolic cancer hospital: <https://believebig.org/bbih/>

doc training: <https://www.drnasha.com/mastermind-matc/>



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