

Introduction

- a) General usage
- b) General contraindications

Direct antiviral strategy by means of modern research and nutritional therapy

- a) Coriolus versicolor / kawaratake yunzhi / turkey tail
- b) Ganoderma lucidum / lingzhi reishi
- Indirect (preventive) antiviral strategy by immune support
 - a) by promoting digestion
 - b) with focus on fatigue

4. Attractions in mushroom nutrition

- a) Background of efficacy of mushroom nutrition
- b) History
- 5. Conclusion

General usage of mushroom nutrition

For health care practitioners mushroom nutrition can serve as: stand-alone nutritional strategy

- adjunct strategy for
- standard/other nutritional therapy, including herbal therapy
- Western medicine treatment
- acupuncture therapy

For utilization of mushroom nutrition's full potential holistic approaches such as TCM are of unquestionable value for individual assessment and selection of most suitable mushroom

"Let food be thy medicine and medicine be thy food."

General contraindications of mushroom nutrition

- usage of broad-spectrum antibiotics
- usage of immunosuppressives
- states after transplantations (of organs, bone marrow)
- usage of antiplatelet and anticoagulant drugs (Warfarin, aspirin) concurently with mushrooms possesing strong anticoagulant effect

(e.g. Ganoderma, Auricularia, Shiitake, Chaga)

+ not recommended to use these mushrooms in pregnant women during few last weeks before (expected) delivery

n pregnancy & in women willing to conceive)

usage of Auricularia (Jew's ear, wood ear, jelly ear, heimuer) ...avoid also Asia-style dishes & cuisine where it is often included

don't mix Coprinus comatus (shaggy mane) with alcohol (for +/- 40 hours)

Generally: mushroom nutrition is safe

- all given mushrooms are non-toxic
- majority of them can be used long-term & in higher doses

With caution

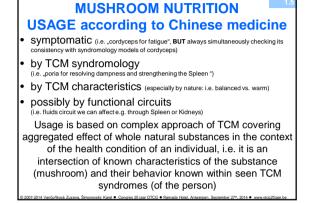
- in people on multiple and combined treatment with Western medicines
- when incidental effects: in 2 5 % of users might occur stomach discomfort (mostly mild & short-term, related to detoxification effect). If longer than 5 days, please discontinue supplementation.
- incidental allergic reaction for given mushroom (relationship could be tested by repeated discontinuation of supplementation)

MUSHROOM NUTRITION USAGE according to Western medicine

- symptomatic (i.e.. "oyster mushroom for cholesterol", "cordyceps for fatigue")
- for constituents (i.e., micro- a macroelements, enzyme activity)
- possibly also by the effect on functional circuits (but WM either doesn't have its own data/research or is not regarding it as generally credible) Usage in WM is limited:
 - * by approaching truly natural and whole food representatives through its single constituents
 - * by only "partial" knowledge of a role(s) of such constituents in living organism.

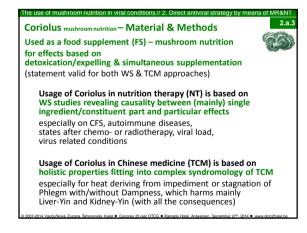
not even mentioning individualized living human being

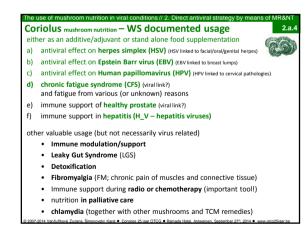
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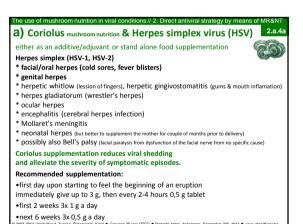


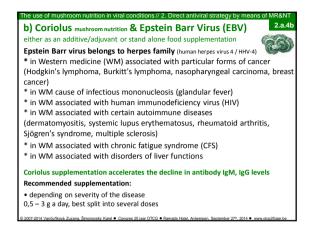
Mushroom	AVP	Suitable terrain & biomedical conditions
Auricularia auricula (heimuer-kikurage)		dry cough, dry stools, pale complexion, stiff tendons
Agaricus blazei (jisongrong-himematsutake)	0	BIG sensitivity to cold, lower backache, cold and weak knees or legs, early-morning diarrhea, slight abdominal distension, indigestion of cold or raw food
Inonotus obliquus (baihuarong) - chaga		purple lips, purple nails, purple tongue
Cordyceps sinensis (dongchongxiacao-tochukaso)	0	sensitivity to cold, lower backache, cold and weak knees or legs, male infertility (low sperm count, low libido), depression, tiredness, apathy // (males < 50)
Coriolus/Trametes versicolor (yunzhi-kawaratake)	000	feeling of heaviness, feeling of oppression of the chest // fatigue (from unknown reasons)
Ganoderma lucidum (lingzhi-reishi)	00	palpitations, anxiety, insomnia, dream-disturbed sleep, dizziness, fatigue, histamine-mediated allergies // females
Grifola frondosa (huishuhua-maitake)	0	diabetes II type, indigestion // males; obese
Hericium erinaceus (houtougu-yamabushitake)		gastric pain (ulcers), inflammation, brain support, indigestion // managers
Lentinula edodes (xianggu-shiitake)	0	propensity to catch colds, fatigue, indigestion // youngsters, elderly
Pleurotus ostreatus (pinggu-hiratake)		cholesterol, stiff tendons, spasm
Polyporus umbellatus (zhuling-chorei)	0	BIG retention of fluids (esp. lower extremities) - diuretic
Poria cocos (fuling-bukuryo)	0	retention of fluids, mild diuretics for minor swellings (irrespective of the location), loose stool

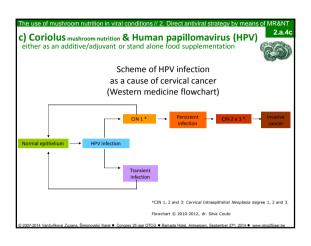


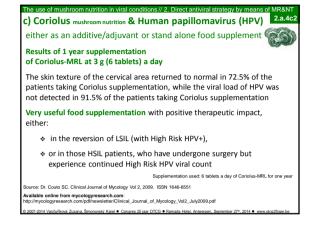


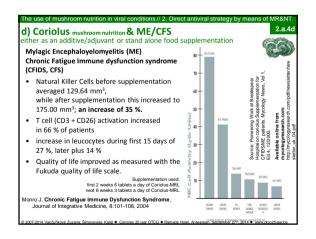




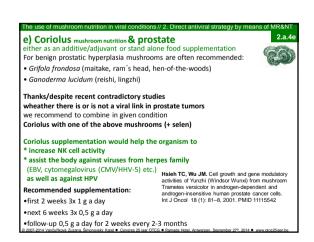


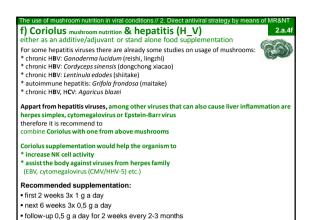












The use of mushroom nutrition in viral conditions // 2. Direct antiviral strategy by means of MR&NT Coriolus - selected references 2.a.5

munomodulatory, immunostimulative and adaptogenic effect

- Abascal K, Yarnell E. A Turkey Tails Polysaccharide as an Immunochemotherapy Agent in Cancer. Alternative And Complementary Therapies. 2007, vol 13; number 4, pages 178-182
- Bastos G. Mushroom Nutrition as Immunonutrition in Cats and Dogs. Mycology News, vol. 1, ed
 9, 2004
- Catita J. The Use of Coriolus-MRL Supplementation in Lung Cancer Patients Undergoing Radiotherapy. Mycology News, vol 1, ed 4, 2000. Aneid Press
- Han SS, Cho CK, Lee YW, Yoo HS. Antimetastatic and Immunomodulating Effect of Water Extracts From Various Mushrooms. Journal Of Acupuncture And Meridian Studies, 2009, vol 2; number 3, pages 218-227.
- Chu KKW, Ho SSS, Chow AHL. Coriolus versicolor: a medicinal mushroom with promising immunotherapeutic values. J Clin Pharmacol. 2002, Sep; 42(9):976-84.
- Lee CL, Sit WH, Jiang PP, So IW, Wan JM. Polysaccharopeptide mimics ciclosporin-mediated Th1/Th2 cytokine balance for suppression of activated human T cell proliferation by MAPKp38 and STATS pathways. J Pharm Pharmacol. 2008 Nov;60(11):1491-9, PMID: 138971-0.
- Mitomi T, Tsuchiya S, Iijima N, Aso K, Suzuki K, Nishiyama K, et al. Randomized, controlled study
 on adjuvant immunochemotherapy with PSK in curatively resected colorectal cancer. Dis Colon
 Rectum. 1992;35:123–30.
- Monro J. Coriolus: Chronic Fatigue Immune Dysfunction Syndrome, Journal of Integrative Medicine, 8:101-108, 2004

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The use of mushroom nutrition in viral conditions // 2. Direct antiviral strategy by means of MR&N

Coriolus - selected references II

Antiviral (HPV, EB...), apt antitumor activity I

- Borisov S. Coriolus versicolor Assessment of the Effects on Patients Infected with Low-risk and High-risk HPV Subtypes. Clinical Journal of Mycology, Vol. 3, 2012 Jan. ISSN 1646-6551.
- Colins RA, Ng TB. Polysaccharopeptide from Coriolus versicolor has potential for use against human immunodeficiency virus type 1 infection. Life Sci. 1997;60:PL383-7.
- Couto JS. Evaluation of Coriolus versicolor Supplementation in LSIL HPV Patients. Townsend Letter Fo Doctors And Patients. 2006, Numb 280, pages 77-81.
- Couto JS. da Silva PD. Coriolus versicolor Supplementation as Immunonutrition in HPV Patients with Cervical Lesions (LSIL). Clinical Journal of Mycology. 2009 vol 2, ed 2
- Ebina, T., K. Tsukada, K. Umezu, M. Rose, K. Tsuda, H. Hatta, M. Kim, and T. Yamamoto. Gastroenteritis
 suckling mice caused by human rotavirus can be prevented with egg yolk immunoglobulin (IgY) and
 treated with a protein-bound polysaccharide preparation (PSK). Microbiol. Immunol. 34:617-629.
 1990.
- Fisher M, Yang, LX. Anticancer effects and mechanisms of polysaccharide-K (PSK): implications of cancer immunotherapy". Anticancer research 22 (3): 1737–54. 2002. ISSN 0250-7005. PMID 12168863
- French A. Coriolus versicolor Supplementation for Recurrent Herpes Simplex. Clinical Journal of Mycology. February 2007 Volume 2, Edition 1.
- Hsieh TC, Wu JM. Cell growth and gene modulatory activities of Yunzhi (Windsor Wunxi) from mushroom Trametes versicolor in androgen-dependent and androgen-insensitive human prostate cancer cells⁸, Int J Oncol 18 (1): 81–8, 2001. PMID 11115542

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The use of mushroom nutrition in viral conditions // 2. Direct antiviral strategy by means of MR&NT Coriolus - selected references III Antiviral (HPV, EB...), apt antitumor activity II Karmali A, Bugalho A, Fernandes T. Coriolus versicolor Supplementation in CIN-I (LSU) HPV Infection: Mode of Action. Clinical Journal of Mycology, vol 2, ed. 1. 2007 Martinez MC. Testing Epstein-Barr Virus while using Coriolus versicolor Supplementation for Chronic Fatigue Syndrome. Mycology News, Volume 1, Edition 6. 2002. Monro J. Coriolus: Chronic Fatigue Immune Dysfunction Syndrome, Journal of Integrative Medicine, 8:101-108, 2004

- Wong CK et al. Immunomodulatory effects of yun zhi and danshen capsules in health subjects a randomized, double-blind, placebo-controlled, crossover study. Int Immunopharmacol 2004; 4(2): 201-12.
- Wong CK et al. Immunomodulatory activities of Yunzhi and Danshen in post-treatment breast cancer patients. Am J Chin Med 2005; 33(3): 381-95.
- Wu JM. et al. Cell growth and gene modulatory activities of Yunzhi (Winsor Wunxi) from mushroom Trametes versicolor in androgen-dependent and androgen-insensitive human prostate cancer cells. Int. J. Oncol.18, 81-88 (2001).
- Zhou XW, Hua J, Lin J, Tang KX. Cytotoxic activities of Coriolus versicolor (Yunzhi) extracts on human liver cancer and breast cancer cell line. Afr J Biotechnol 6, 1740-43. 2007

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The use of mushroom nutrition in viral conditions // 2. Direct antiviral strategy by mean Ganoderma mushroom nutrition & antiviral properties

either as an additive/adjuvant or stand alone food supplementation

As for antiviral properties is

Ganoderma similar, but less powerful than Coriolus

In specific viral conditions Ganoderma can be preferred to Coriolus,

especially when accompanied by:

•asthma, bronchitis, allergy (great in histamine mediated a.!)

•cardiovascular disease (hypertension, blood clotting, angina pectoris, atherosclerosis, high cholesterol – all this thanks to triterpens and sterols)

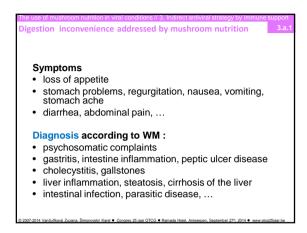
- •diabetes (DM2), gout (in gout preferably with Poria or Polyporus)
- hepatitis
- palpitation
- breathlessness, short breath
- •insomnia, mental restlessness
- Cough, dizziness, vertigo, flashing lights/floaters in the vision

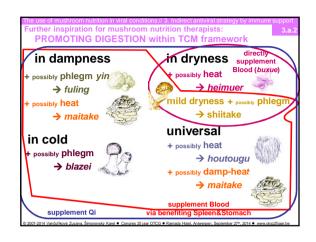
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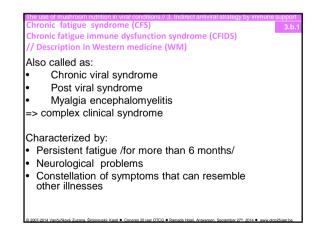
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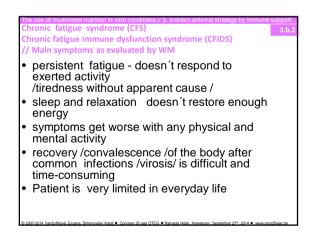
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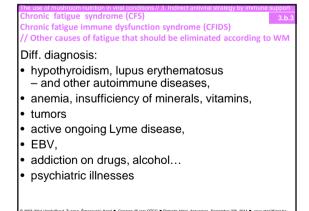












Carrolle Sweeting

Chronic fatigue syndrome (CFS)
Chronic fatigue immune dysfunction syndrome (CFIDS)

// Minor symptoms II – as evaluated by WM

Insomnia
Irritation, nervousness, changes in mood

Low concentration, poor memory

Digestive problems, allergic pr.

Symptoms appear suddenly /after viral inf./

Symptoms are showing deregulation of immune, neurohumoral and digestive systems

Chronic fatigue syndrome (CFS)
Chronic fatigue immune dysfunction syndrome (CFIDS)
// Objective criteria (symptoms) – as evaluated by WM

Low-grade fever /37-38 degrees/

Repeated pharyngitis /inflammation of the throat/

Palpable and sensitive lymph nodes

Chronic fatigue syndrome (CFS)
Chronic fatigue immune dysfunction syndrome (CFIDS)
// Diagnosis in Western medicine
.... difficult, cannot be determined by objective examination

Dg:

2 main + 6 minor symptoms +2 objective criteria,
or

2 main + 8 minor s.

Chronic fatigue syndrome (CFS)

Chronic fatigue immune dysfunction syndrome (CFIDS)

// Causes of CFS from the view of WM

pollution of our environment /chemicals, heavy metals,../
stress, emotions
infections, viral load (EBV, CMV, Herpes simplex, borrelia, chlamydia...)
metabolic and genetic defects
bad nutrition + life style...

Chronic fatigue syndrome (CFS)
Chronic fatigue immune dysfunction syndrome (CFIDS)
// Case study I /A- Girl, 18 y.o., student

• Girl, 18 years old, excellent, responsible student

• She suffered from fatigue for 2-3 years

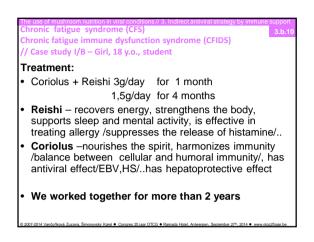
• Headache, muscle, joint pain, sore throat, low-grade fever

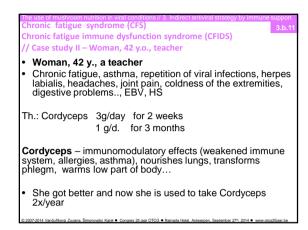
• Sometimes insomnia, dizziness, herpes labialis

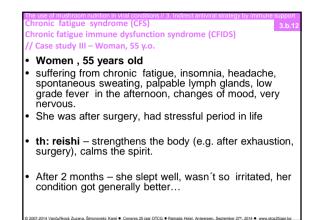
• Gastrointestinal weakness, stomachache, nausea, decrease of appetite, changing between constipation a. diarrhea, sweating during the day /spontaneous sw./, allergy

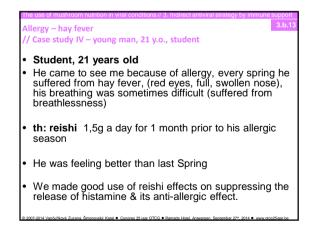
• Blood tests showed high antibody levels against EBV, borrelia

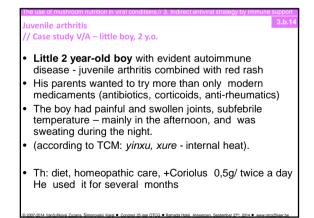
• High levels of ALT, AST 2x, IgE

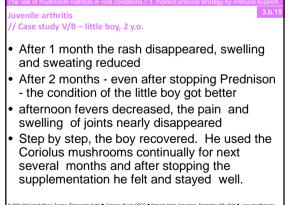


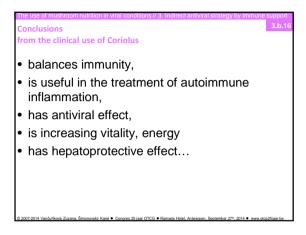




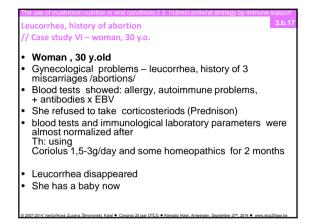


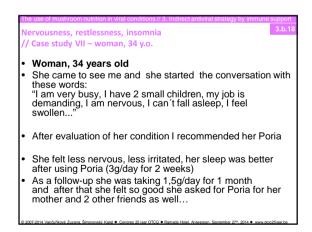


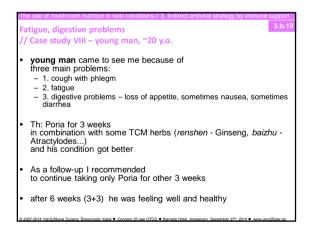


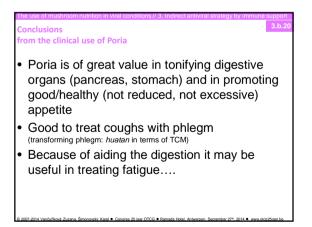










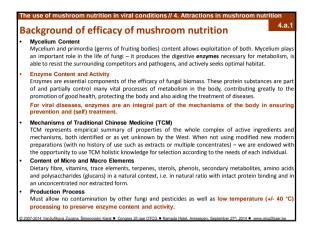


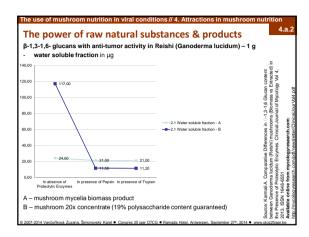
Fatigue, digestive problems
// Case study IX – boy, 12 y.o.

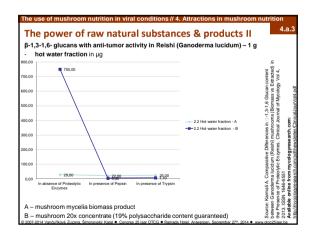
• Boy, 12 y.o.

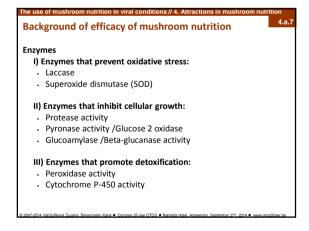
• Problems: nausea, regurgitation, loss of appetite, stomachache
+ all symptoms getting worse with stress
• Problems started when he changed his school
• Relationships among schoolmates were bad

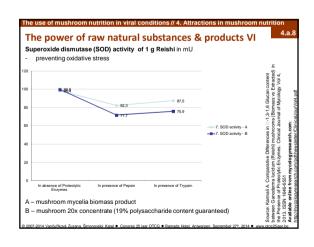
• Th: long-term use of Hericium proved to be effective

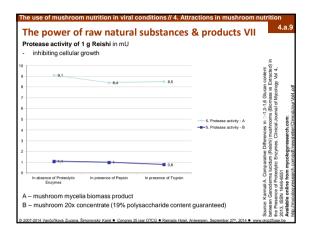


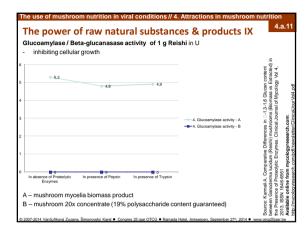


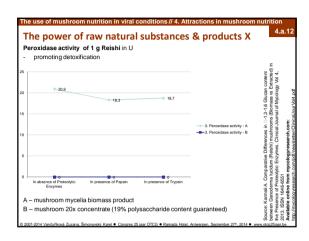


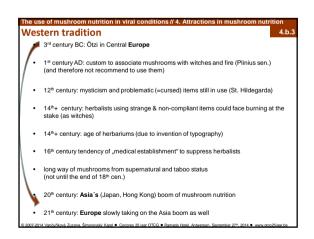
















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