

TCM view of health

Health means to maintain the wholeness and harmony of organism which depends on:

- dynamic ballance of YIN and YANG
- correct coordination and harmonious cooperation of 5 ZANG and 6 FU organs and their functions
- harmony between QI and XUE

TCM and mushroom nutrition

Most fungi have:

- sweet taste
- neutral character
- tropism mostly to meridians of Spleen, Stomach, Liver and Kidnevs
- in spite of this, they all have individual specific effects on YIN or YANG, QI and blood, JING essence, some of them can rectify digestion, some of them solve phleam ...

bagang eight simple TCM criteria to approach mushrooms

yang
external (biao)
heat (re)
full (s <i>hi</i>)

Application of fungi in TCM

TCM places most of the fungi in the topmost category of remedies which can be taken for a long time in high doses with no adverse effects.

Goals of treatment by mushroom nutrition:

- to establish the balance of YIN and YANG
- to support production and circulation of QI-XUE, restore the JING essence

(=> chiefly: to strengthen the function of spleen and Kidneys)

- to clear and protect the Liver
- to remove the blockage of meridians and eliminate TAN

Mushrooms, strong possibilities in TCM and everyday nutrition // Table of contents

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2. The Role of Enzymes in MN

3. The Benefits of MN in Specific Syndromes in TCM
a) The role of MN in backing acupuncture for immune support (var.mushr.)
b) The role of MN in nourishing the Earth (Spleen & Stomach)
i. tool for TCM constitutional support (poria,hericlum,maitake,shiitake,blazei)
ii. tool for TCM pathologies (various mushrooms)
c) The role of MN in Viral Conditions (coriolus, ganoderma)
e) The role of MN in Chronic Fatigue (various mushrooms)

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a) Background of efficacy of MN
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Acupuncture and mushroom nutrition

ACU

- · Part of TCM
- · Curative and preventive method with thousands of years of history
- Acting outside the body in order to harmonize the organism Triggers, controls and speeds up the physiological functions of the hody
- · A good tool for dealing with acute conditions

Mushroom Nutrition

- . One of the oldest forms of life on Earth
- Used in Asia for thousands of years to maintain health, cultivate longevity and purify the body
- "Broad-spectrum" effects (e.g. in comparison with herbal mixtures of TCM)
- · A good tool to assist in sub-acute and chronic conditions

Positive aspects of combining Acupuncture and Mushroom nutrition

Selected

effects of combining ACU with mushroom nutrition:

- · Supporting the basic curative intent of ACU
- · Treating accompanying problems untreated by ACU
- Reinforcing and supplementing QI and blood (= adaptogenic effects) as an energy reservoir for further effects of ACU
- · Using detoxifying effects of mushrooms
- Overlap of immediate (ACU) and longer-term therapeutic effect (supplementing with mushrooms)
- Safety (very low or no adverse effects of both methods)

ACU for immune support

ACU – combination of *SHU* and *MU* points of the respective organs

- Using the *yuan* point of the respective yin meridians (possibly in combination with *luo* points)
- · Points of specific effect
- BL 13, 20, 21, 23
- LU 1, LR 13,CV 12, GB 25
- Yuan points of yin meridians = Earth points LU 9, SP3, KI 3,
- ST 36, SP 6.....CV 4,6,8,17, LU 5, ..LI 4,

Mushroom nutrition in acupuncture for immune support

Most of the traditional medicinal mushrooms can be regarded as supporting or harmonizing the immune system, namely in particular:

- Cordyceps sinensis, Caterpillar Fungus
- Ganoderma lucidum, Polypore Mushroom, RFISHI
- · Agaricus blazei, Agaricus Blazei Mushroom
- Poria cocos, Indian Bread
- · Lentinula edodes, SHIITAKE
- Coriolus versicolor, Turkey Tail
- · Grifola frondosa, Hen of the Woods, MAITAKE

Weakened Immune System -

Selection of Mushrooms suitable for combination with acupuncture I.

 exhaustion, conditions after delivery and surgery, before and after chemo- or radiotherapy

=> Ganoderma (REISHI)

II. Asthmatic problems with dry cough, cold limbs, **cold** and weak loin (excess and heat in the upper body, insufficiency and cold in the lower body) => **Cordyceps**

III. Fatigue, sensitivity to cold... Blazei

Weakened Immune System -

Selection of Mushrooms suitable

for combination with acupuncture II.

IV. Digestive problems, belching, heartburn, gastritis, also in relation to stress => Hericium

V. Fatique, loss of appetite, soft stool

- + Presence of dampness, nervousness, insomnia, without heat => Poria
- + Clearing damp heat => Maitake
- + Allergies, shortness of breath => Shiitake
- + Lipid metab. disorders, spasm => Pleurotus (Oyster)

VI. Heat in blood, **night sweats**, autoimmunity, or during radio or chemotherapy => **Coriolus**

Mushrooms, strong possibilities in TCM and everyday nutrition KdG, Antwerpen, September 26th, 2014

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Possible Use of Mushrooms for backing acupuncture According to WM I.

Autoimmune diseases

- · Coriolus 3x2 tbl (á 500 mg) 2 months alternately
- Ganoderma 3x1 tbl

Balanced immune support and anti-stress effect – combinations of various kinds of mushrooms with overlapping effects

 Combination Ganoderma+Cordyceps+Shiitake (e.g. TRITON-MRL)

Blood-thinning effect

Ganoderma, Cordyceps, Pleurotus, Auricularia

Possible Use of Mushrooms for backing acupuncture According to WM II.

Detoxification of heavy metals, chemicals (occupation, dental interventions, medications)

Ganoderma, Oyster Mushroom

Support of the psyche

· Ganoderma, Poria, Hericium, Cordyceps

Liver protection

· Ganoderma, Coriolus, Cordyceps

HPV viruses, repeated herpes labialis, genitalis, EBV, CMV

- Coriolus 2 weeks 2x3 tbl., 3. 8. week 3 tbl./day
- Prevention of uterus ca in women over 35 years 3 g/day 0.5 1 year

Supplementation Schedules

Adults

- 3 6 q/day in 1 3 doses
- Preventively 1 3 g/day

 Children

Children

- 1 3 years 0.150 0.750 g/day
- 3 6 years 0.250 2 g/day
- > 6 years 0.500 3 g/day

Some mushrooms acutely up to 12 – 15 g (Ganoderma, Shiitake) (for mushroom poisoning up to 25 g/day).

This dosage is for the dried form, when taking raw mushrooms it is necessary to increase the dosage. (Dried:raw ratio = 1:10).

Supplementation Schedules— Variants of Administration

Chronic Diseases

- 1st 15th day: 2x3 tbl. (á 500mg) = 3 g
- 15th 90th. day 3 tbl. (1.5 g) before breakfast

Athletes

- 14 days before the race
 3 g Coriolus + 3 g Cordyceps
- When training
 dose = 1.5 g/day
- Another variant: only Cordyceps 1.5 3 g/day over a long period, 3 g/day 14 days before the race

Weakened Immune System and Atopic Diseases

Roots of these type diseases according to TCM

. Vacuity of Lungs, Spleen and Kidney

•The aim is to supplement the vacuity once the acute condition has been solved

Basic vacuity syndromes:

A.Vacuity of Lung-Qi or Lung-Yang (feiqixu, feiyangxu) B.Vacuity of Lung-Yin (feiyinxu)

C.Vacuity of both Spleen- & Stomach-Qi (piwei qixu)
D.Vacuity of Spleen-Yang (piyangxu)

E.Vacuity of Kidney-Yin & Kidney-Yang (shenyinxu, shenyangxu)

A. Vacuity of Lung-Qi (feigixu)

Symptoms: frequent infections, cough, shortness of breath, weak voice, spontaneous sweating, fatigue, pale face, fear of cold

- ACU: BL 13, 43, LU1, LU 9, CV 6, CV 17, ST 36, GV 14
- Moxa: no tan phlegm: CV 4,6,8;
 in presence of phlegm +ST 40
- + mushrooms: Ganoderma, Cordyceps, Blazei,
- Condition often connected with vacuity of Lung- and Kidney-Yin (feishen yinxu) + Coriolus

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Weakened immune system – basic vacuity syndromes: feiqixu

LINGZHI – REISHI

Ganoderma lucidum, Polypore Mushroom

According to TCM

- Flavour: sweet and bitter, nature: mild
- Tropism: Heart, Lungs, Spleen
- Replenishes insufficiency, reinforces Spleen-Qi (mental and physical fatigue, soft stool, loss of appetite, paleness, ...)
- Reinforces Kidney-Essence, nourishes the Heart, calms the Spirit (palpitations, insomnia, forgetfulness)
- Used for vacuity of Lung-Qi with phlegm (feiqixu+tan)

(stops cough, relieves breathlessness, phlegm particularly of the cold type /sparse, abundant, .../)

LINGZHI – REISHI

ned immune system - basic vacuity syndromes: feiqixu

LINOZI II – IXLISI II

Ganoderma lucidum, Polypore Mushroom

According to WM

- Supports the immune system, immunostimulant, antiviral and antibacterial effect (supports macrophage activity, regulates the function of T and B lymphocytes),
- Suppresses the release of histamine, anti-allergic and anti-inflammatory effect, ...
- · Strengthening the body after exhaustion, surgery
- · Detoxification of the liver, heavy metals
- Support of conventional therapy of DM, gout, ...

According to TCM

Flavour: sweet, nature: warm

DONGCHONGXIACAO - TOCHUKASO

Cordyceps sinensis, Caterpillar Fungus

- Tropism: Lungs, Kidney
- Tonifies Qi, tonifies Kidney-Essence and defensive qi (weiqi)
- Nourishes Lung-Yin and Kidney-Yang, transforms phlegm and stops cough, relieves breathlessness, supports sexual function, enuresis, ...

lushrooms, strong possibilities in TCM and everyday nutri

DONGCHONGXIACAO - TOCHUKASO

Cordyceps sinensis, Caterpillar Fungus

According to WM

- Immunomodulatory effects in weakened immune system and allergies (eczemas, asthma)
- Positive effect in bacterial infections (with streptococci, pneumococci, staphylococci...)
- Usable in autoimmune and neoplastic diseases (stimulates active leucocytes, reducing side effects of radiotherapy and chemotherapy)
- · Promoting metabolism and liver functions
- · Anticoagulant effect

Veakened immune system – basic vacuity syndromes: feiqixu

JISONGRONG – HIMEMATSUTAKE

Agaricus blazei, ABM

According to TCM

- Flavour: acrid and sweet, nature: warm
- Tropism: Stomach, Spleen, Intestines
- Strengthens the body, replenishes insufficiency in cold syndromes
- Transforms phlegm, stops cough, relieves spasm
- · Cold pain in loin and knees
- · Promotes intestinal and stomach function

Mushrooms, strong possibilities in TCW and everyday i

JISONGRONG - HIMEMATSUTAKE

Agaricus blazei, ABM

According to WM

- Strengthens weakened immune system (high betaglucan content).
- Supports immunocompetent cell activity (NK, T and B lymphocytes, macrophages, LAK, ...)
- Can be used for autoimmune and allergic reactions, neoplastic diseases (stimulating production of cytokines – interferon, interleukin...)
- Supports good condition of bones (B1,B2, ergosterol)
- Anti-oxidant effects
- (enzymatic activity, superoxide dismutase...)

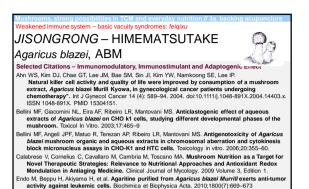
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B. Vacuity of Lung-Yin (feiyinxu)

Symptoms: loss of weight, tidal fever in the afternoon and evening, heat at night and night sweats, heat in palms and soles, heat in chest, thirst, flushed cheeks especially in the afternoon, dry mouth, dry cough, dense and less phlegm, possibly breathlessness, frequent infections, dry stool, vertigo, scanty dark-yellow urine.

- . ACU: BL 13, BL 23, GB 25, LU 5, LU 10, SP 6, ..
- . + mushrooms: Coriolus

clears heat caused by insufficiency of yin (of the liver and kidney)

Cordyceps

invigorates lung yin and kidney yang

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Veakened immune system - basic vacuity syndromes: feiyinxu

YUNZHI – KAWARATAKE Coriolus versicolor, Turkey Tail

According to TCM

- Flavour: sweet, nature: slightly warm
- · Tropism: Spleen, Heart
- Transforms phlegm and regulates dampness (+ slightly strengthens the Spleen in terms of phlegm)
- · Treats conditions of vacuity of Liver- and Kidney-Yin
- Clears heat (esp. xure), nourishes the Spirit
- Corrects Lung dysfunction (cough, breathlessness, frequent infections), stagnation of tan phlegm in the meridians, Lungs, ...
- Fatigue of various causes

Weakened immune system - basic vacuity syndromes: feiyinxu

YUNZHI – KAWARATAKE Coriolus versicolor, Turkey Tail

According to WM

- Observed in association with tumours, HIV (AIDS), EBV, HS, HPV, CMV, CFS, autoimmune diseases, with regeneration in athletes, but also in patients after chemo- or radiotherapy
- · Detoxifying and hepatoprotective effects
- · Increased intestinal permeability syndrome
- Also affects TH1-TH2 shift (chronic diseases, balance between cellular and humoral immunity, NK cell activity, ...)

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Weakened immune system - basic vacuity syndromes: feiyinxu

YUNZHI – KAWARATAKE Coriolus versicolor, Turkey Tail

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Weakened immune system - basic vacuity syndromes: feiyinxu

YUNZHI – KAWARATAKE

Coriolus versicolor, Turkey Tail

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YUNZHI - KAWARATAKE

Coriolus versicolor. Turkev Tail

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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, 200

C. Vacuity of Spleen-Qi (pigixu) often together with vacuity of Stomach-Qi => piwei qixu

Symptoms: physical and mental fatigue, loss of appetite, loose stools, undigested food, reluctance to talk, bad taste perception, prone to chest congestion, feeling of heaviness of the body and limbs, swelling, dull vellow face, anaemia

- ACU: BL 20,21, LR 13, BL 17, CV 4,6, CV12, ST 36. SP 6. Moxa. only with no phleam
- + mushrooms: Ganoderma (REISHI). Poria. Shitake, Pleurotus (Oyster), Coriolus (Turkey Tail), Blazei, Hericium (Monkey Head), Maitake

- hasic vacuity syndromes: nigizu niwei gizu

FULING - BUKURYO

Poria cocos. Indian Bread

According to TCM

- Flavor: sweet, bland; nature: mild
- Tropism: Heart, Spleen, Kidney
- Strengthens spleen function, drains water
- Discharges pathological dampness, calms the Spirit

(symptoms following from insufficiency of splee states of exhaustion, loss of appetite, diarrhea,

- Neither warming or cooling effect
- Presence of dampness indicated by so called in TCM as fuling tongue so Called III Tork as Talking Longuist coating is neither thick white (cold), nor yellow (heat) can be more greasy enlarged tongue with damp body, possibly slightly pale and with teeth marks along the side

Veakened immune system – basic vacuity syndromes; pigixu, piwei gixu

FULING - BUKURYO

Poria cocos. Indian Bread

According to WM

- Tonifying, immune stimulating effect (supporting macrophage and lymphocyte activity),
- By promoting urination treats swelling, chest congestion, diarrhoea (but does not treat dehydration)
- · Used for nervousness, insomnia, exhaustion, palpitations

Veakened immune system – basic vacuity syndromes: pigixu, piwei

XIANGGU - SHIITAKE Lentinula edodes, Shiitake

According to TCM

- Flavour: sweet: nature: mild
- · Tropism: Spleen, Stomach, Lungs
- Tonifies ai and blood, strengthens the Spleen. Stomach, Lungs and Kidney function
- Moistens dryness, transforms phleam
- Used for fatigue, cough, frequent colds, allergies, and possibly vertigo

akened immune system – basic vacuity syndromes; pigixu, piw

XIANGGU – SHIITAKE Lentinula edodes. Shiitake

According to WM

- Immunostimulant, immunomodulatory, anti-tumor effects (stimul. macrophage phagocytosis, NK activity, T helper cells....
- Antiviral, antibacterial, antiparasitic activity (herpes v., influenza v., Staph, E.coli, ...)
- Reducing allerg. react., used for cough, breathlessness
- Stated harmonization of the hypothalamic-pituitary-adrenal axis
- Used to prevent liver and cardiovascular diseases, metabolic effect



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ed immune system - basic vacuity syndromes: piqixu, piwei qixu

PINGGU - HIRATAKE Pleurotus ostreatus, Oyster Mushroom



According to TCM

- Flavour: sweet, nature: slightly warm
- · Tropism: liver, stomach, spleen
- Replenishes the spleen and stomach, drains dampness, tonifies qi, discharges wind cold
- Strengthens the vessels, loosens the tendons
- Effective against parasites

- basic vacuity syndromes: piqixu, piwei qixu



Pleurotus ostreatus, Oyster Mushroom

According to WM

- Immune support (ATB pleurotin)
- · Immunomodulatory, anti-tumour effects
- Source of minerals and vitamins (folic acid(!), ...)
- Positive effect on skin allergies
- Promoting liver functions and supporting the cardiovascular system, interferes in cholesterol metabolism (prevents accumulation in the liver, increases transport in lipoproteins, ...)

HOUTOUGU - YAMABUSITAKE Hericium erinaceus. Monkey Head

According to TCM

- · Flavor: sweet, insipid: nature: mild
- Tropism: Liver, Kidney
- Beneficial to the five *zang* organs, tonifies the spleen, supplements *qi*, aids digestion, aids the middle burner (fatigue, loss of appetite, diarrhea, frequent infections,
- Relieves inflammation, cleanses, transforms
- Calms the spirit
- Harmonizes the Stomach (abdominal pain and stomachache, belching, gas pains, burning sensations, ...)

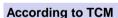
eakened immune system – basic vacuity syndromes; pigixu, piwei gixu

HOUTOUGU - YAMABUSITAKE Hericium erinaceus, Monkey Head

According to WM

- Gastritis and intestine inflammations, peptic ulcer disease, chronic hepatitis (symptoms related mainly to psyche)
- Preventive protection from adverse effects of fatty food, stress, weak immune system
- Tumour diseases, degenerative nervous diseases
- Suitable for combinations of stress and mental exhaustion with digestive problems (see the above description)

HUAISHUHUA - MAITAKE Grifola frondosa. Hen of the Woods



- · Flavor: sweet: nature: mild
- Tropism: Lungs, Kidney, Large Intestine
- Supplements qi and strengthens the Spleen
- Replenishes insufficiency and supports the beneficial, clears heat, filters out dampness
- Used for symptoms such as loss of appetite, physical and mental exhaustion, distended abdomen after a meal, malodourous diarrhea, ...

Grifola frondosa. Hen of the Woods

According to WM

- Immune support (betaglucans, activity of macrophages, NK cells, cvtotoxic T cells)
- Supporting weight regulation
- Regulating blood pressure, level of sugar, fat,
- Natural source of vitamins and minerals





Weakened immune system – basic vacuity syndromes: piyangxu, shenyangxu

D. Vacuity of Spleen Yang (piyangxu)
 Vacuity of Kidney Yang (shenyangxu)

Spleen-Yang is closely related to Kidney-Yang; concurrent vacuity of Spleen- and Kidney-Yang is common (pishen yangxu)

Symptoms: cold body, limbs, sensitivity to cold, cold sensation and abdominal pain, loin pain, weak knees, fatigue, watery diarrhoea, enteric diarrhoea, abundant pale urine, nocturia, swelling, white face, ...

• ACU – tonif. BL 20, 23, CV 4, 6, 12, GV 4, ST25/diarrhoea/, ST36, KI 3

• moxa shu points, CV 4, 8

• + mushrooms – Blazei, Cordyceps,Poria (possibly Ganoderma)

F. Vacuity of Kidney-Yin (shenyinxu)

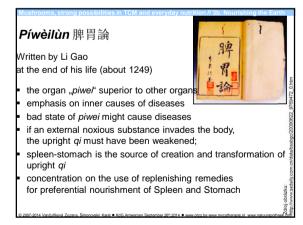
Symptoms: general from insufficiency of yin: tidal fever, night sweats, dry mouth, dry stool, ... pain, weak loin and knees, urinary disorders, scanty dark-yellow urine

• ACU – BL23, CV4, KI 3,6, SP 6

• + mushrooms – Coriolus (possibly Maitake)







Spleen - pí 脾 Selection of TCM postulates on Spleen: governs movement and transformation (pi zhu vunhua) hates dampness and likes dryness (pi e shi er xi zao) governs blood production and control (pi zhu shengxue tongxue) governs upbearing of the clear (pi zhu shengging) its emotion is contemplation (si wei pi zhi zhi) its qi is connected with Indian summer opens into mouth (pi kaiqiao yu kou) its fluid is saliva (xian wei pi zhi ye) governs the flesh and four limbs (pi zhu jirou sizhi) stores intellect yi (pi cang yi) governs movement of Stomach liquid (pi zhu wei weixingqi jinye) governs center-earth (pi zhu zhongtu) governs later heaven (pi zhu houtian) stores construction (pi cang ying)

Stomach - wèi 胃

Selection of TCM postulates on Stomach:

- governs intake and storage of food and water (wei zhu shouna shuigu)
- governs decomposition of food and water (wei zhu fushu shuigu)
- governs passing and descent (wei zhu tongjiang)
- is the source of fluids

Relationships Spleen-Stomach - píwèi 脾胃

SPLEEN STOMACH: *vin* organ yang organ

quarantees ascent quarantees descent

ikes dryness, dislikes dampness likes dampness, dislikes dryness when damp, does not lift and when dry, does not send down

transform (to intestines)

easily susceptible to emptiness easily becomes full susceptible to heat susceptible to cold tendency to *yangxu* tendency to yinxu

Spleen-stomach as the source of post-natal gi pí(wèi) wéi hòutiānzhī běn 脾(胃)为后天之本

The state of *piwei* must be considered even more in the following cases:

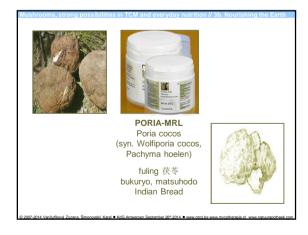
weak constitution excessive activity excessive sexual activity

long-time eating and dietary improprieties

convalescence after injuries with parasites and poisoning

convalescence after (wrong) treatment

Spleen-stomach as the source of post-natal gi pí(wèi) wéi hòutiānzhī běn 脾(胃)为后天之本 Harmful effect of food Disballance of Starving weakening of gixue, general weakness, poor food intake health, tendency to illnesses digestive disturbances, accumulation of dampness, phlegm production, skin eruptions, hemorrhoids, heat Inappropriate too much cold food weakens stomach yang & problems caused by eating habits emptiness and cold (dampness) too much hot food causes stomach heat, injury to jinye excess of overload on spleen and stomach, coagulation of nourishing food dampness into phlegm, rising of inner fire one-sides tastes overfilling of weakening of zang and their functions Excess of alcohol rising of inner heat, phlegm production, weakening of upright qi, qi deficiency damaged GIT, stomach and abdomen pain. Food contamination vomiting, diarrhea, parasites



Taste	sweet, plain
Nature	ballanced
Tropism	heart, spleen, kidneys (lungs, small instestine)
Effects	drains water and eliminates dampness strengthens the spleen, calms the spirit
Indications	difficult urination, phlegm, watery oedema, diarrhea, spleen deficiency with accumulation of harmful dampness, exhaustion, limpness, loose stools, palpitations, insomnia, restlessness, lack of appetite

Application I

- Tonification, anti-tumor and antimutagenous effects - supports macrophages, phagocytes
- arrhythmia
- febrile diseases
- edemas, white discharges in women
- insomnia, nervousness, exhaustion, palpitations, relaxation of tension
- support of digestion diarrhea, loose stools, difficult urination

similarly to other mushroom nutrition, Poria contains polysaccharides, protein bound polysaccharides, triterpenoids, sterols and other substances: especially in connection to tumors;

Application II

- according to research results, Poria especially: - works against tumors by way of stimulating immunological functions, increasing the effectivity of intereron etc.;
- shows antimutagenic activity (in combination with other herbs - e.g. rougui, taoren, baishao, mudanpi...)
- some studies confirm positive effect in viral hepatitis therapy.

Application III – according to TCM

- drains water and eliminates dampness (lishui shenshi)
- problems with difficult urination, phlegm, watery oedemas, diarrhea - drains excessive liquids, though, owing to its ballanced character, does not dry or injure bodily fluids, acts gently towards yin
 - when accumulation of dampness, blockage of urination, phlegm
- may be used regardless of the syndrome character (fullness/emptiness, coldness/heat)
- constitutional use in cases of so-called fuling tongue pointing to dampness of the middle, inner accumulation and stagnation of fluids:
- enlarged tongue, damp tongue body, teeth marks on the edge,
- possibly fat coating



Application IV – according to TCM



possibly in combination with other noxious substances (e.g. phlegm)

- fuling shows a combination of effects ideal for the spleen (strengthening + dampness drainage)
- symptoms of fatique, exhaustion and limpness, thin stools)
- in marked states of fatigue it is necessary to use
- method of "accumulating the earth and controlling of water". i.e. combine fuling with fungi heating the yang (blazei, cordyceps) - white discharge caused by dampness accumulation due to spleen

(in case of combination with heat, cold or kidney weakening must be combined with other herbs - see for example formula shenling baizhu Application IVa – according to TCM fuling = delicate shenling baizhu san ling strengthens the spleen percolates dampness (mildly) drains water harmonizes the stomach calms the shen boosts ai for comparison: lion's mane - houtougu Hericium erinaceus

Application V – according to TCM



calms the spirit (anshen)

- palpitations, insomnia, restlessness, shock
- fuling represents an ideal combination of calming effect with spleen strengthening (inadequate nourishment of spleen and heart causes restlessness)

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Application VI – according to TCM

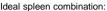
influences the mechanism of water managed by the three burners

- support of functions of transformation, transportation and fluid transformation
- fluids are moved by qi, fluids depend on its mechanism
- supports ascent of the clear (yang) upwards (upper burner)
- protects spleen from dampness (middle burner)
- helps the kidneys in draining water (lower burner)
- auxiliary use to support lymph (x stagnation of turbid dampness)

supports urination

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Application VIa – according to TCM



- drains water
- eliminates dampness
- influences the mechanism of water governed by the three burners
- strengthens the spleen
- transforms phlegm
- calms the spirit

KOPIE

"By treating the spleen other organs can be cured."

Application VII – according to TCM

phlegm

- due to spleen qi deficiency or spleen dampness
- due to kidney deficiency (of yang, yin)
- due to imbalance of the three burners which do not transform and eliminate properly
- due to lung qi deficiency only in combination with other preparations
- overall effect on phlegm rather gentle, constitutional

is not a match to appropriate herbal formulae of TCM (erchentang etc.)

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Tan 痰 - pathology

- Lungs & fluids: NOT descending and dispersing
- Spleen & fluids: NOT transforming and transporting
- Kidneys & fluids: NOT transforming and eliminating
- Liver & ai: NOT securing free flow
- Heart & qi: NOT descending to kidneys
- Three burners & fluids: NOT transforming, transporting, eliminating

Application VIIa – in TČM: tán 痰 - pathology

- Lungs & fluids: NOT descending and dispersing
- Spleen & fluids: NOT transforming and transporting
- Kidneys & fluids: NOT transforming and eliminating
- Heart & qi: NOT descending to kidneys
- Three burners & fluids: NOT transforming, transporting eliminating

Application VIII – according to TCM + acupuncture

Acupuncture support of various effects of Poria

Poria administered with:

- for strengthening the spleen:
 BL 13,20, 21, CV 6, 12,17, SP 3, 6, ST 36... SP9, ST 40
- to transform harmful dampness: SP9, ST 40
- to calm the spirit, sleep support:
 GV20,"the crown", PC6,8 (xin-shen) HT7, BL 15, 17,18,23
 SP6, 10, HT7, BL 17 (blood)
 LR2,3, BL 18,19, PC6, TE 5 (gan-dan)...

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Dosage

- 3 5 g dried or 1 2 g of biomass
- traditional dosage in the form of decoction 10 − 20 g, in case of serious edema up to 30 g
- may be added to food

Rules of application according to TCM

fuling is a part of many formulas improving the state of liver and harmonizing its functions. According to TCM, the liver is connected with anger, inner nervousness, agitation, insomnia and waking up at night, mostly between 1 - 3 o'clock, etc. It is because of this sedative effect that fuling is so beneficial in therapy.

when solving oedemas due to various reasons (spleen weakness, kidney deficiency etc.), we must never omit *fuling* (in formulas) exactly for its ability to eliminate the turbid, pathological fluids.

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Contraindications according to TCM

- we must be very careful in cases of kidney deficiency (dribbling after urination, incontinence of urine) and with cold emptiness of kidneys (nocturnal emissions)
- with spleen deficiency without any signs of dampness do not use on its own for a long period of time, although otherwise it strengthens the spleen
- we must be careful also in cases of yin deficiency without dampness and sinking of the middle qi
- early stages of attack by external wind (common cold, flu)
- do not use together with vinegar (salads, dressings etc.)
- observe the 2-hour interval after meals
- Indicator of dampness tongue: can be safely indicated with fuling tongue

als

Additional dietary information according to TCM

in case of spleen dampness it is necessary to adjust also the diet, i.e. do not consume excessive amounts of:

- cheeses
- vinegar
- bread
- fermented grains and cereals
- alcohol and other fermentation products

General contraindications

one of the most gentle effects among medicinal fungi in general, its use is safe

though in some sensitive individuals there may be very slight adverse effects

(e.g. allergic reaction - skin eruptions, nausea).

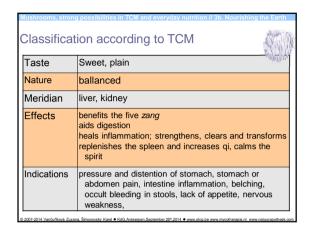


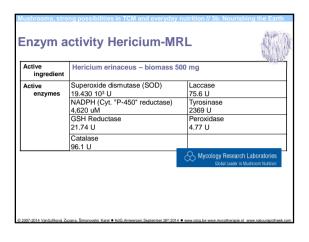


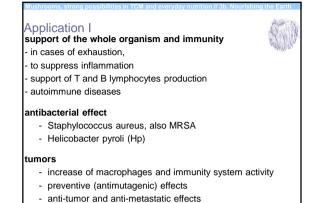
HERICIUM-MRL Hericium erinaceus (syn. Clavaria erinaceus, Dryodon erinaceus, Hydnum erinaceus)

houtougu 猴头菇 yamabushitake 山伏茸 monkey's head, lion's mane, pompom









Application II

support of digestion, liver and stomach

- in cases of digestive problems, support of stomach functions
- in ulcerating diseases stomach and duodenum, chronic gastritis
- preventively as protection from too rich diet and for digestion problems due to stress
- antibacterial effect on Helicobacter pyroli (Hp)
- hepatoprotective effect

lowering of blood sugar, lipids and triglycerides levels

- in case of digestion problems

Application III

support of brain and thinking

- phytosterols erinacines stimulating the growth of neurons (NGF)
- and supporting the production of myelin
- for improvement of cognitive functions (supportively in Alzheimer, Parkinson, Huntington diseases, amyotrofic lateral sclerosis, multiple sclerosis etc.)
- autoimmune diseases

Application IV – according to TCM

harmonization of the middle with clearing of the liver and support of the stomach

- disharmonious stomach (wei bu he)
- liver qi attacks the stomach (ganqi fan wei)
- spleen emptiness abused by Wood (pixu mucheng)
- weak spleen and strong stomach
- stomach heat







Application V – according to TCM



spleen deficiency (piqixu) without dampness

- digestion disturbances, lack of appetite
- fatique

calms the spirit (anshen)

- especially suitable with combinations of digestive problems
- from emotional reasons or combined with these
- support of sleep disturbed by disharmonious stomach

......

Application VI – according to TCM

Ideal stomach combination:

- benefits the five zang organs
- aids digestion
- strengthens, clears and transforms
- heals inflammation
- supplements the spleen, but does not desiccate
- increases qi
- calms the spirit

Complex support of intellect (yi) in combination with fuling.



Application VII – according to TCM + acupuncture Support of the middle burner and spleen

fatigue, lack of appetite, diarrhea ...

frequent ilnesses, phlegm tan...

Hericium administered with:

BL 20,21, LR13,CV 12, SP 3, ST 36, ST 40, In case of diarrhea BL 25. ST 25

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Application VIIa – according to TCM + acupuncture of Stomach harmonization: accumulation disorder

 stomach and abdomen pain, belching, flatulence, sensations of burning ...

Hericium administered with:

- CV12 (CV10,11, 14), ST 36, ST21, BL 21, PC6, SP4 (diarrhea... abdomen cramps)
- ST44, LR2, LI4,11 in case of heat
- ST40, CV 17 (correct circulation of qi, necessary for transformation of tan) - dampness, phlegm.

Application VIIb – according to TCM + acupuncture



Stomach harmonization: stomach heat

 clear the heat, harmonize the middle, support the production of fluids, rectify the flow of qi...

Hericium administered with:

CV 12, PC6, BL 17, 21, ST 36, ST 41,44, SP 4, LI4

Application VIIc – according to TCM + acupuncture

Stomach harmonization: liver attacks stomach, liver *qi* stagnation

Hericium administered with:

LR 2,**3**, 13,14,ST 25, 36, 41, CV12, **GB 34**, 29, LI4, 11, PC6, TE6

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Application VIId – according to TCM + acupuncture Support of thinking and calming the spirit

various neurological disorders, neurological weakness, loss of mental capacity, tremors

Hericium administered with:

GV20, PC6, HT 7, SP6 (ballance of yin/yang)

- + stomach dysfunction: + BL21, ST 36
- + xu of heart, spleen: + BL15.20, SP3
- + xu of kidneys: + BL 15,23 (ballance of heart and kidneys),
- + gixu of heart and gall bladder: +BL15, 19, PC7, GB40
- + ganyang shangkang: +BL18, PC5, LR3

loss of memory - GV20, BL15,20,23, Kl6, GB39 (strengthens the marrow), ST36

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Selected Citation II

Brain and Nerve cell support

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Selected Citation IIa

Brain and Nerve cell support I

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fuling



Ideal spleen combination:

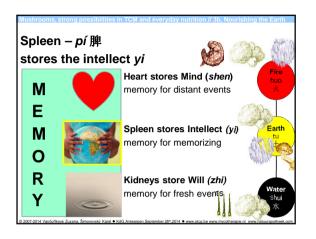
- strengthens the spleen
- calms the spirit
- drains water, supports urination aids digestion
- eliminates dampness
- influences the mechanism of water governed by the three burners
- transforms phlegm

houtouau

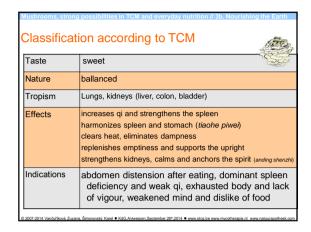
Ideal stomach combination:

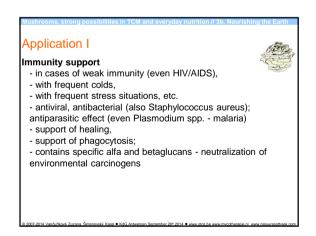
- supplements the spleen
- calms the spirit
- benefits the five zang organs
- increases gi
- strengthens, clears and transforms
- removes inflammation

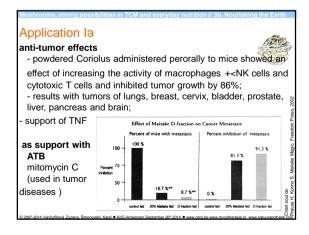
The element of Earth zang/yin transportation and reception, storage transformation of food & decomposition of food ascent of the clear (xin. fei) passage ability and moves the fluids of stomach descent (of the turbid) hericiun zangfu together: postnatal base complement and ballance each other

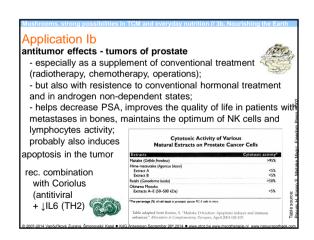










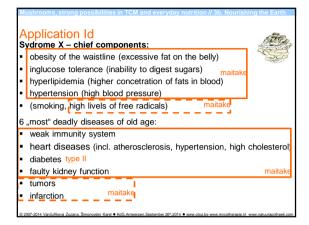


Application Ic

detoxificating effect within the system supports weight regulation

regulation of blood pressure, levels of glucose, insuline. serum and lipids in the liver - influences the levels of

cholesterol, triglycerides and phospholipids. In hypertensive rats blood pressure lowering had been proved, while HDL in plasma remains unchanged; the effect was immediate, was of a short duration and depended on the dosage.



Application II

lowering of blood sugar levels

in non-insulin dependent diabetes (type II)

- natural source of minerals and vitamins contains potassium. Calcium and Magnesium. vitamins B2. B5 (niacine). D2. fibre and aminoacids
- hemorrhoids, gastritis, hepatitis with regard to its complex effect applied in support of conventional treatment
- very popular in Japan:
- dosages of 3-7 grams 3 5× a day conviction
- of preventive and immunostimulating effects especially in:
- diabetes, obesity,
- high blood pressure, atherosclerosis, thrombosis,
- vitiligo
- cancer, and as support with chemotherapy
- support of CNS

Application III – according to TCM

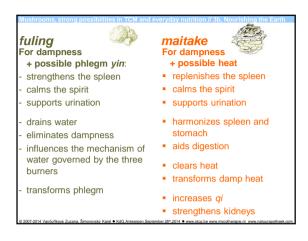
- spleen deficiency and weakening of gi
- weakening of mind
- harmonizes spleen and stomach (tiaohe piwei) distention of abdomen after eating, exhausted body, lack of appetite,
- fatigue after eating
- weight regulation with no risk to health support of transformative function of the spleen, support of diaestion
- elimination of damp (heat)

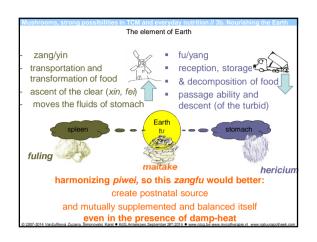
Application IV – according to TCM

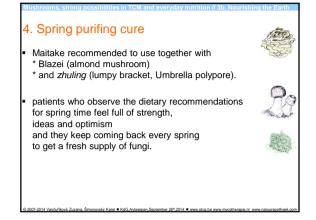
- increases qi and supplements vacuity (yiqi buxu)
- strengthens body and supports thinking (jianshen zengzhi)
- extends life-span (yannian yishou)
- makes body lighter and prevents aging (qingshen bulao)
- support of urination in cases of difficult urination

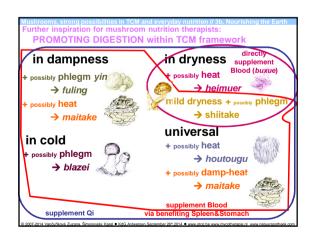
in cases of oedemas

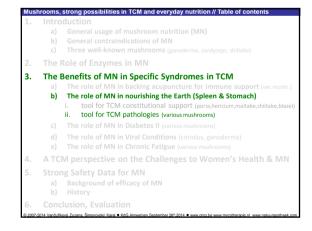
fuling 🤲 houtougu Ideal spleen combination: Ideal stomach combination: strengthens the spleen supplements the spleen calms the spirit calms the spirit drains water, supports urination aids digestion eliminates dampness benefits the five zang organs influences the mechanism of increases gi water governed by the three burners strengthens, clears and transforms phlegm transforms maitake Ideální combination for harmonizing spleen & stomach + clears heat (and damp-heat) + nourishes kidneys + harmonizes spleen and stomach











Digestive Problems

Symptoms

Loss of appetite
Stomach problems, regurgitation, nausea, vomiting, stomach ache
Diarrhoea, abdominal pain, ...

Diagnosis according to WM:
Psychosomatic complaints
Gastritis, intestine inflammation, peptic ulcer disease
Cholecystitis, gallstones
Liver inflammation, steatosis, cirrhosis of the liver
Intestinal infection, parasitic disease, ...

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Digestive Problems II. -Causes According to TCM

Most Frequent Causes According to TCM:

- 1. Accumulative indigestion (shiii) (stagnation of food in the stomach)
- 2. Stomach heat (weire)
- 3. Insufficiency of spleen gi, insufficiency of spleen and stomach gi (pigixu, piwei gixu)
- 4. Insufficiency of spleen yang, possibly also of kidney yang (pivangxu, shenvangxu)
- 5. Insufficiency of stomach vin (weivinxu)
- 6. Stagnation of liver gi with insufficiency of spleen gi (ganyu, pigixu)
- 7. Liver qi affecting the stomach (ganqi fan wei)
- 8. Damp heat in the intestines and gallbladder (dachang shire, danshire)
- 9. Insufficiency of the large intestine in cold syndromes (dachang

1. Accumulative indigestion shiji

Therapeutic aim: help digest food, unblock stagnations, stimulate descent of ACII:

- CV 12 stimulates descent of stomach qi /CV 10,11/
- ST 36 harmonizing stomach, spleen, ST 21 stimulates descending function of stomach qi, dissolves stagnating food
- . BL 21 stomach shu, PC 6 emotions, flow of gi
- · SP 4 dissolves food stagnations
- Presence of heat: ST 44, LR 2, LI 4, 11
- · Presence of dampness: ST 40
- + Hericium basic (but not acute phase of "surfeit", this is handled by ACU)
- + Maitake presence of damp heat, enervation, fatigue
- Note: Only one of the mentioned mushrooms would probably be used in each case, individual choice depends on accompanying symptoms.

2. Stomach Heat weire

Therapeutic aim: Clear heat, harmonize the centre, promote production of fluids, correct the flow of gi ACU:

- CV 12 (stomach mu), PC 6 correct the flow of stomach qi
- BL 21 stomach shu point
- ST 36 promotes spleen and stomach functions...
- ST44 clears heat.
- SP 4 spleen *luo* point, master point for diarrhoea, treats vomiting, stomach cramps,
- LI 4, BL 17...

+ Hericium - basic

+ Maitake - presence of damp heat, enervation, fatigue Note: Only one of the mentioned mushrooms would probably be used in each case, individual choice depends on accompanying symptoms.

3. Insufficiency of Spleen and Stomach Qi - piwei qixu

Therapeutic aim: Strengthen the centre, promote [formation of] qi, and possibly clear dampness, correct the flow of qi, ...

- BL 20,21, CV 12, LR 13, CV 4, ST 36
- + Shiitake (xianggu) basic
- + Poria (fuling) basic, particularly in presence of dampness and swelling, no warming and no cooling effect
- + Blazei warming digestion, sensitivity to cold
- + Maitake presence of damp heat, enervation, fatigue
- + Auricularia (Jew's Ear) harmonizing stomach, tonifying gi and blood
- or depending on other accompanying symptoms
- + Pleurotus (Oyster)
- + Ganoderma (lingzhi-reishi)

Note: Only one of the mentioned mushrooms would probably be used in each case, individual choice depends on accompanying symptoms. The only exception is Poria, which would be added to the daily supplementation plan in order to intensity the effect of supporting the spileen, or promoting the function of transporting the tutos and nourishment of the

4. Insufficiency of Spleen Yang (Possibly. + Kidney) - pishen yangxu

Therapeutic aim: Warm the spleen, invigorate spleen and kidney yang, correct digestion, and possibly remove swelling

- Moxa: BL 20, 23, CV 4, 12, GV 4, ST 25, 36
- + Cordyceps basic
- + Blazei stronger warming of digestion
- or depending on other accompanying symptoms
- + Ganoderma (lingzhi-reishi)
- + Poria (fuling)

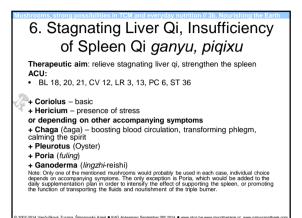
Note: Only one of the mentioned mushrooms would probably be used in each case, individual choice depends on accompanying symptoms. The only exception is Poria, which would be added to the daily supplementation plan in order to intensity the effect of draining dampness, or promoting the function of transporting the fluids and nourishment of the

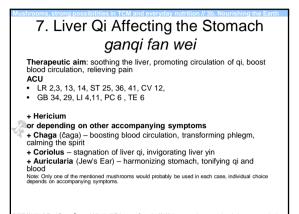
5. Insufficiency of Stomach Yin weivinxu

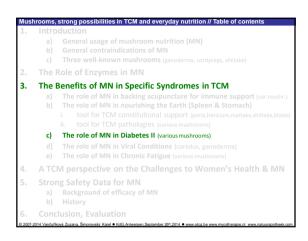
Therapeutic aim: nourish the yin, harmonize the stomach, increase

- PC 6, CV 12 sending down abnormally ascending stomach gi,
- BL 20, 21 spleen and stomach shu point.
- · SP 6 supports yin + fluids,
- ST 44 removing excess heat
- . KI 3/6/ affecting yin and qi
- + Auricularia (Jew's Ear) harmonizing stomach, moistening dryness + Hericium - clearing heat, harmonizing stomach
- or depending on other accompanying symptoms
- + Coriolus invigorating vin

Note: Only one of the mentioned mushrooms would probably be used in each case, individual choice depends on accompanying symptoms.







```
Mushrooms, alrong possibilities in TCM and everyday nutrition // 3c. Diabetes il Traditional differentiation and explanation of patomechanisms xiaokebing 消离病,wasting/thirst disease " tangniaobing 糖尿病 "sweet urine disease"

Patomechanisms — injury from:
① depletion of zangfu organs
② seven emotions and imbalance of work/rest
③ food or medicines
④ blood depression and phlegm accumulation
⑤ yin vacuity and dry-heat
⑥ imbalance of upper burner
② imbalance of middle burner
⑧ imbalance of lower burner
② potentially well solvable by mushroom nutrition
potentially well solvable by mushroom nutrition elements of the mechanism (=>part of other therapy)
```

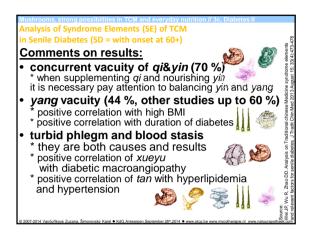
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Analysis of Syndrome Elements (SE) of TCM
 n Senile Diabetes (SD = with onset at 60+)
SE a their order:
                                    Combinations of SE
1. yin vacuity (92 %)
                                    incl. order:
2) gi vacuity (80 %)
3. blood depression/stasis (69%) 1. 4 3E (37 /9) 2. 3 SE (30 %)
4. turbid phleam (47 %)
                                    3. 5 SE (7 %)
(44 %) yang vacuity
                                    4. 2 SE (4 %)
6. damp-heat (43 %)
                                    5. 6 SE (2 %)
7. full heat (31 %)
                                    6. 1 SE (0 %)
8. blood vacuity (27 %)
                                    Ø duration 14±9 years
9. damp-cold (9 %)
   Opotentially well solvable by mushroom nutrition
     * potentially well solvable by mushroom nutrition certain
     elements of the mechanism (=>part of other therapy)
```

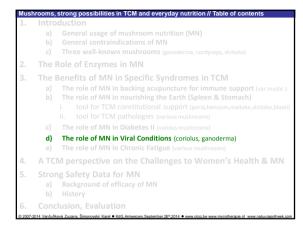
Mushrooms, strong possibilities in TCM and everyday nutrition // 3c. Diabetes II

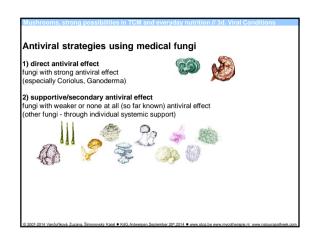
Analysis of Syndrome Elements (SE) of TCM in Senile Diabetes (SD = with onset at 60+)

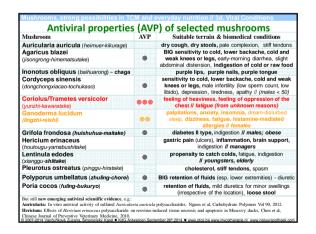
Distribution of main SE combinations:

a) qixu+yinxu+xueyu (13 %)
b) qixu+yinxu+xueyu+shire (6 %)
c) qixu+yinxu+xueyu+tanzhuo (24 %)
d) qixu+yinxu +tanzhuo (11 %)
e) qixu+yinxu +yangxu +other (18 %)
f) yinxu+xueyu +other (10 %)
g) other combinations (18 %)

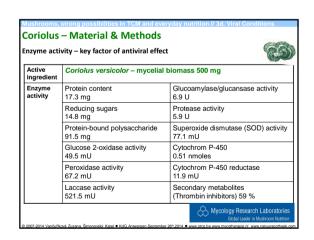


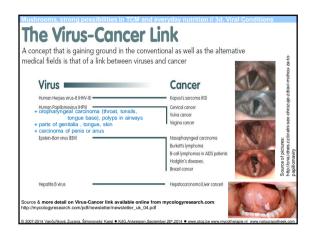


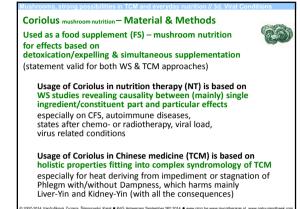


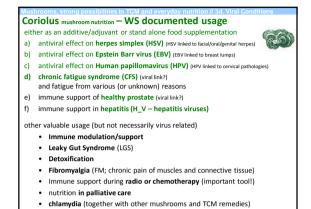


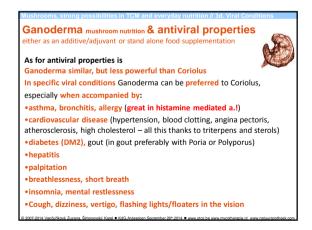


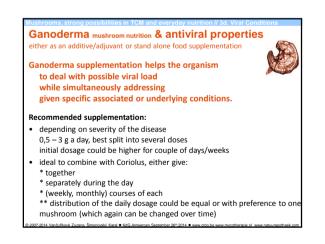


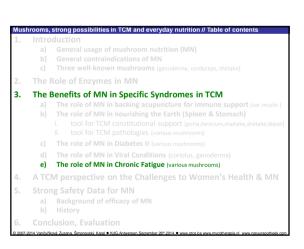












Mushrooms, strong possibilities in TCM and everyday nutrition KdG, Antwerpen, September 26th, 2014

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Chronic fatigue syndrome (CFS)

Chronic fatigue immune dysfunction syndrome (CFIDS)

// Description

First some information about CFS/ME, because it is good example of benefits of using mushrooms and acupuncture together.

CFS/ME is also called as:

- Chronic viral syndrome
- Post viral fatigue syndrome (PVFS)
- Myalgic encephalomyelitis (ME)
- ME/CFS
- => complex clinical syndrome

Characterized by:

- · Persistent fatigue /for more than 6 months/
- Neurological problems
- Constellation of symptoms that can resemble other illnesses

• •

Chronic fatigue syndrome (CFS)

Chronic fatigue immune dysfunction syndrome (CFIDS) // Main symptoms as evaluated by WM

- persistent fatigue doesn't respond to exerted activity
- /tiredness without apparent cause /
- sleep and relaxation doesn't restore enough energy
- symptoms get worse with any physical and mental activity
- recovery /convalescence /of the body after common infections /virosis/ is difficult and time-consuming
- · Patient is very limited in everyday life

Chronic fatigue syndrome (CFS)

Chronic fatigue immune dysfunction syndrome (CFIDS)

/ Other causes of fatigue that should be eliminated according to WM

Diff. diagnosis:

- hypothyroidism, lupus erythematosus
- and other autoimmune diseases,
- · anemia, insufficiency of minerals, vitamins,
- tumors
- active ongoing Lyme disease,
- active EBV (1gM) (i.e. EBV without being accompanied by other major/minor/objective symptoms)
- addiction on drugs, alcohol...
- psychiatric illnesses

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Chronic fatigue syndrome (CFS)

Chronic fatigue immune dysfunction syndrome (CFIDS) // Minor symptoms I – as evaluated by WM

- Muscle pain, joint pain /without redness/
- · Sore throat
- Headache
- Chills
- Weakness, coldness of the extremities
- Sweating
- Swollen, painful glands, /lymph nodes/

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

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Chronic fatigue syndrome (CFS)

Chronic fatigue immune dysfunction syndrome (CFIDS)

// Diagnosis in Western medicine

... difficult, cannot be determined by objective examination

Dq:

 2 main + 6 minor symptoms +2 objective criteria,

2 main + 8 minor s.

stress, emotions

metals.../

Chronic fatigue syndrome (CFS)

// Causes of CFS from the view of WM

 infections, viral load (EBV, CMV, Herpes simplex, borrelia, chlamydia...)

Chronic fatigue immune dysfunction syndrome (CFIDS)

metabolic and genetic defects

bad nutrition + life style...

pollution of our environment /chemicals, heavy

ronic fatigue syndrome (CFS)

Chronic fatigue immune dysfunction syndrome (CFIDS)

/ from TCM perspective

We are looking for the roots of the disease, so we examine the status of YIN, YANG, QI, XUE, and ZANG-FU organs

Attention on prenatal (SHEN=kidney) and postnatal root (PI+WEI= spleen, stomach)

We are looking for the causes of weak YUAN QI

We are checking organs involved in forming QI&XUE, and organs which are responsible for their distribution

+ do not forget latent pathological factor / lingering pathogens (fuxie)

In other words we are thinking of following deficiencies:

- (vuan)aixu
- piwei gixu, piyangxu
- feiaixu
- shenjing buzu, shenyinyangxu
- ganyu (Liver-Qi stagnation)

Conclusions

from the clinical use of Coriolus

- balances immunity,
- is useful in the treatment of autoimmune inflammation.
- has antiviral effect.
- is increasing vitality, energy
- has hepatoprotective effect...

Conclusions

from the clinical use of the combination of Coriolus+Cordyceps

In fatique, chronic fatique or in sportsmen nutrition

- To balance immunity
- To enhance the capacity to deal with stress
- To strengthen body
- To safeguard body from injury

Recommended supplementation

- 14 days before event: 2x 1,5 g of Coriolus + the same of Cordyceps a day
- in training: 1x 1,5 g of Coriolus + the same of Cordyceps a day
- in (young) males possible to replace Cordyceps for Blazei
- in males above 50 y. advised to replace Cordyceps for Maitake (or Blazei)
- in women possible to replace Cordyceps for Reishi

mushrooms are best to be taken separately, best 1 hour before or 2 hours after meal / Cordyceps or Blazei to be used best in the morning, forenoon, and definitely not before

rom the clinical use of Poria

- Poria is of great value in tonifying digestive organs (pancreas, stomach) and in promoting good/healthy (not reduced, not excessive) appetite
- Good to treat coughs with phleam (transforming phlegm: huatan in terms of TCM)
- Because of aiding the digestion it may be useful in treating fatigue....