Integrative Chinese Medicine

A New System for Diagnosis and Treatment

Treating Metabolic Syndrome with Western Herbs

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ICM • Integrative Chinese Medicine

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Metabolic Syndrome: Contents

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MetS Part 1 Introduction

Part 1.a Metabolic Syndrome **Conventional medicine**

Definition

Metabolic syndrome (MetS) refers to a group of metabolic abnormalities which may include:

- central obesity
- insulin resistance
- hypercholesterolemia
- hypertriglyceridemia
- hypertension
- low level of high-density lipoprotein (HDL)-cholesterol
- hyperuricemia

Associated disorders

MetS is associated with risk of cardiovascular disease, including heart disease and stroke, and diabetes.

Other associated conditions may include:

- kidney disease
- non-alcoholic fatty liver disease
- polycystic ovarian syndrome
- erectile dysfunction in men

Frequency 25-30% of people in USA.

Risk factors

The following factors increase risk of MetS:

- age
- obesity
- diabetes
- other diseases:
 - nonalcoholic fatty liver disease
 - sleep apnoea
 - polycystic ovary syndrome

Drug-induced metabolic syndrome

This topic was reviewed by Wofford MR, et al. in 2006.

"The use of certain medications may increase the risk of the metabolic syndrome by either promoting weight gain or altering lipid or glucose metabolism.

Health providers should recognize and understand the risk associated with certain medications and appropriately monitor for changes related to the metabolic syndrome.

Careful attention to drug choices should be paid in patients who are overweight or have other risk factors for diabetes or cardiovascular disease."

Potentially inducing drugs

- thiazide diuretics
- beta blockers
- niacin
- thiazolidinedione (TZD) agents
- oral contraceptives (OCS)
- protease inhibitors
- psychiatric/neurologic medications, antipsychotics
- antidepressants

Lifestyle changes

The following are recommended:

- at least 30 minutes physical activity most days
- plenty of vegetables, fruits, lean protein and whole grains
- reducing saturated fat
- reducing salt
- keeping a healthy weight
- no smoking

Medical treatment

This is mainly focused on treating associated disorders, eg. diabetes, hyperglycemia, hypertension, and hyperlipidemia, and and may include one or more of the following:

- antidiabetics- eg. metformin (a biguanide)
- lipid-lowering agents- statins
- lipid-lowering agents- non-statin
- ACE inhibitors
- ARBs (angiotensin II receptor blockers)
- antiplatelet agents- cardiovascular

Part 1.b Metabolic Syndrome 4 Imbalances & Differential Questions

MetS: Integrative Chinese medicine

Diagnosis and Treatment

4 Imbalances

• MetS can be organized in terms of the 4 Imbalances: Deficiency, Stagnation, Disturbance, and Excess

Chinese organ syndromes

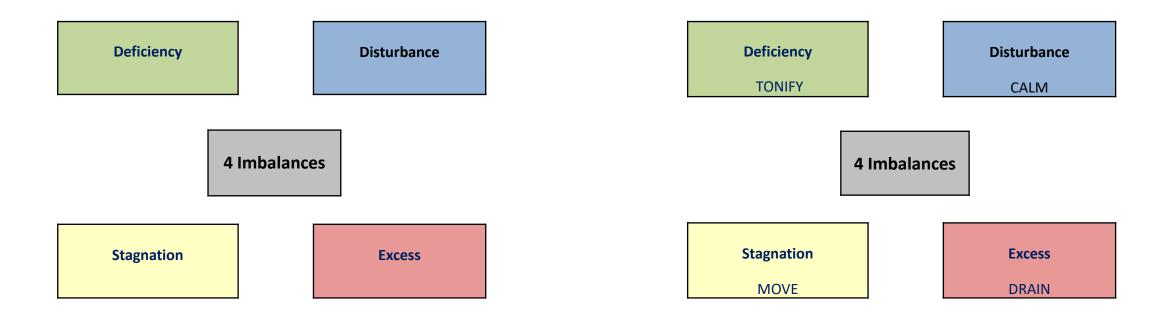
• MetS can then be further organized in terms of the Chinese organ syndromes

Differential Questions

 a special system of Differential Questions is presented to make it easier and faster to find the Chinese organ syndrome responsible for the disorder

4 Imbalance system

We can say that there are four basic things that can go wrong with the energy of the body:



Deficiency

TONIFY

- is exhaustion a problem for you and does it reduce your ability to do physical exercise?
- do you eat junk food because you are too tired to cook?

Disturbance

CALM

- do you have emotional disturbance or disturbed and non-refreshing sleep?
- do you eat more because you are stressed or emotionally upset?

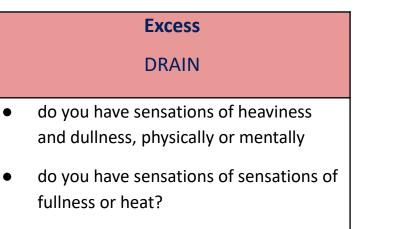
4 Imbalances

Metabolic Syndrome

Stagnation

MOVE

- is depression or low mood a problem for you, and does it reduce the number of times that you do physical exercise?
- do you eat more because you are depressed?



	MetS	: Differential Questions Chinese Organ Syndromes
Kidney	KI Jing Def	did your weight gain and exhaustion come with age?
	KI Qi & Yang Def	are you chronically exhausted with heat sensations?
	KI Qi & Yin Def	are you chronically exhausted with heat sensations, maybe esp. at night?
	KI Yang & Yin Def	 are you chronically exhausted with alternations between heat and cold sensations?
Spleen	SP Qi Def	 do you have reduced appetite or loose stool, or a history of weight gain or hyperglycemia? do you habitually consume junk food or sweetened drinks?
	SP Qi & Yang Def	do you have reduced appetite or loose stool, a history of weight gain, or cold sensations?
	SP Yang Def + Cold	do you habitually eat cold or iced foods or drinks?
	SP Qi Def + Damp	 are you exhausted and do you have sensations of heaviness or dullness?
Liver	LR Qi Stag	 are you depressed, frustrated, or habitually block your anger?
	LR Qi Def	 do you have difficulty with fatty foods, alcohol, or medications?
Heart	HT Qi Stag	do you have sadness or emotional constraint, esp. with relationship difficulties?
	HT Blood Stag	do you have pain in the heart region, or diagnosis of heart vessel stenosis?
	HT Spirit Disturbance	do you have palptations, anxiety, panic sensations, or sleep disturbance?
	Phlegm Misting Mind	do you have mentall dullness, forgetfullness or reduced concentration?
Lung	LU Qi Stag	do you have sensations of grief, following a loss?

MetS Part 2 Herbs

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Part 2.a MetS Herbs: Research

Herbs: Research

3 basic herbs

The following 3 herbs have a large number of studies on effectiveness for MetS and related disorders:

- Berberis esp. berberine
- Curcuma esp. curcumin
- Scutellaria baicaelensis
 - esp. baicalin, baicalein, wogonin

Active references

We have emailed you a document with about 23 herbs and 50 active research references on this topic.

 click on any one of the references to open it in PubMed

https://pubmed.ncbi.nlm.nih.gov

 then put it through DeepL Translate to translate it into German

https://www.deepl.com/translator

Part 2.b MetS Herbs: ICM

MetS Herbs: 4 Imbalances

4 Imbalances

I have divided the herbs that, according to research, can be used for MetS, into four groups, according to the 4 Imbalances.

- Deficiency tonics
- Stagnation moving herbs
- Disturbance calming herbs
- Excess draining or clearing herbs

Some herbs occur in more than one group, eg. Zingiber.

Chinese organ syndromes

We are using the Chinese organ syndromes shown on Slide 13, where you can see the Differential Questions for these syndromes.

Research

All the herbs shown in the following Tables have one or more research articles supporting use for MetS of herb and/or its constituents.

				MetS H	lerbs D	eficiency	,					
Herb	Temperature	KI Jing Def	KI Qi Def	KI Qi & Yang Def	KI Qi & Yin Def et stimulant	KI Yang & Yin Def	SP Qi Def	SP Qi & Yang Def	SP Yang Def + Cold	SP Qi Def + Damp	LR Qi Def	Yin Def
									1			1
Panax gin. red	warm											
Panax gin. white	neutral-warm											
Panax qui.	neutral-cool											
Astragalus	sl. warm											
Glycyrrhiza baked	neutral-warm											
Glycyrrhiza	neutral-cool											
	•				Sweet toni	cs						
Ophiopogon	cool											
Lycium	neutral											
				Ast	tringent KI	tonic						
Schisandra	warm											
				Ą	romatic tor	nics						
Trigonella	sl. warm											
		·		Circula	tory stimul	ants (hot)	·	·	·			
Cinnamomum bark	hot											
Capsicum	hot											
Zingiber (dried)	hot											
Zanthoxylum	hot											

MetS Herbs Deficiency												
Herb	Temperature	KI Jing Def			KI Qi & Yin Def	KI Yang & Yin Def			SP Yang Def + Cold		LR Qi Def	Yin Def
					Seaweeds	6						
Ascophyllum nodosum	nuetral?											
Fucus vesiculosus	Fucus vesiculosus neutral?											

				MetS H	lerbs St	agnation					
Herb	Temperature	HT Qi Stag	HT Blood	НТ	LU Qi	LR Qi					
			Stag	Phlegm	Stag	Stag					
				(athero) Heart t	onics and r	egulators					
		1	ŕ	r			ł	ł	 ŕ	r	
Crataegus	sl. warm										
Curcuma rhizoma	warm										
Curcuma tuber	cold										
Salvia mil.	cool										
				Circula	atory stimul	ants (hot)					
Capsicum	hot										
Zingiber (dried)	hot										
Zanthoxylum	hot										
					Aromatics	5					
Rosmarinus	warm										
					Bitters						
Berberis	cool										
Gentiana lut.	neutral-cool										
Silybum	neutral										

				I	MetS Her	bs						
Herb	Temperature		Disturbance					Excess				
		HT Spirit Dist	LR Yang Hyper (hypert)				HT Heat	HT Phlegm Heat	LR Heat			
	Heart tonics and regulators											
Curcuma tuber	cold											
Salvia mil.	cool											
				An	ti-inflamma	tories			1			
Scutellaria baicalensis	cold											
	• 	·		Circula	tory stimul	ants (hot)			·			
Capsicum	hot											

MetS Part 3 Herb Combinations

Part 3.a MetS Combination Comparison Tables

				MetS Herb Com	oinations					
	*	= few or no research article	s supporting u	ise for MetS, but relevent, i	n this case, acc	cording to Western and/or	Chinese tradition	on.		
General		Age, Exhaustion, Cold, I	Damp	General + cardiovascul	ar	General + depression		General + anxiety + heat		
								sensations		
obesity, diabetes, hype	erlipidemia,	obesity, diabetes, hyperl	ipidemia	obesity, diabetes, hype	rlipidemia,	obesity, diabetes, hype	besity, diabetes, hyperlipidemia,		ipidemia,	
hypertension		+ age, exhaustion, cold s	ensations,	hypertension		hypertension		hypertension		
		heavy sensations		+ chest pain		+ depression		+ anxiety + insomnia + heat		
								sensations		
SP Qi Def + KI Qi Def +	HT Phlegm +	SP Qi & Yang Def + KI Qi & Yang Def		SP Qi Def + KI Qi Def + HT Phlegm +		SP Qi Def + KI Qi Def + HT Phlegm +		SP Qi Def + KI Qi Def + HT Phlegm +		
LR Yang Hyper		+ KI Jing Def + SP Damp + Phlegm		LR Yang Hyper		LR Yang Hyper		LR Yang Hyper		
		Mists Mind		+ HT Qi Stag + HT Blood Stag		+ HT Qi Stag + HT Blood Stag		+ HT Spirit Dist + HT Yin Def + HT		
								Heat		
Berberis	1	Panax gin. red	1	Berberis	1	Berberis	1	Berberis	1	
Curcuma rhizoma	1	Lycium	1	Curcuma rhizoma	1	Curcuma rhizoma	1	Curcuma tuber	1	
Scutellaria bai.	1	Trigonella	1	Scutellaria bai.	1	Scutellaria bai.	1	Scutellaria bai.	1	
		Cinnamomum bark	1							
Panax gin. white	1			Crataegus	1	Rosmarinus	1	Salvia mil.	1	
Ophiopogon	1	Zanthoxylum	1	Salvia mil.	1	Mentha pip.*	1	Salvia off.	1	
Schisandra	1	Capsicum	5-20 dr.	Leonurus*	1	Zingiber (dried)	1		_	
								Panax qui.	1	
Trigonella	1	Angelica arc.*	1	Zanthoxylum	1	Silybum	1	Ophiopogon	1	
Fucus vesiculosus	1	Acorus*	1	Capsicum	5-20 dr.	Gentiana	1	Lycium	1	
		Polygala*	1							

 MetS Herb Comb = few or no research articles supp relevent, in this case, according to tradition. 	orting use for MetS, but
General	
obesity, diabetes, hyperlipidemia	a, hypertension
SP Qi Def + KI Qi Def + HT Phlegr	n + LR Yang Hyper
Berberis	1
Curcuma rhizoma	1
Scutellaria bai.	1
Panax gin. white	1
Ophiopogon	1
Schisandra	1
Trigonella	1
Fucus vesiculosus	1

 = few or no research articles supporting use for MetS, but relevent, in this case, according to Western and/or Chinese tradition.

Age, Exhaustion, Cold, Damp

obesity, diabetes, hyperlipidemia

+ age, exhaustion, cold sensations, heavy sensations

SP Qi & Yang Def + KI Qi & Yang Def + KI Jing Def

+ SP Damp + Phlegm Mists Mind

Panax gin. red	1
Lycium	1
Trigonella	1
Cinnamomum bark	1
Zanthoxylum	1
Zanthoxylum Capsicum	1 5-20 dr.
Capsicum	5-20 dr.
Capsicum Angelica arc.*	5-20 dr. 1

 = few or no research articles supporting use for MetS, but relevent, in this case, according to Western and/or Chinese tradition.

General + cardiovascular

obesity, diabetes, hyperlipidemia, hypertension

+ chest pain

SP Qi Def + KI Qi Def + HT Phlegm + LR Yang Hyper

+ HT Qi Stag + HT Blood Stag

Berberis	1
Curcuma rhizoma	1
Scutellaria bai.	1
Crataegus	1
Salvia mil.	1
Leonurus*	1
Zanthoxylum	1
Capsicum	5-20 dr.

 = few or no research articles supporting use for MetS, but relevent, in this case, according to Western and/or Chinese tradition.

General + depression

obesity, diabetes, hyperlipidemia, hypertension

+ depression

SP Qi Def + KI Qi Def + HT Phlegm + LR Yang Hyper

+ HT Qi Stag + HT Blood Stag

Berberis	1
Curcuma rhizoma	1
Scutellaria bai.	1
Rosmarinus	1
Mentha pip.*	1
Zingiber (dried)	1
Silybum	1
Gentiana	1

 = few or no research articles supporting use for MetS, but relevent, in this case, according to Western and/or Chinese tradition.

General + anxiety + heat sensations

obesity, diabetes, hyperlipidemia, hypertension

+ anxiety + insomnia + heat sensations

SP Qi Def + KI Qi Def + HT Phlegm + LR Yang Hyper

+ HT Spirit Dist + HT Yin Def + HT Heat

Berberis	1
Curcuma tuber	1
Scutellaria bai.	1
Salvia mil.	1
Salvia off.	1
Panax qui.	1
Ophiopogon	1
Lycium	1