

# 四象醫學(Sa-sang Typology)

**Traditional medicine of Korea  
Classification by four constitutional types.**

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# *Russian lecture*



# 2012.11.14

## Russian lecture



Russian 의  
최우수 의학자들인  
Academician 들에게  
Myofibromatosis  
에 대한 치료사례 소개를  
하고 있는 모습

러시아 경제부의 초청  
으로 혁신의학을 위한 프  
로그램에서

암의 새로운 진단방법,  
과 치료방법. 체질에 따  
른 진단과  
생리학 그리고 파킨슨질  
환의 치료법이란 주제로  
강의

# 2012. 11.12-14 *Russian lecture*



# Sasang( four type) Typology

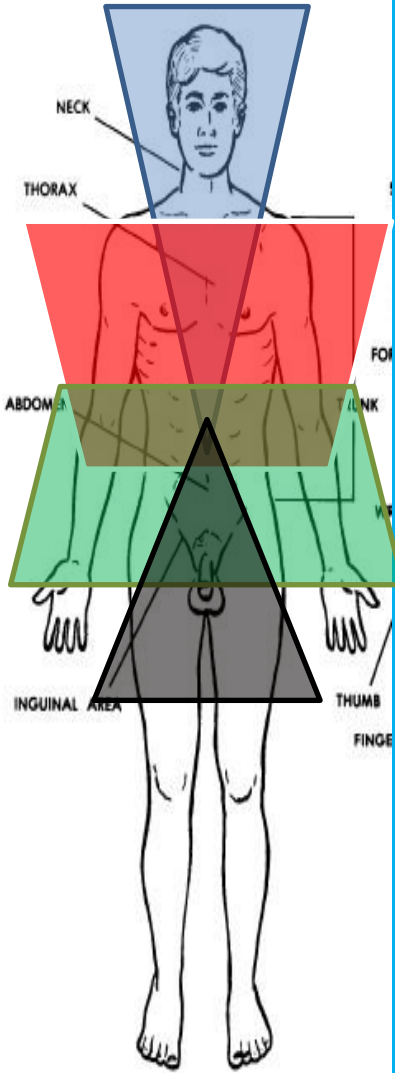



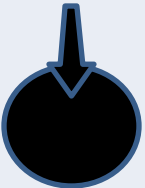


Figure 1-1. Regions

Type	Energy vector	Most developed organ	Percentile distribution of Sasang types in South Korea
<b>Spring type</b> 	Straightening up (like tree)	<b>Lung</b> Respiratory System	Spring type 0.1 % Very rare
<b>Summer type</b> 	Spreading (like fire)	<b>Heart</b> Circulatory System	Summer type 15%
<b>Autumn type</b> 	Gathering (like water)	<b>Liver</b> Digestive system	Autumn type 45%
<b>Winter type</b> 	Concentrating (like metal)	<b>Kidney</b> Reproductive & excretory system	Winter type 40%

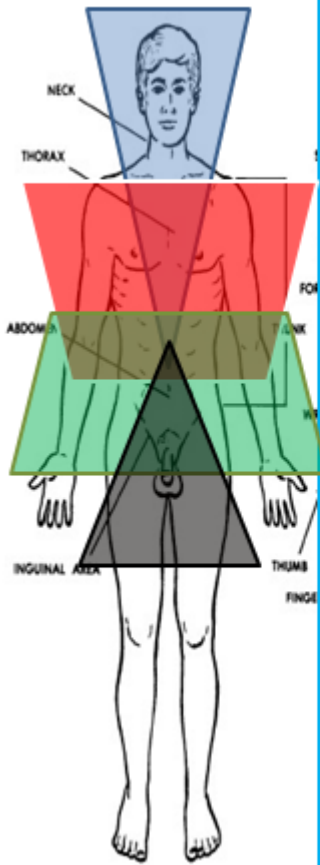






Figure 1-1. Regions

Type	Energy vector
<b>Spring type</b> 	Straightening up (like tree)
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<b>Autumn type</b> 	Gathering (like water)
<b>Winter type</b> 	Concentrating (like metal)




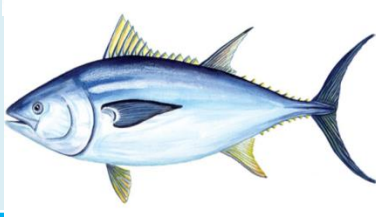

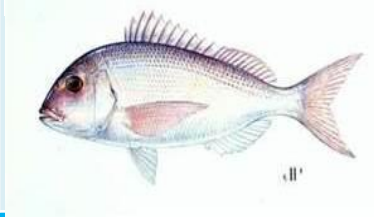




Ли жэ ма (1837-1900) - Lee jae ma  
scholar of late Chosun dynasty, created the theory

*Sasang typology originate  
from old chinese book  
“ yellow Emperor Secret  
record”, and specified  
and clinically used in  
korea by  
Lee Jae ma.*



lee jae ma created new type of medicine. he classified human constitution into four types. he found every type has different characteristics and its own diseases. he also found that different types of patients responded differently to herbal medications . he wrote about the type division and made new medication corresponding to each type. he classified mankind, herbs, diseases by each type on the basis of yin-yang theory

	Yang type	ян	Yin type	инь
	Spring type ++	Summer type +	Fall type --	Winter type -
	Greater yang	Lesser yang	Greater yin	Lesser yin
	весна	лето	осень	зима
	Jumping energy spring	Running energy Dispersing	Walking energy Gathering	Resting energy Concentrating
	nicotine	Muscarine	dopamine	Serotonin
	 	 	 	 

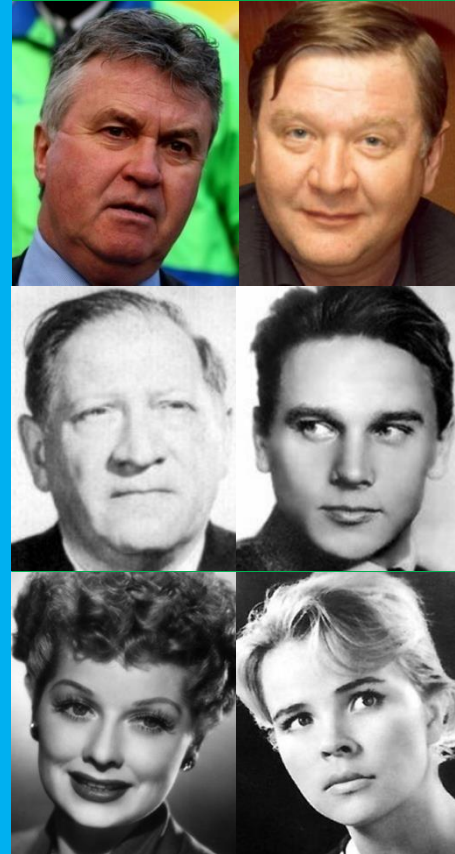
## Spring type



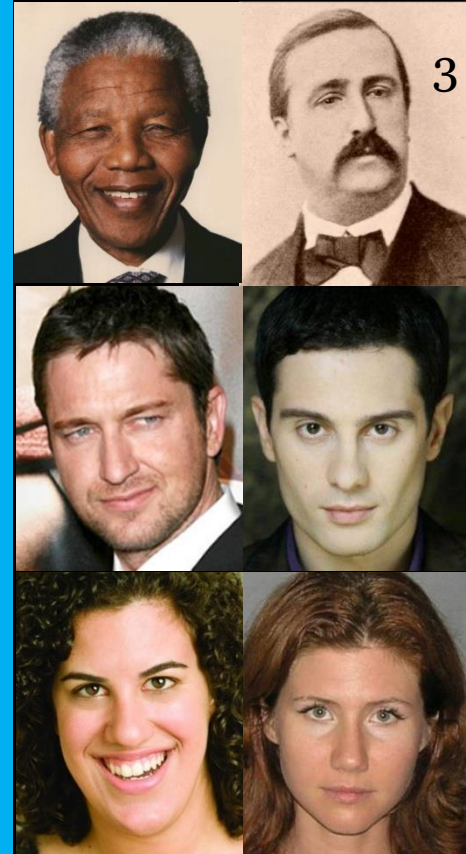
## Summer type



## Autumn type



## Winter type



*Why is it important?  
Use medications by type's  
theory.*

# Case 1 Parkinson's disease - F/51

51 pill a day  
Gait problem  
Hearing problem  
Speaking problem  
Tremor in hand

3 years progression

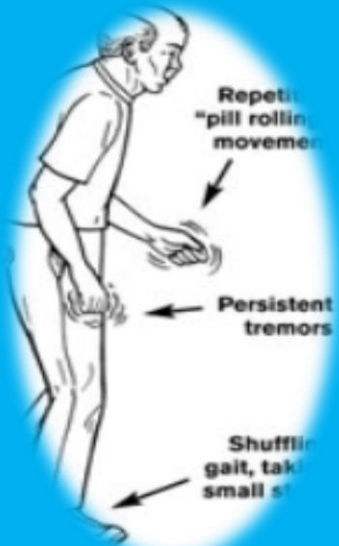
15 pill a day  
+herbal Tx  
  
Improvement  
Of walking

1 month later

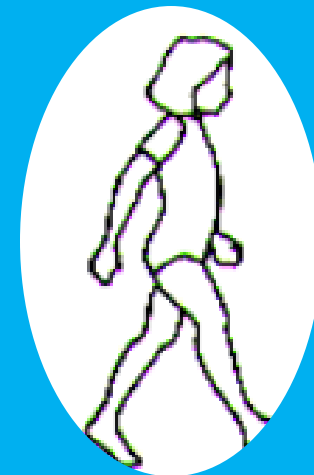
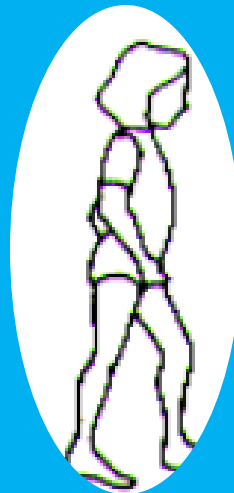
6 pill a day  
+herbal Tx

All symptoms  
were gone

6 months later



Walked  
Only  
20 m



## Case 2 Parkinson's disease - F/51

45 pill a day

Laid in bed  
Could not  
Movable

During 9 month

6 pill a day  
+herbal Tx

Could stand up

4 days later

6 pill a day  
+herbal Tx

Walking by  
herself.

2 months later



# *Auto immune disease*

**Clinical examples by  
constitutional medicine on autoimmune  
disease**

**Sasang (four type) typology**

# Character of modern chemical drug

Statistic result is not always good for all

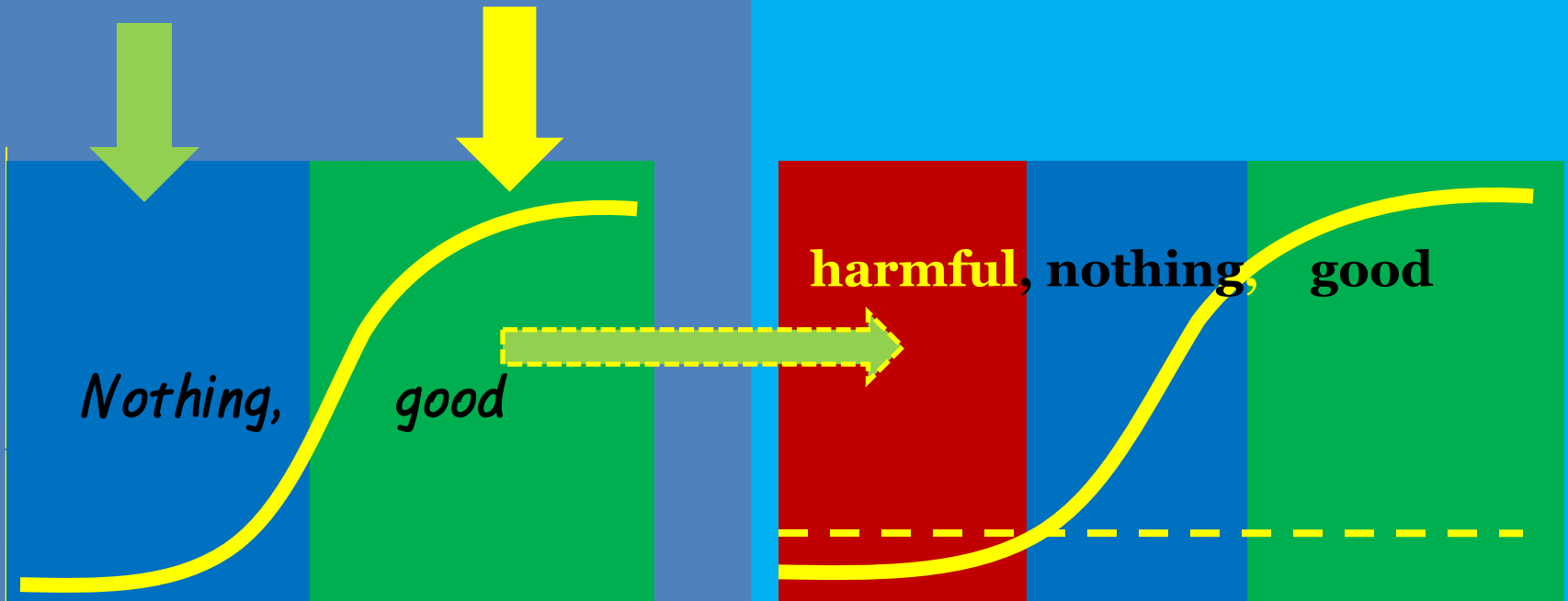
Effective group have good result

No effective group have no result

Non Affective group

Affective group

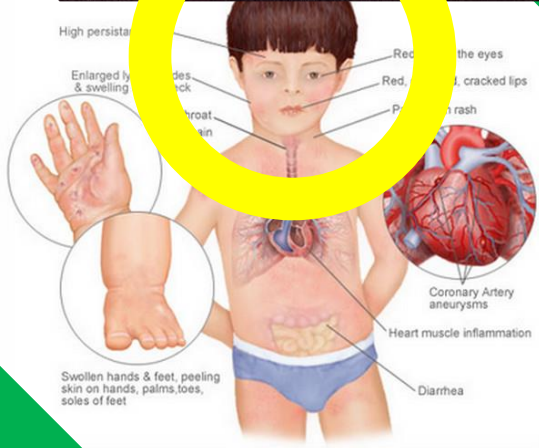
Side effective group have no result & harmful



# Aspirin is harmful to summer type's children

*treat kawasaki syndrome  
for winter type*

**Kawasaki syndrome**

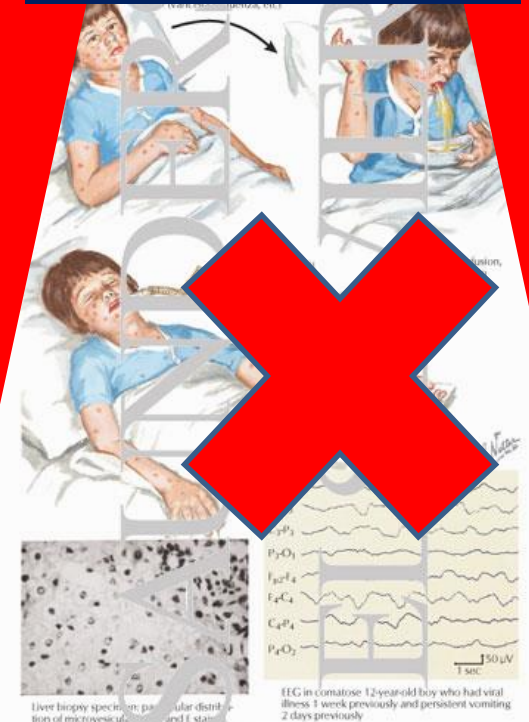


*Good*

*harmful*

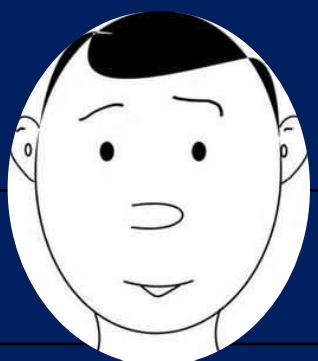
*cause of  
Reye's syndrome  
Of summer type*

**Reye's syndrome**



Spring type	Summer type	Autumn type	Winter type
весна типа	летом типа	осенью типа	зимой типа
<i>aminoglycoside</i>	<i>Quinolon. Ciproxacin. ofloxacin</i>	<i>Beta lactam Cepha Amoxacillin Penicillin</i>	<i>Macrolide Oxytetracyclin Vibramycin Clindamycin Erythromycin</i>

*When Fever cough what drug is good for winter type ?*



*brufen. Naxen  
Aspirin .  
Mefenamic acid  
Ambroxol . EM*

*Easily cured* 😊

*Acetaminophen  
Codeine  
Cepha  
Amoxacillin  
Dextrometrophan*

Fever  
Doesn't cured 😞



Change into quinolone

↓ →

*Sweat. Urinate.  
Hyponatremia*

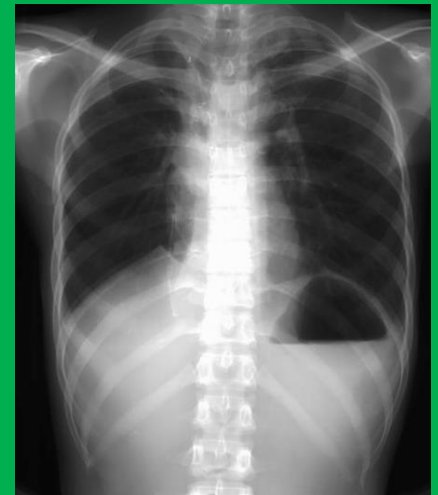
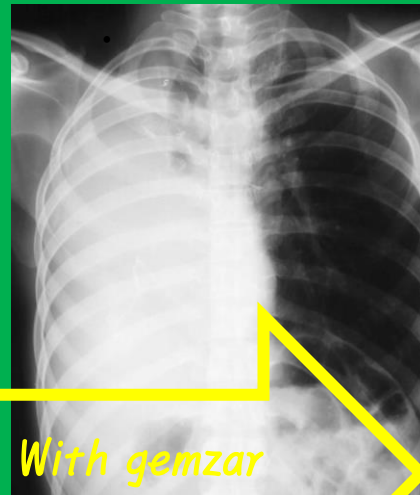
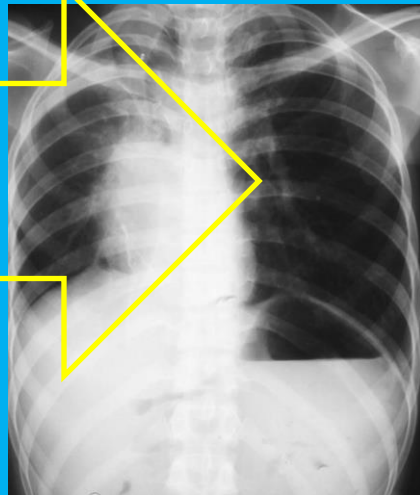
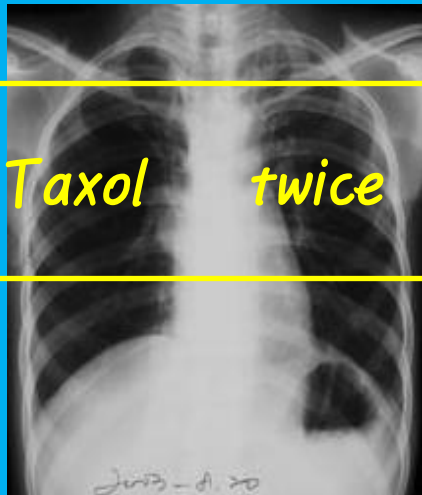
*Chronic Rhinitis  
Otitis Media  
Asthma*

*ITP  
Aplastic anemia  
Leukemia  
Lymphoma*

↓

**Recurred breast Cancer patient.  
After operation and twice taxol therapy.**

**Winter Type patient**

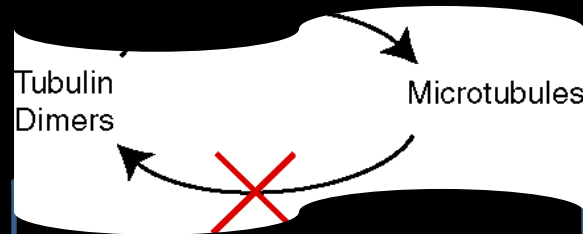


<b>Lung metastasis operation</b>	<b>1<sup>st</sup> taxol</b>	<b>2<sup>nd</sup> taxol</b>	<b>Gemzar MSB0052</b>
<b>After operation</b>	<b>30 days</b>	<b>47 days</b>	<b>97 days</b>
		<b>First visit to clinic</b>	<b>50 days</b>

**Tumor and collapse which grew bigger during using taxol almost disappeared  
By Gemzar and herbal medication  
Within 2 months.**

Example - Anti cancer medication paclitaxel










## *Taxus brevifolia*



heat for body

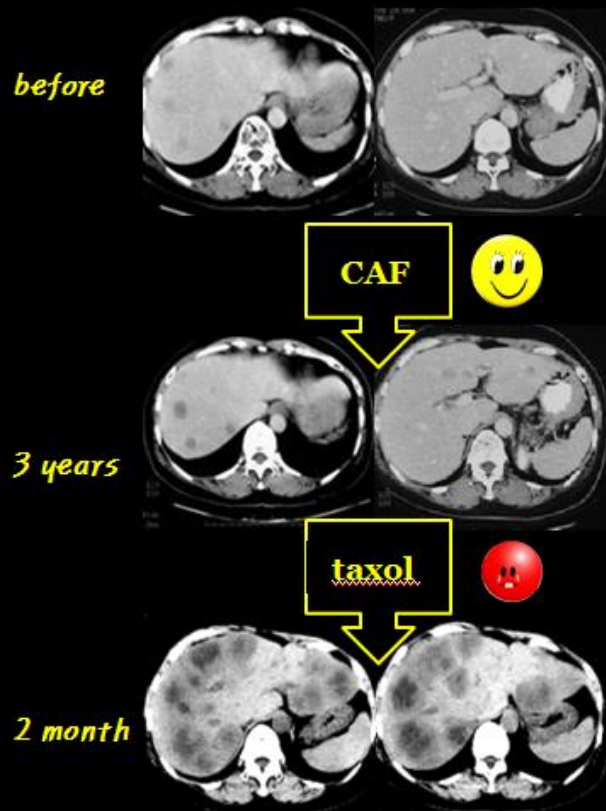


# *Taxol is for autumn type*

	Autumn type	Winter type
  Paclitaxel	 Effective 	 harmful 
 Adriamycin	Harmful 	Effective 

# Taxol for breast cancer patient

Taxol used for Winter type  
2 month later



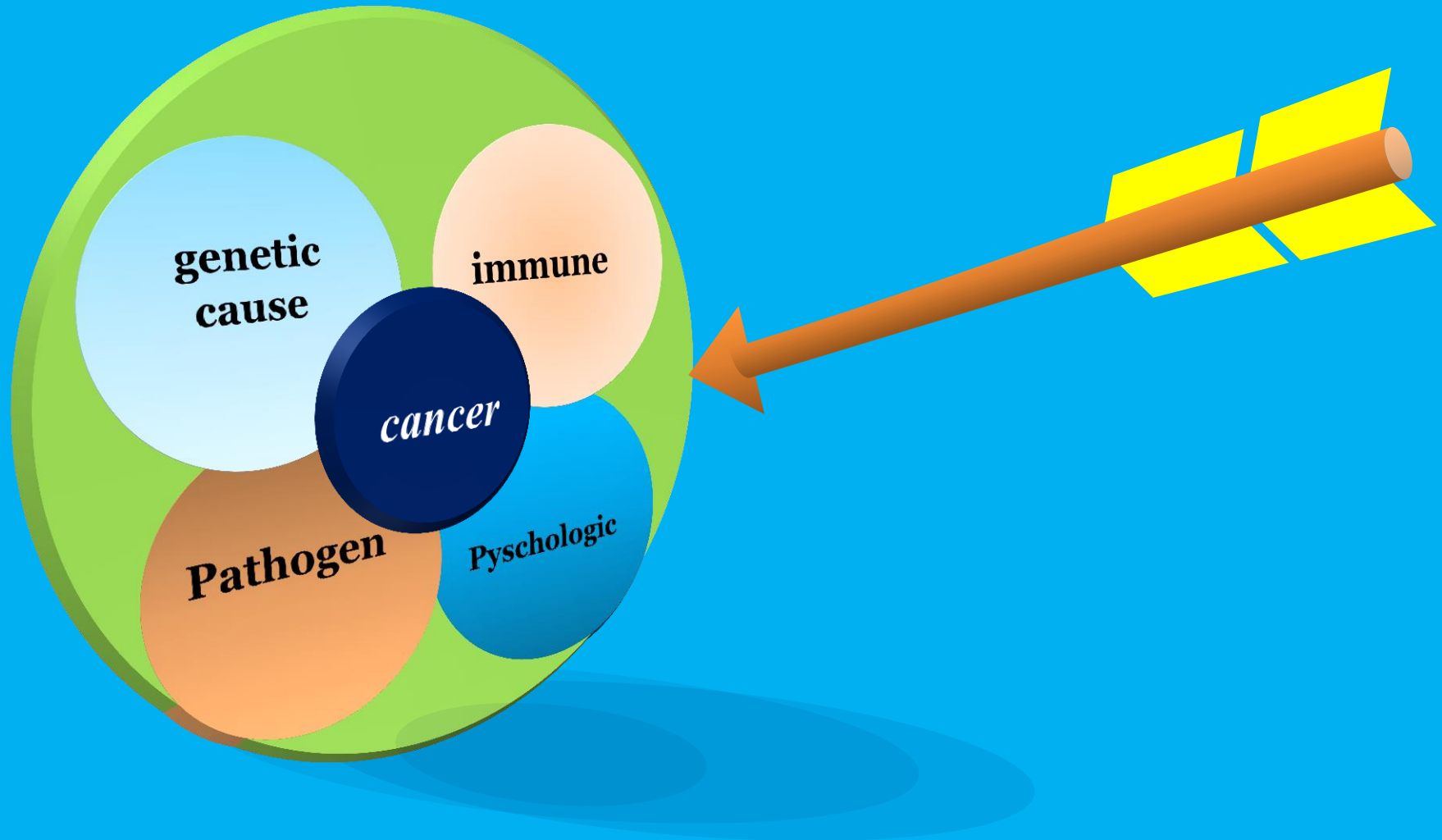
Taxol used for Autumn type  
2 month later



# *function of medication*

**constitutional**

*Medication tarket*



# Development of genome technique & genome map

*By checking the receptor .  
More effective and lesser  
harmful*

**Gene manipulation techniques**

*Toxic &  
effecitve or  
harmful*

**PROTEIN KINASE  
INHIBITOR**

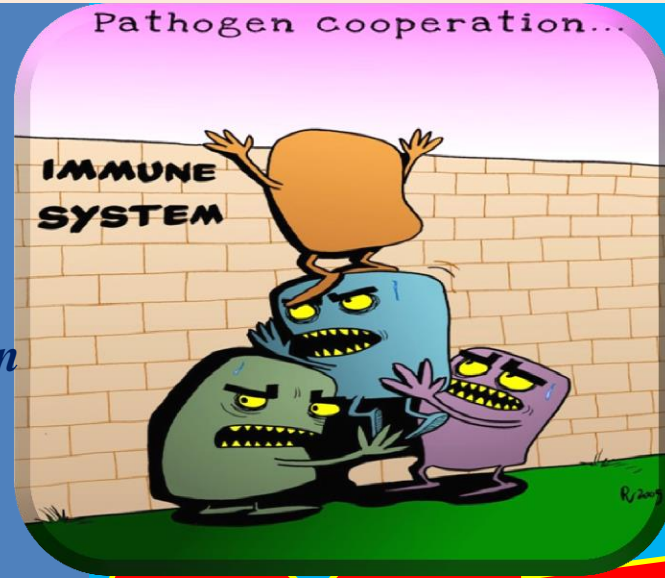


**Chemodrugs**



# chemical drug can overcome all disease ?

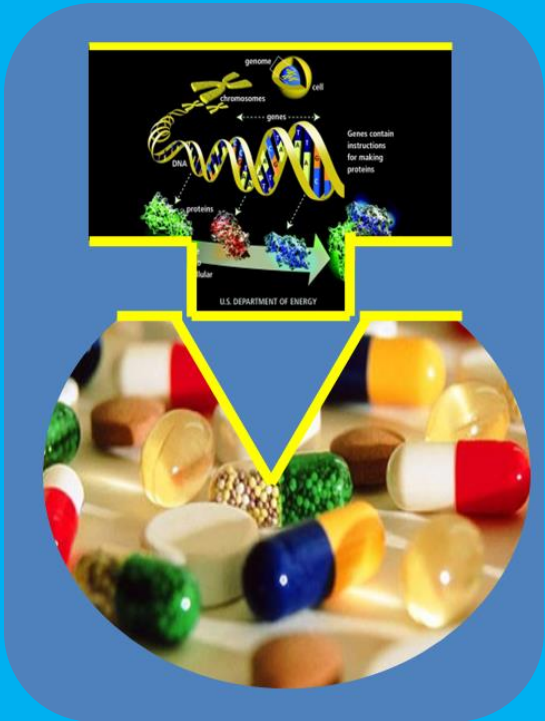
- *eliminating pathogen*
- *strengthen immune system*
- *down regulation special pathogenic protein*
- *relieving stress and peace of mind*



• How to  
got proper method  
and medication  
for individual  
constitutional character

# Completion of the genetic map is only beginning of pharmacogenomics.

Completion of genetic map is just beginning pharmacogenomics



Which medication is match up to which Gene , which individual



**from ready made change into tailored medicine**



*from  
statistics  
change into  
individual  
constitution*



***Pharmaco  
-genomics***

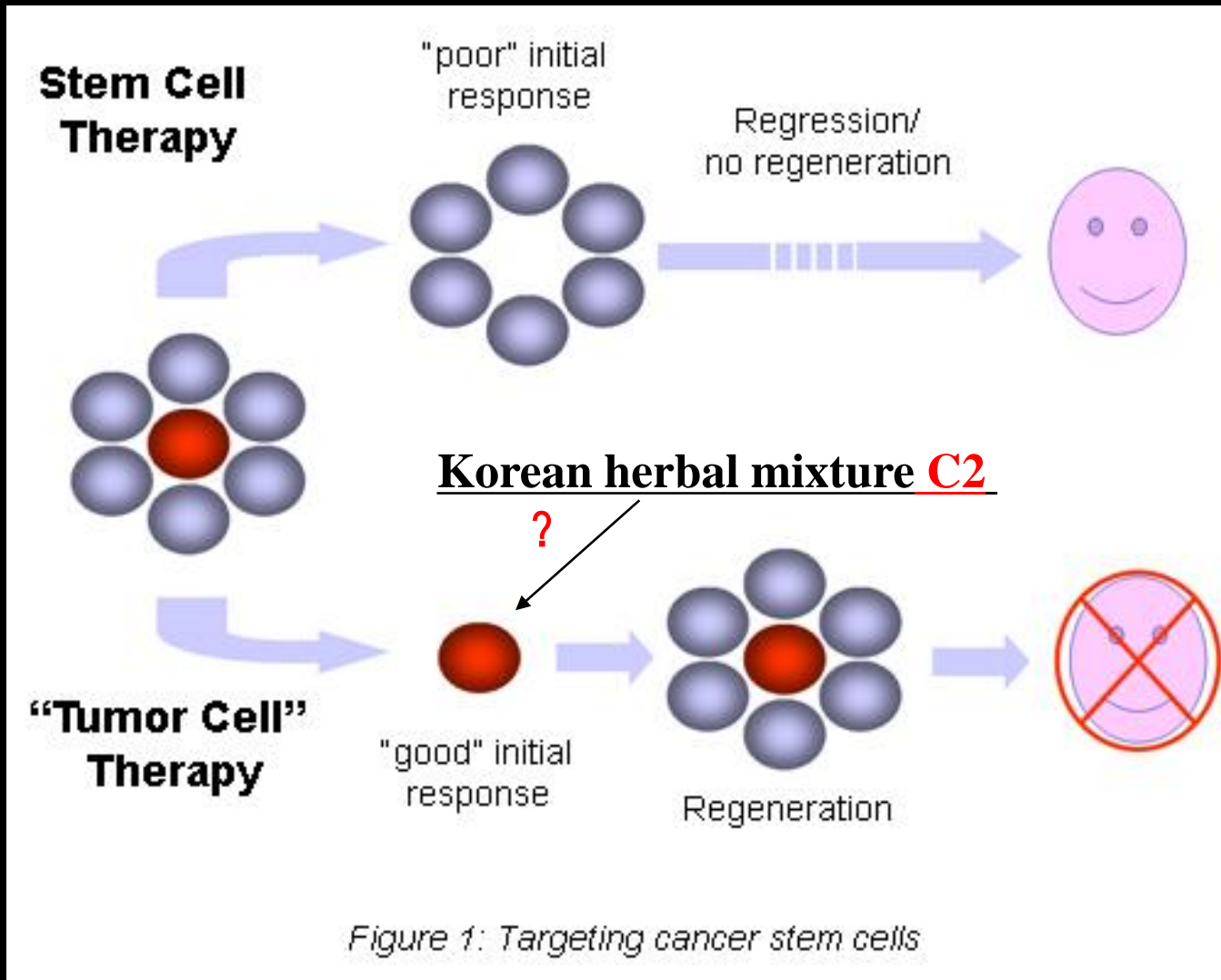
# Korean traditional medicine can be bridge of gene type and medication matching

4 types  
typology

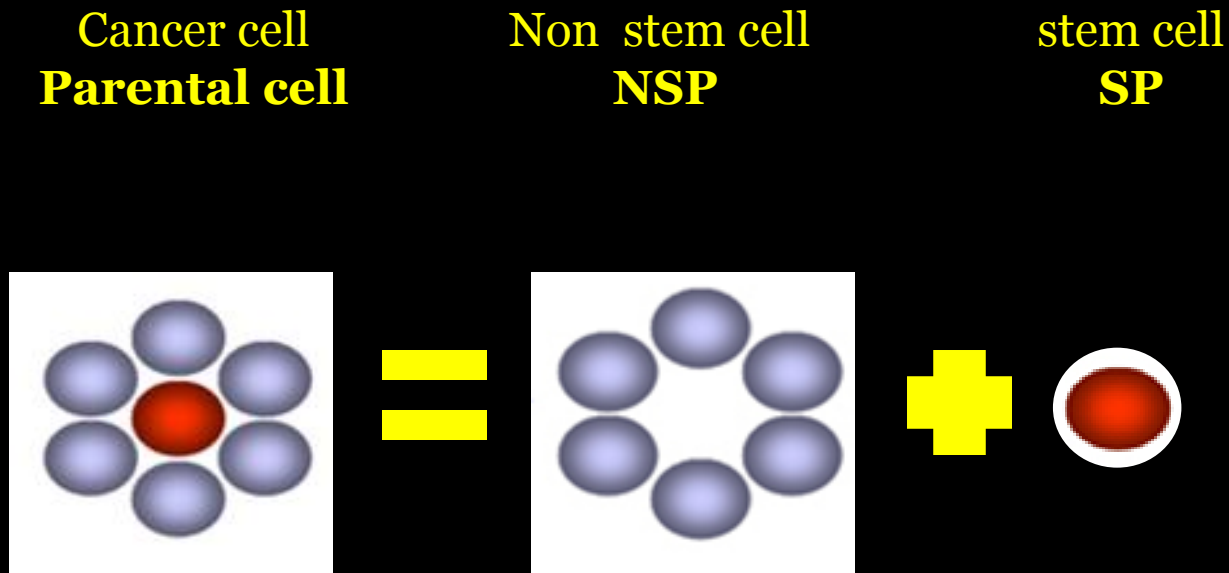


*Herbal medication on  
evidence & science basis*

# Cancer stem cell targeted therapy

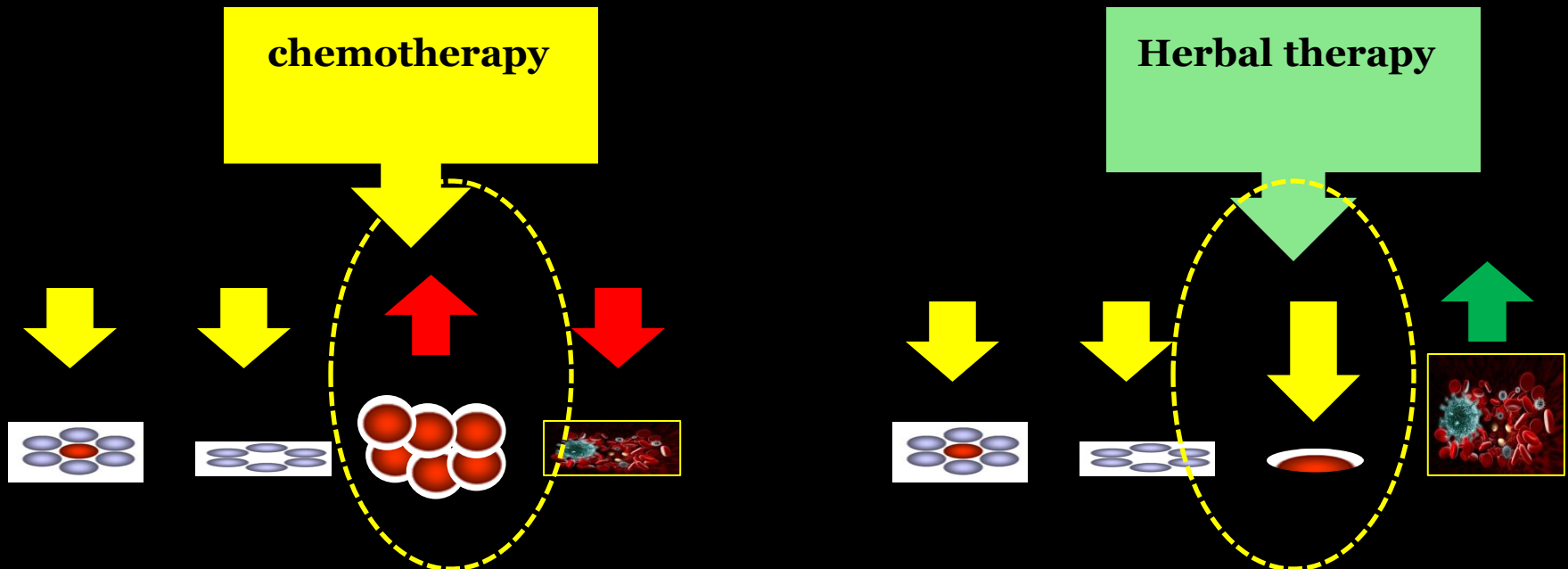
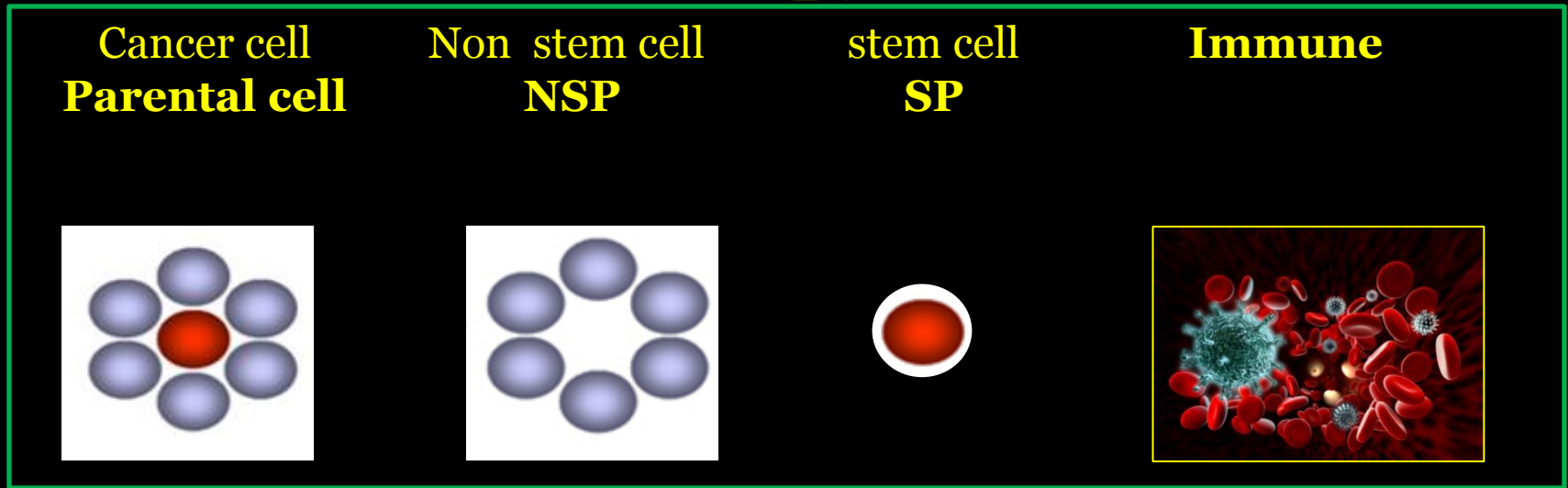


- Why does cancer recurred?
- Chemical medications cannot kill stem cell



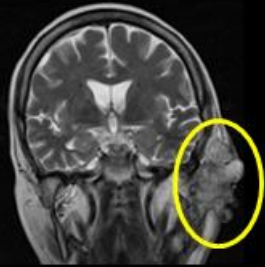
*Cancer cells are composed of non stem cells and stem cells.*

# Effect of Chemotherapy



# Malignant Melanoma / Presente - and published on Springer

- **Female patient /after 8 times surgical removal.**
- **treated with MSB0052 medication for 3 months**
- **partial response as shown below**



2009.7 MRI



2009.6.9



2009.8.18

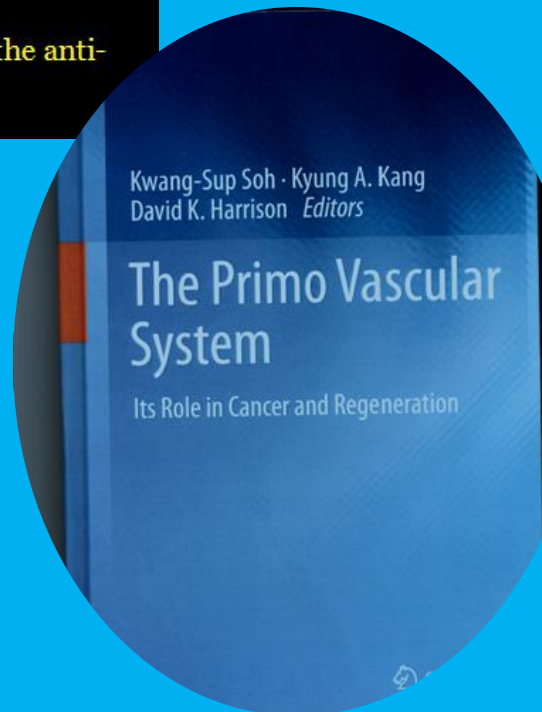
These experiences led us to conduct *in-vivo* study to evaluate the anti-tumoral effect of **MSB0052** on animal model.

동한관 입증 및 임상활용 방안 연구 '눈길'

항암 신약 개발 및 새로운 약물전달경로 입증 '박차'  
경락-원순환계 국제심포지엄에서 최신 연구결과 발표



<LEFT></LEFT>지난달 한학(경락-원순환계)에 관한 연구결과와 함께 발표돼 눈길을 끌었다.  
미날 안성훈 원광대 한의 하나로서 프리모-노달항가?'를 주제로 한 해 설명했다.



## Chapter 26 Molecular Compositional Differences of the Primo and the Lymphatic Vascular Systems in Murine Melanoma Models

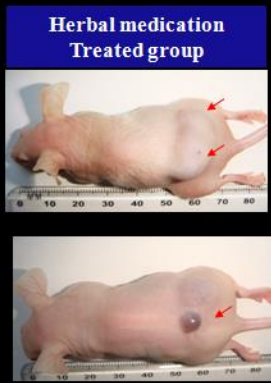
Jung Sun Yoo, Baatarsogt Oyungerel, Il Young Han, Ji Young Kim, Choong Hwan Lee, Kang Duk Choi, Kwang-Sup Soh, and Tae Young Han

**Abstract** The primo vascular system (PVS) has been found in various cancer models, such as the lung cancer, ovarian cancer, and melanoma models. However, there have been no investigations to discriminate PVS from the similar-looking lymphatic vascular system (LVS) in melanoma models. In the present study, the compositional differences between the PVS and the LVS were investigated in murine melanoma models by using immunofluorescence staining and ultra-performance liquid-chromatography quadrupole time-of-flight mass spectrometry (UPLC-Q-TOF MS). Primo vessels (PVs) and primo nodes (PNs) were found on the surface of a cutaneous melanoma by using Trypan blue staining. An immunofluorescent study revealed that the PVs did not contain LYVE-1, a specific endothelial antigen of lymphatics. UPLC-Q-TOF MS chromatograms clearly showed different ion mass peaks between the two vascular systems. Taken together, the presented data on the compositional differences suggest that the PVS is an entirely different circulation system from the LVS.

• After 15 days.



Tumor grow  
More larger  
Than Drug Tx  
Group  
/ also  
showed  
necrosis



Comparison of the tumor volume day15.

Control group N=3

Herbal Med Tx group N=3

n1

n2

Tumor Penetrated the skin

Beneath The skin

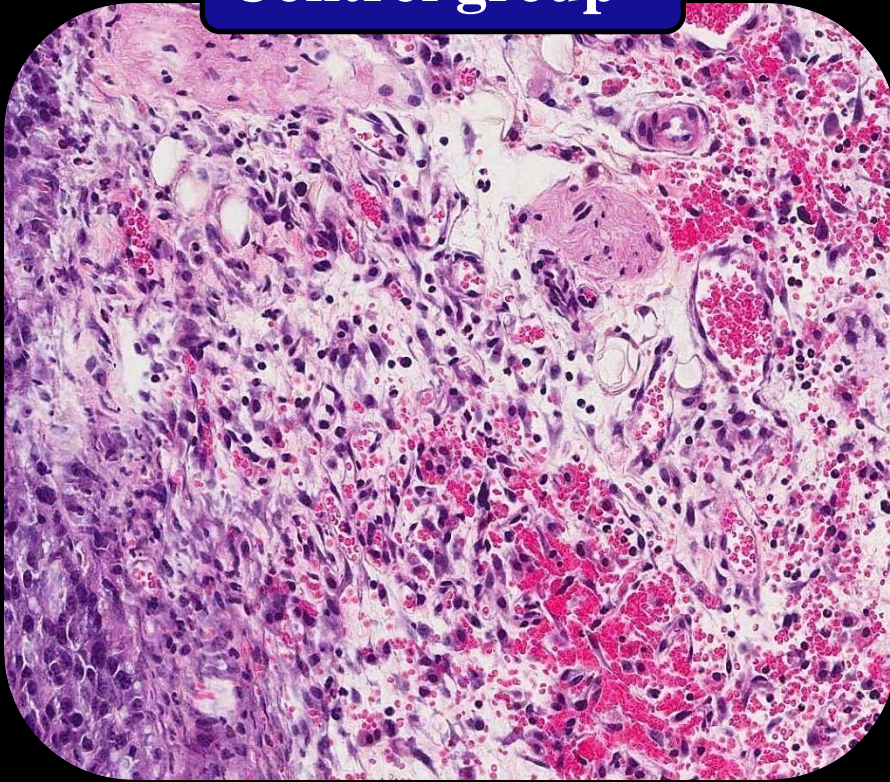
>

This block contains histological sections of tumors from both groups. The control group (N=3) shows two sections labeled n1 and n2. Section n1 shows a tumor that has penetrated the skin, while section n2 shows a tumor beneath the skin. The herbal medication treated group (N=3) also shows two sections labeled n1 and n2. Section n1 shows a tumor that has penetrated the skin, while section n2 shows a tumor beneath the skin. A large yellow greater-than sign (>) is placed between the two groups, indicating that the control group's tumors are more advanced in terms of skin penetration.

Control group showed necrosis in the middle of tumors  
The masses of control group are more larger than D

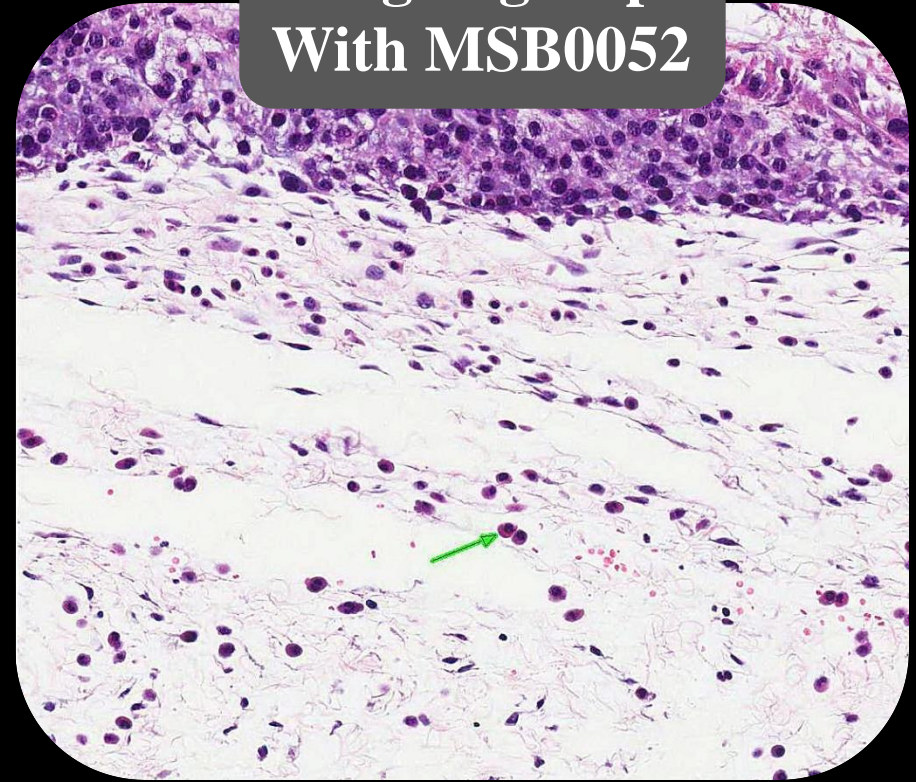
## Pathological evaluation on day 10: extratumoral reaction

Control group



**Increased proliferation of fibroblasts, angiogenesis, and neutrophilic infiltration**

Drug tx group  
With MSB0052



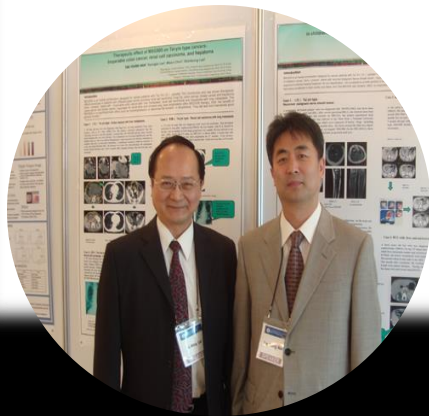
**Mild fibroblastic proliferation and macrophages infiltration**

# Glioblastoma multiforme

- One of most serious brain tumor
- More than 1 year survival
- Is rare.

ACOS 2012/6/13

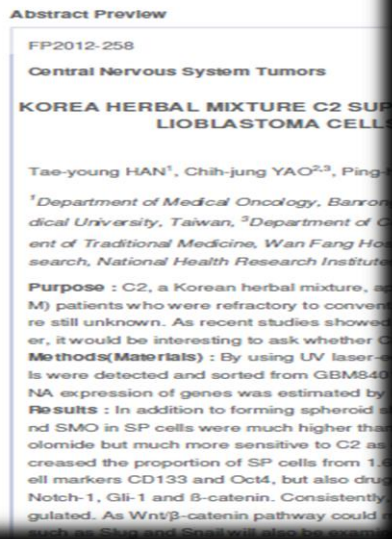
# Korea herbal mixture C2 suppresses the cancer stem like side population in human Glioblastoma cells and inhibits their stemness genes expression



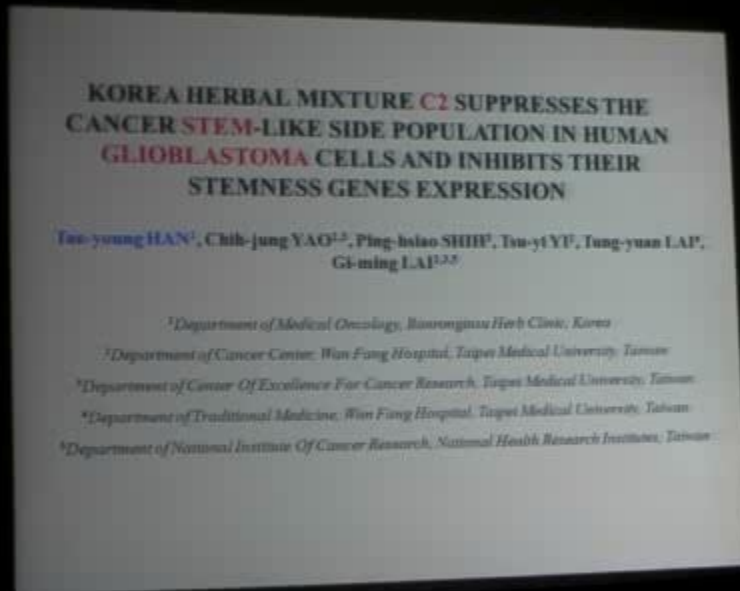
*A thesis announced on ACOS in Seoul (2012/6/13) by Dr, Gi Ming Lai of Taipei University in Taiwan. And Dr. Yao announced it.*

*He is one of the most famous oncologist and researcher in China world.*

*He studied about the effect of my herbal medicine, C2, on Glioblastoma cells and found out that the C2 herbal medicine has stem cell inhibiting effect.*



# ACOS 발표/ 대만 요지청박사의 발표



대북의과대학암연구소  
대북의과대학부설  
만방의원 암연구소  
대만 국립암센터  
공동으로 아직까지 치료약  
이 개발되지 않은

Glioblastoma  
multiforme 에  
본원의 약 C2 의  
임상자료와

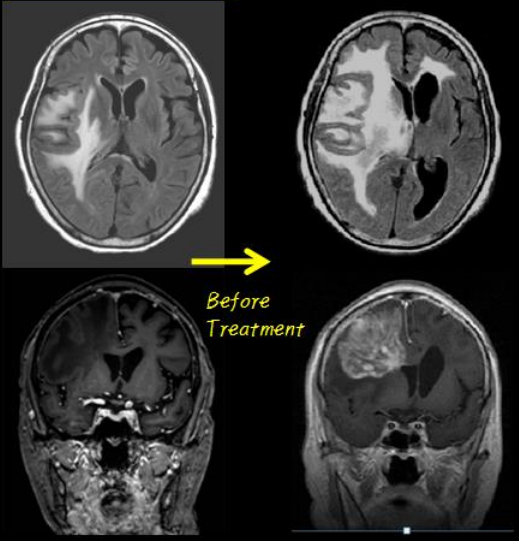
줄기세포 억제기전을  
연구하여서

라기명박사의 지도하에  
대북의과대학  
요지청박사가

2012. 6월 KOEX  
에서 열린 아시아 임상  
암학회에서 발표함.

2010/10/12  
10 mo after  
RT & TEMOZOLAMIDE

2011/4/28  
First visit on Oriental  
medicine clinic

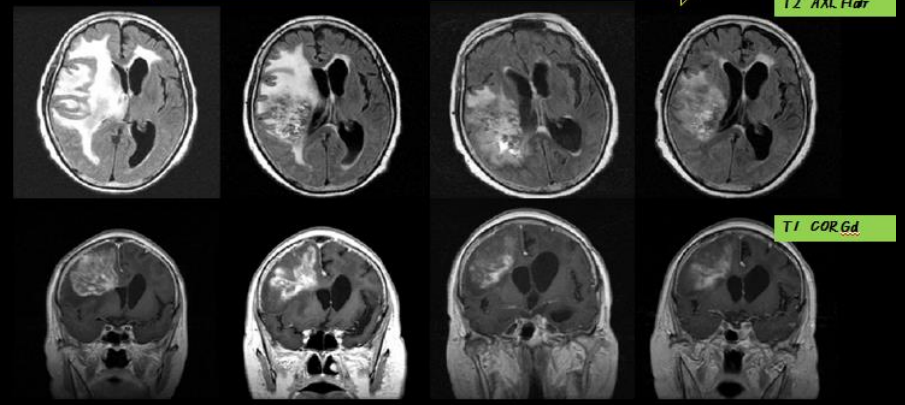


Before  
Treatment

# Case 1

## Before Treat ment

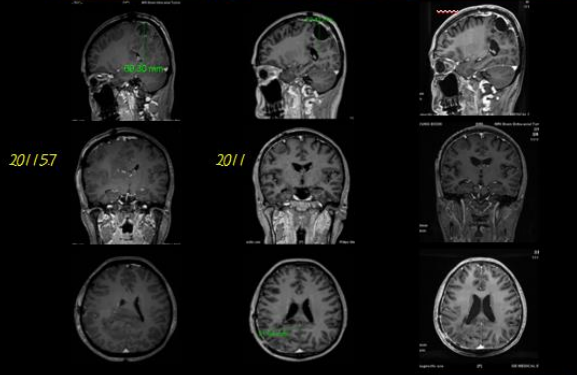
Midline shifting and ventricular compression shows improvement  
with volume reduction 15%



2011.4.28	2011.6.10	2011.8.10	2011.9.16
Right parietal lobe mass 5 times increased from initial study (2010.10.12)	No appreciable interval change in tumor volume	More improvement of mass effect	Apparent reduction of tumor volume about 15%. Since 2011.8.10.
Midline shift and ventricular compression	but slightly decreased peritumoral edema and mass effect		further more improvement of mass effect

# Case 2— anaplastic oligodendroglioma subtotal resection

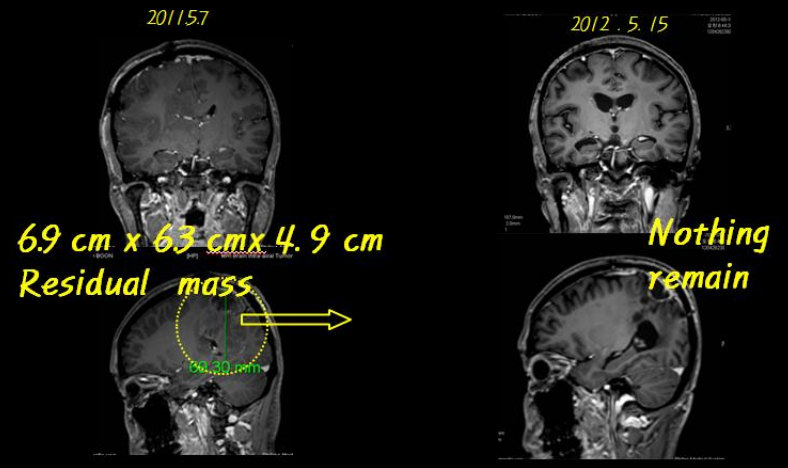
Just after      2month after RT &      5month after C2



49x63x69cm (WxDxH)

23x52x50 cm(WxDxH)

No recurrence  
No enhancing mass



6.9 cm x 6.3 cm x 4.9 cm  
Residual mass

Nothing  
remain

Post operation  
4.9x6.3x6.9 (WD.H)  
residual mass

11 month After C2  
Therapy  
No recurrence  
No enhancing mass

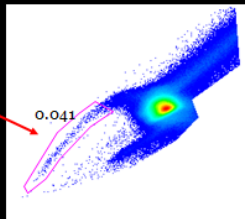
# What are the mechanisms underlying the amazing effects of Korean herbal mixture C2 in GBM patients?

## The cancer stem-like side population (SP) cells

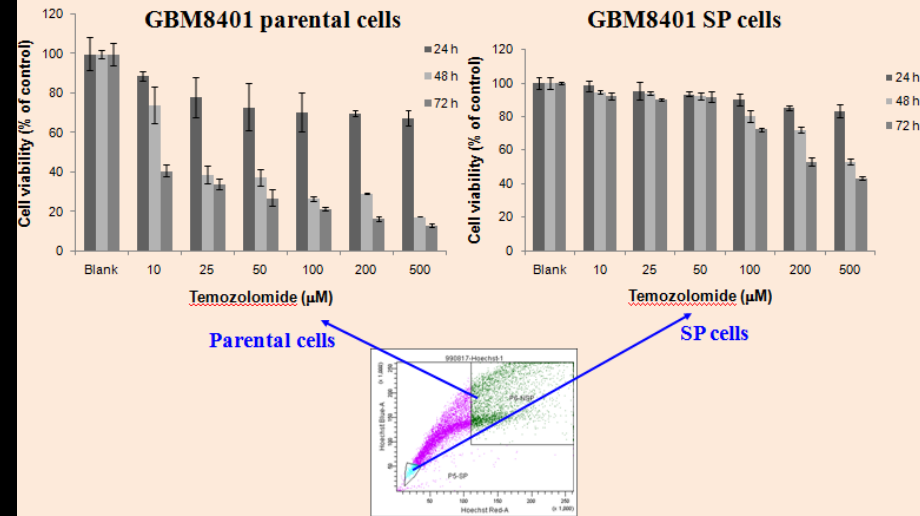
Multidrug efflux pumps and cancer stem cells: insights into multidrug resistance and therapeutic development

---[Clin Pharmacol Ther](#) 2011 Apr;89(4):491-502.

With the capacity to pump out the DNA binding dye hoechst 33342, the signals of cancer stem cells fell to the “side” of the bulk positively stained cells in fluorescence activated cell sorter (FACS) analysis plots and were referred as side population (SP) cells

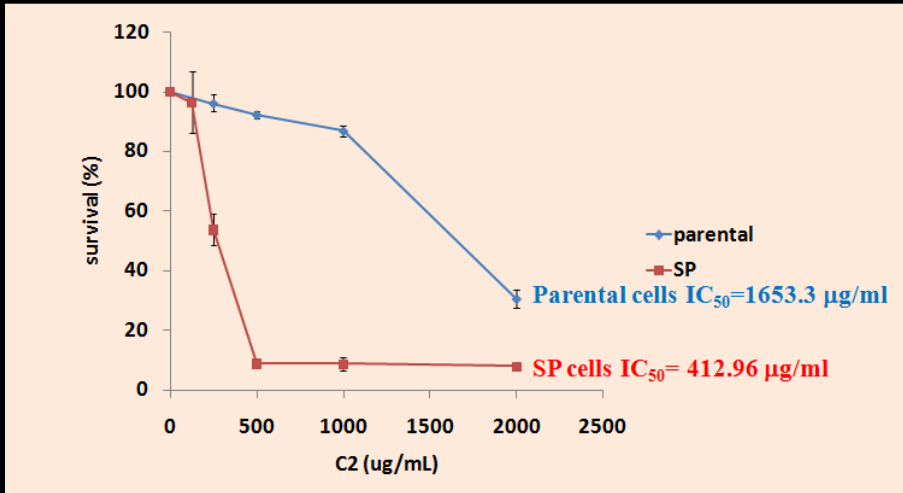


The GBM8401 SP cells were more resistant to temozolomide than the parental GBM8401 cells

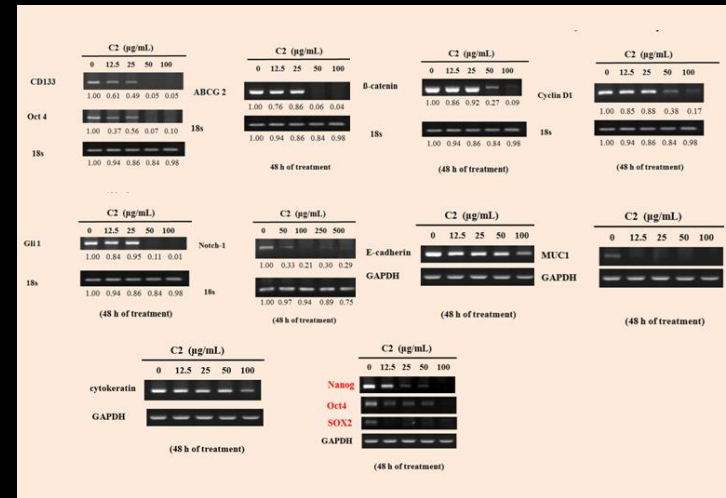


**Temozolamide has no effect on GBM8401 stem cells**

**The cancer stem-like SP cells were more sensitive to Korean herbal mixture C2 than the parental population cells**



Effect of C2 on cell viability of GBM 8401 parental and SP cells (48 h of treatment).



**Conclusions**

**Korean herbal mixture C2 preferentially suppressed the cancer stem-like side population cells rather than the parental cells in GBM8401 cells.**

The effects of C2 may be associated with its inhibitory effects on the stemness genes (CD133, β-catenin, Gli, Notch-1, OCT-4, Nanog, SOX2, ABCG2, ABCB5) C2 also inhibited the mRNA of MUC1, E-cadherin and cytokeratin, which were reported to play important roles in cancer stem cells.

The above effects of C2 on the cancer stem-like side population in GBM cells may explain the its amazing clinical effects founded by Dr. Han Tae-Young.

# Research

- *My cases (especially about stage IV. Pancretic, cholangio, and GB cancer) were studied statistically*
- *by AJU medical university radiologic and oncology parts, and the researches were funded by the South Korean Ministry of health and Welfare (2010).*
- *Four Universities in South Korea are doing Researches about My herbal medications MSG0500 and MSB0052 know.*
- *And the researches are funded by South Korean Ministry of Health and Welfare (2012- 2016).*
- *The Universities are getting about 1.5 million dollars fund.*

# 희귀 유전적 난치성 섬유종증·악성신경초종 복합제제로 치료 ‘물꼬’

## 서울의대 安孝燮·申熙泳교수팀, ‘MSG500’ 개발

국내 연구진에 의해 임상에서 치료가 불가능하다고 판정된 유전적 난치성 질환인 재발성 섬유종증과 악성신경초종환자치료에 탁월한 효과를 보이는 복합제제인 ‘MSG500’이 개발됐다.

서울의대 소아과학교실 安孝燮·申熙泳교수팀(한태영·반룡인수한의원)은 최근 복합약물인

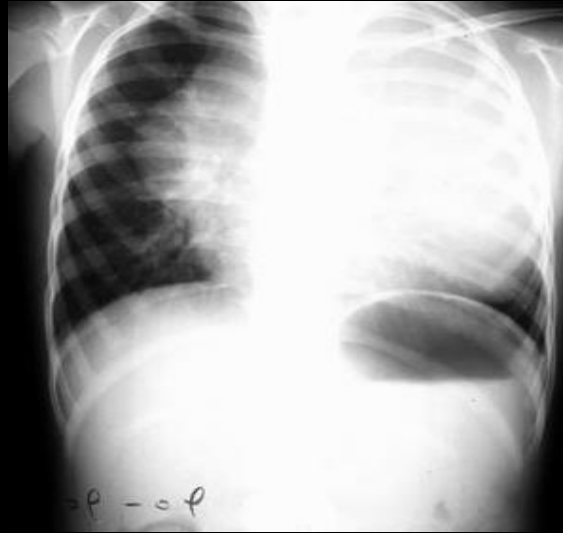
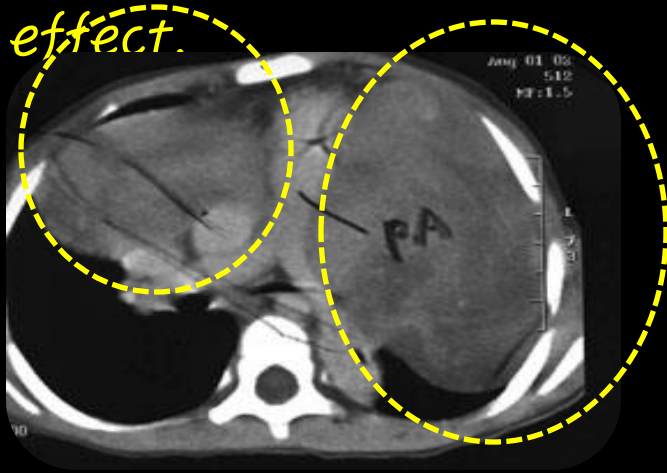
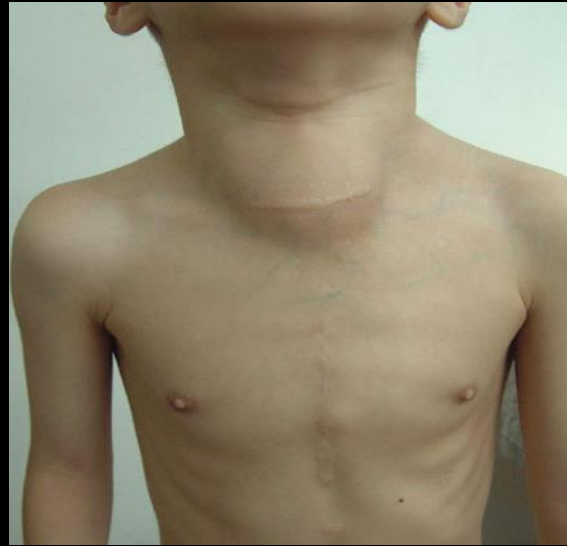
‘MSG500’을 새로 개발, 대상 환아에게 3개월간 투약한 결과 종양이 감소되는 탁월한 효과를 입증했다. ‘MSG500’으로 명명된 이 복합제제는 상황 등 천연물을 기본으로 한 천연물질로, 섬유화가 기본병리인 질환에 효과적이라는 판단하에 그간 선행 연구가 진행되어 왔다.

연구진에 따르면 재발된 섬유종증 환자(6세, 남)는 심장 앞쪽의 섬유종으로 3차례의 수술과 항암치료, 방사선치료에 이어 미국 NIH, NCI에 도움을 요청했으나 치료가 불가능하다는 판정을 받고 ‘MSG500’을 투여했다. 또 밀크커피 반점 등으로 신경섬유종증으로 진단받은 환아(6, 여)는 다리에 발생한 종괴가 증가, 조직검사상 악성 신경초종으

# Case Recurrent myofibromatosis ( M/5 years old)



Progression of myofibromatosis After 3<sup>rd</sup> operation. Chemotherapy and RT treatment had no effect.



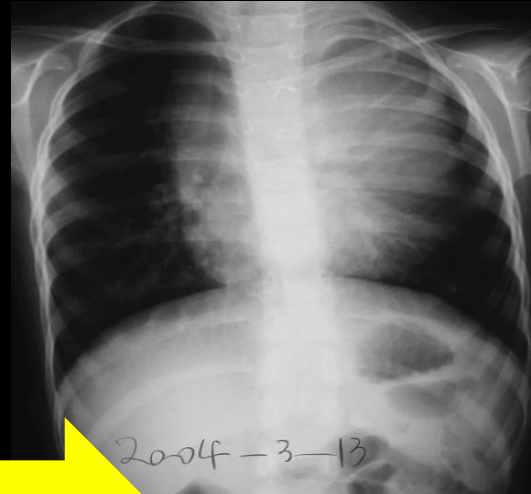
# Refractory fibromyosarcoma treated with herbal medication MSG0500

Before 2002. 9. 9  
435 CC 100 %



At first -  
inoperable  
14.7x7.8x 11 cm  
84 % reduction

After 2004. 3. 13  
70CC 16%



Could  
Remove  
the mass

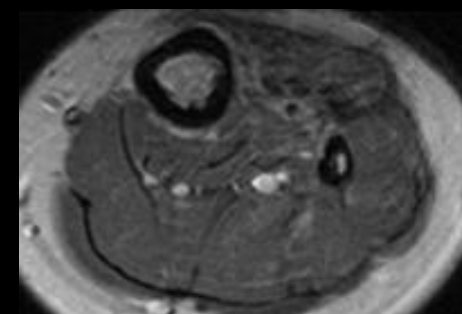
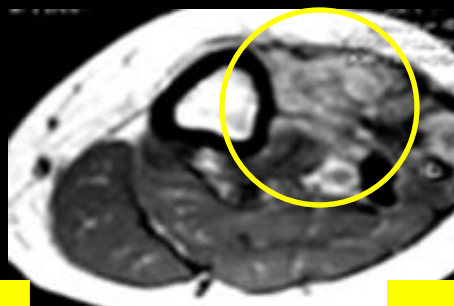
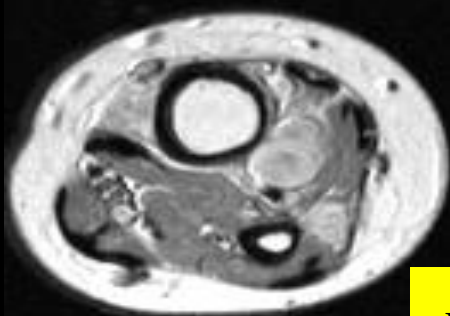


# *Malignant Peripheral nervesheat tumor.*

Before /2003.1.15

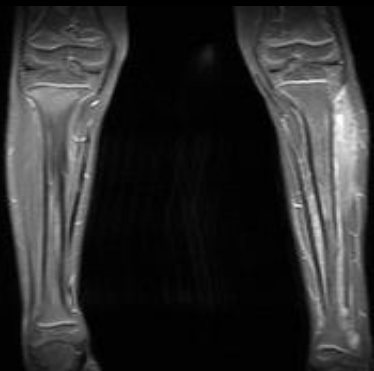
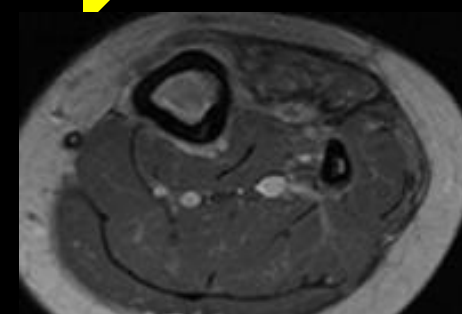
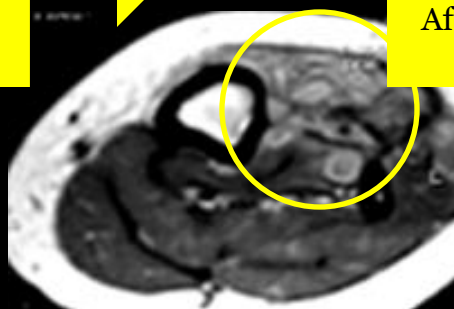
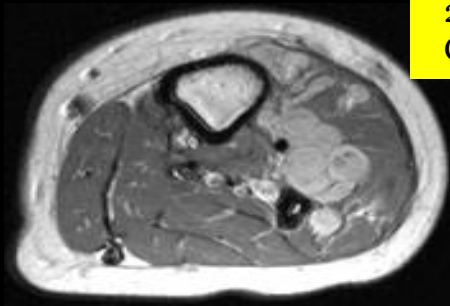
10mo/ 2003.11.15

15 mo/ 2004. 5



Recurred after  
2<sup>nd</sup>  
Operation  
2<sup>nd</sup>  
Chemotherapy

Almost  
Disappeared  
By MSG0500  
After 5 mo



*3 years herbal medication therapy*

*No recurrence by 2012.10. for 10 years.*

# Possibility of Alternative Medicine in the field of Pediatric Hematology-Oncology: Analysis of 7 cases of Unexpected Outcome by Modern Medicine.

by Doctor Hee Young Shin- Seoul National University. Cancer Research Institute.

## 현대의학으로 설명하기 힘들었던 7중례의 난치성 소아혈액종양질환에서 대체의학의 경험

박은실<sup>1</sup> · 한보윤<sup>2</sup> · 김민선<sup>2</sup> · 신희영<sup>2</sup> · 안효섭<sup>2</sup>

<sup>1</sup>경상대학교 의학전문대학원 건강과학연구소, 소아과학교실, <sup>2</sup>서울대학교 의과대학 암연구소, 소아과학교

## Possibility of Alternative Medicine in the Field of Pediatric Hematology-Oncology Analysis of 7 Cases of Unexpected Outcome by Modern Medicine

Eun Sil Park, M.D.<sup>1</sup>, Boyun Han, M.D.<sup>2</sup>, Min Sun Kim, M.D.<sup>2</sup>,  
Hee Young Shin, M.D.<sup>2</sup> and Hyo Seop Ahn, M.D.<sup>2</sup>

<sup>1</sup>Department of Pediatrics, Institute of Health Science, Gyeongsang National University School of Medicine, J

<sup>2</sup>Department of Pediatrics, Cancer Research Institute, Seoul National University College of Medicine, Seoul, K

Table 1. Characteristics, treatment, and outcome of patients

No. of cases	Diagnosis	State when alternative medicine started	Alternative medicine	Outcome
1	Infantile fibrosarcoma	Third relapse with multiple coin lesions in both lungs	Acupuncture twice a week	No progression of tumor for 10 years
2	<u>Recurrent fibromatosis</u>	Progression of fibromatosis after third operation	Herb medication with dietary control	Regression of fibromatosis enabling surgical removal
3	<u>Malignant peripheral nerve sheath tumor</u>	Progression of enhancing lesion of leg on MRI	Herb medication with dietary control	Stable state of enhancing lesion of leg
4	<u>Inflammatory myofibroblastic tumor</u>	Inoperable due to wide gastro-intestinal involvement	Herb medication with dietary control	Regression of tumor and stable for 7 years
5	Hepatic adenoma-multiple nodular hyperplasia	Liver failure waiting for liver transplantation	Dietary control and exercise	Improved liver function and decreased size of focal nodular hyperplasia
6	<u>Renal cell carcinoma</u>	Operation after second relapse	Dietary control	No recurrence of tumor for 8 years
7	Chronic ITP	Unresponsive to treatment waiting for splenectomy	Cepharanthin	Complete recovery of platelet count

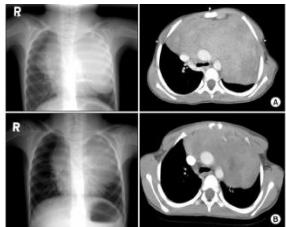


Fig. 2. Huge mass at right mediastinum was increased despite of chemotherapy, radiation therapy (4,000 cGy), interferon- $\alpha$ , interferon- $\gamma$  and tamoxifen (4), after taking herbal medicine including Phellinus linteus extract. mediastinal mass was dramatically decreased 3 months later (B) and partial resection was possible 2 years later.

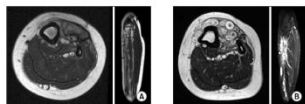


Fig. 3. Residual masses were observed at anterior portion of ribs and medial portion of tibia (A). At that time her parent don't want to continue chemotherapy. Thereafter, she take a herbal medicine including Phellinus linteus extract and dietary control adjusted her constitution based on Gyeong Jeongdo. Enhanced lesions on MRI were persisted but not progressed significantly (B).

## *Paediatric cancer not known any treatment medication*

- 1. Recurrent fibromatosis*
- 2. malignant peripheral nervesheat tumor*
- 3. Inflammatory myofibroblastic tumor*
- 4. Hepatic adenoma multiple –nodular hyperplasia*
- 5. Renal cell carcinoma*

Never succeeded before by western medicine,  
and treated successfully

By Banrong Insu herbal Clinic herbal medication

MSG0500

And published by Hee Young Shin , Seoul National  
University . Paediatric oncology part.

*POWER OF YIN YANG*

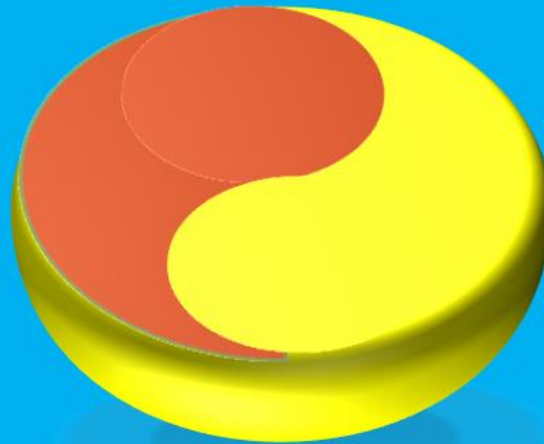
*Modern interpretation of constitutional type by doctor Han*

**Na** -estrogen

**K**-testosterone

**Summer type**

**autumn type**



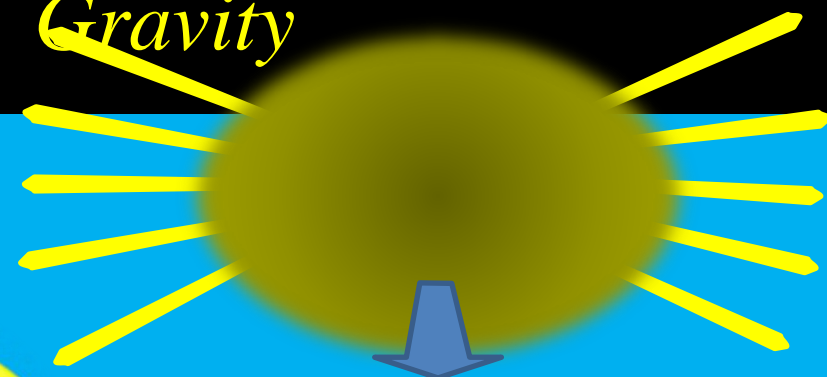
**Spring type**

**winter type**

**Ca**- progesterone

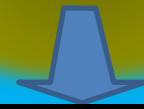
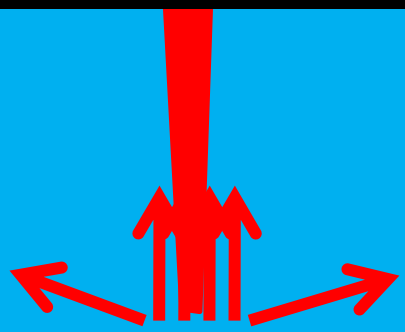
**P** -androgen

- *Then, we learn more precisely about Yin & Yang*
- *What is Yang? –it is vector of Energy*
- *What is Yin? –it is vector of Gravity*



ENERGY

GRAVITY



**YIN - YANG IN THE NATURE**  
**YIN – YANG IN THE BODY**

*Yang state*

*Energy > gravity*

*Movable*

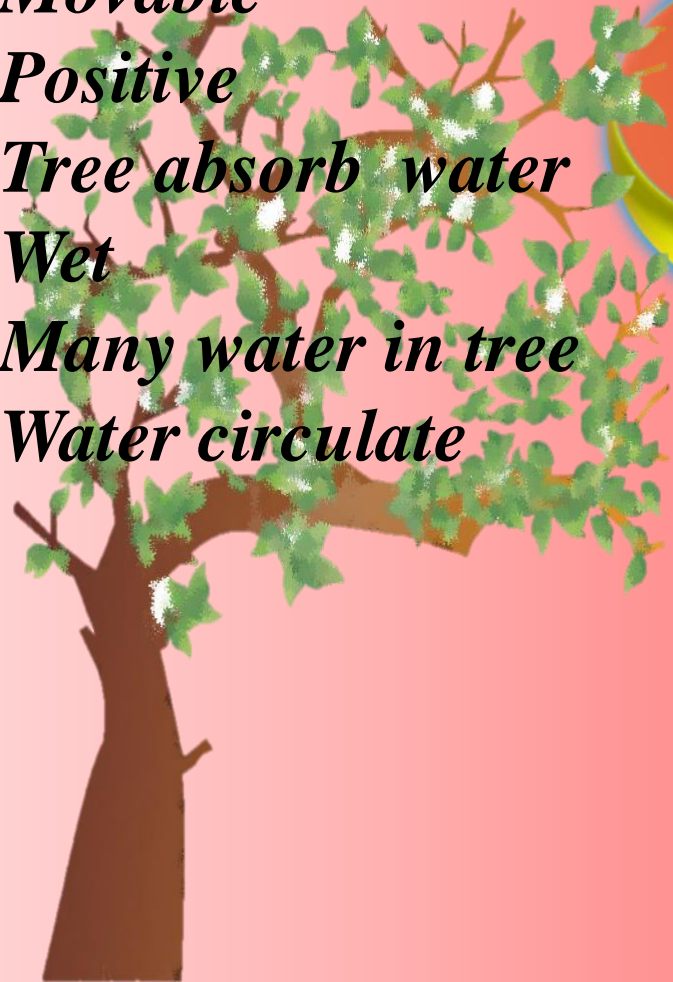
*Positive*

*Tree absorb water*

*Wet*

*Many water in tree*

*Water circulate*



*Yin state*

*Energy < gravity*

*Not Movable*

*Negative*

*Tree excrete water*

*Dry*

*Small water in tree*

*Water stop movement*



# ***In summer trees can absorb water***



If we take more sodium,  
( $na > k$ )

Our body  
absorbed water

Become

Hypervolemic

State

# ***In winter trees cannot absorb water***



If we take more  
potassium ,  
( $K > Na$ )

Our body urinate

Excrete water

Become

HypOvolemic

State

# DON'T BE AFRAID OF CANCER. AFRAID ABOUT COOL BODY



CLIMBING SAUNA



SAUNA



SALTY SPICY

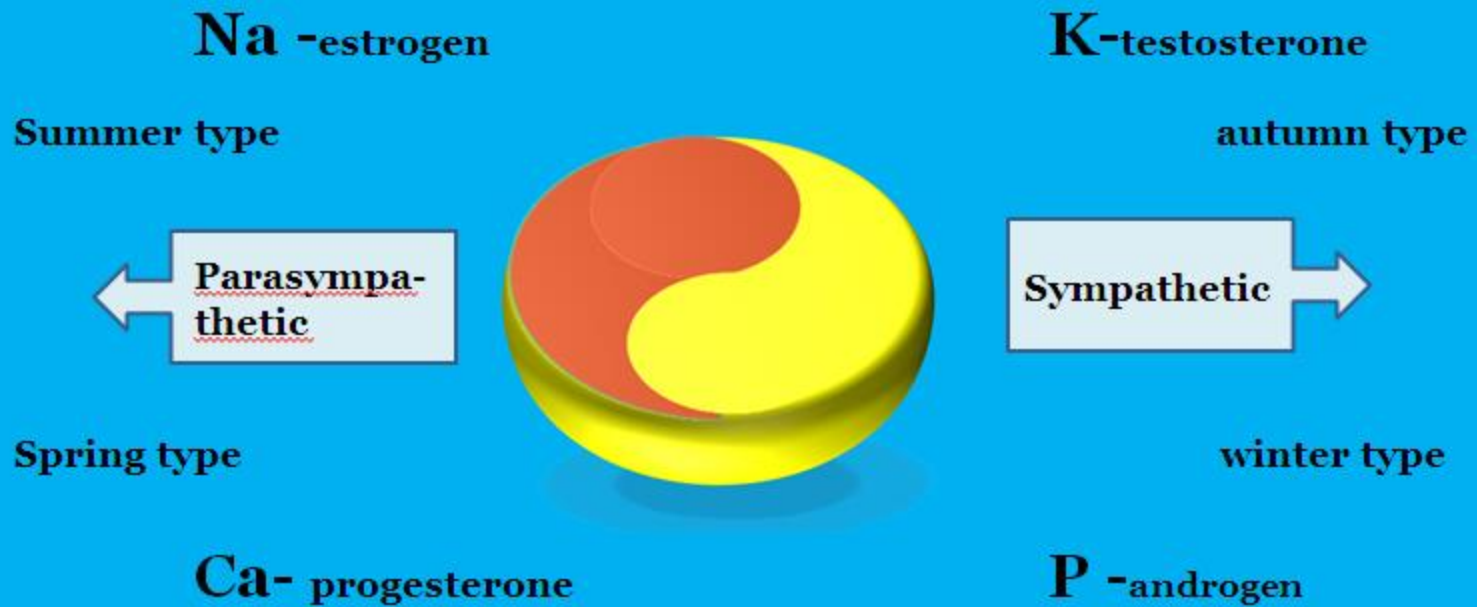


EXERCISE



Graphic Leftovers



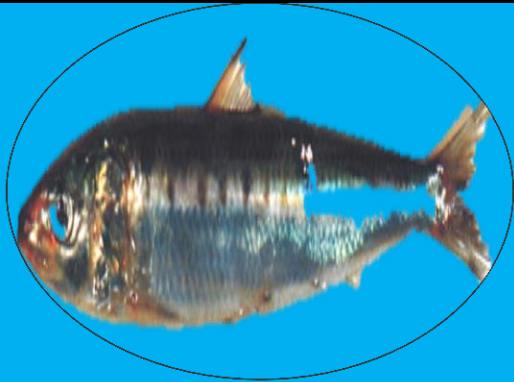


River fish swelling by sodium  
Because they cannot excrete sodium

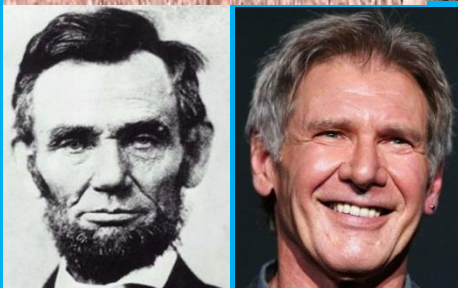
Sea fish doesn't swell by sodium  
Because they always excrete sodium



*Yang type swelling by sodium  
Because they cannot excrete sodium*



*Yin doesn't swell by sodium  
Because they always excrete sodium*



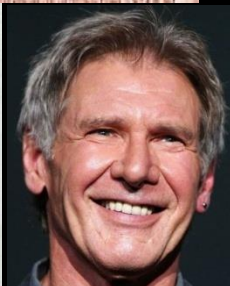
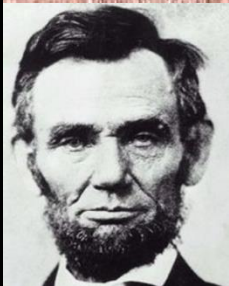
*Yang type swelling by sodium*

*Because they cannot excrete sodium*



*Yin doesn't swell by sodium*

*Because they always excrete sodium*



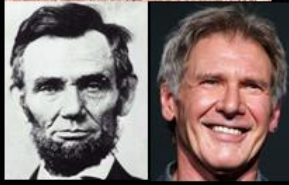
# The level of water absorbed by sodium

High sodium sensitivity

*Yang type swelling by sodium  
Because they cannot excrete sodium*

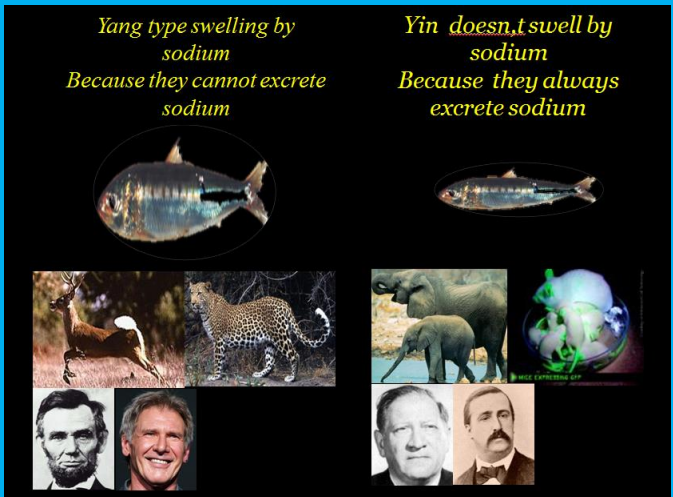
*Yin doesn't swell by sodium  
Because they always excrete sodium*

Low sodium sensitivity



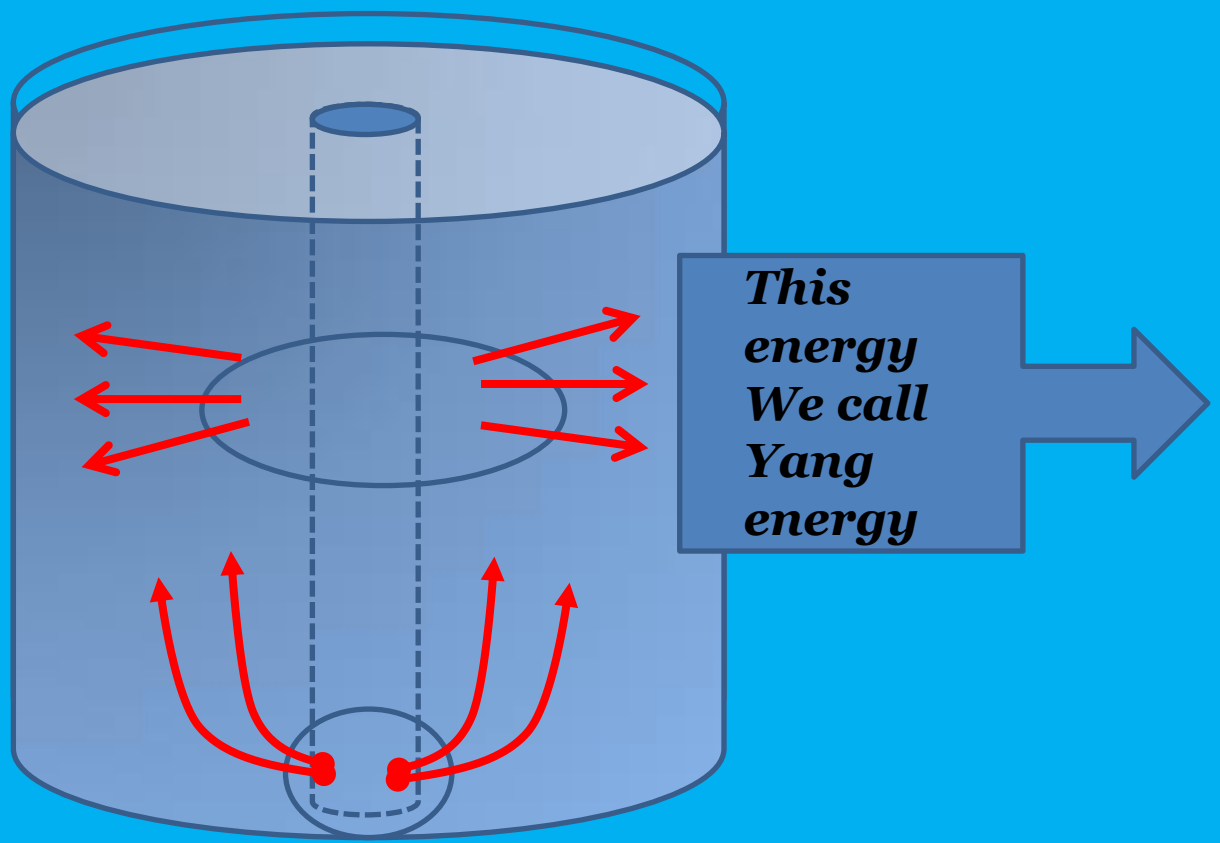
Low potassium sensitivity  
Urinate less

high potassium sensitivity  
Urinate more

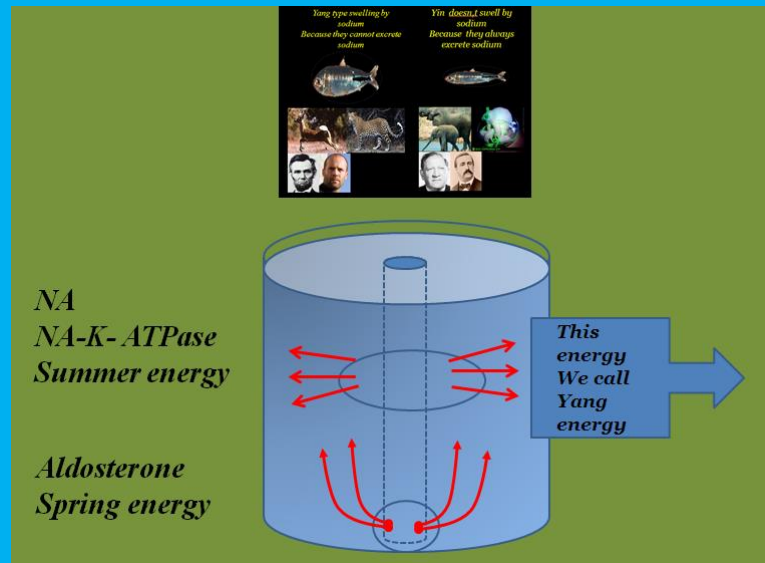


*NA*  
*NA-K-ATPase*  
*Summer energy*

*Aldosterone*  
*Spring energy*



**Yang type**  
**Spring**  
**Summer**



*Homeostasis of yin and yang*



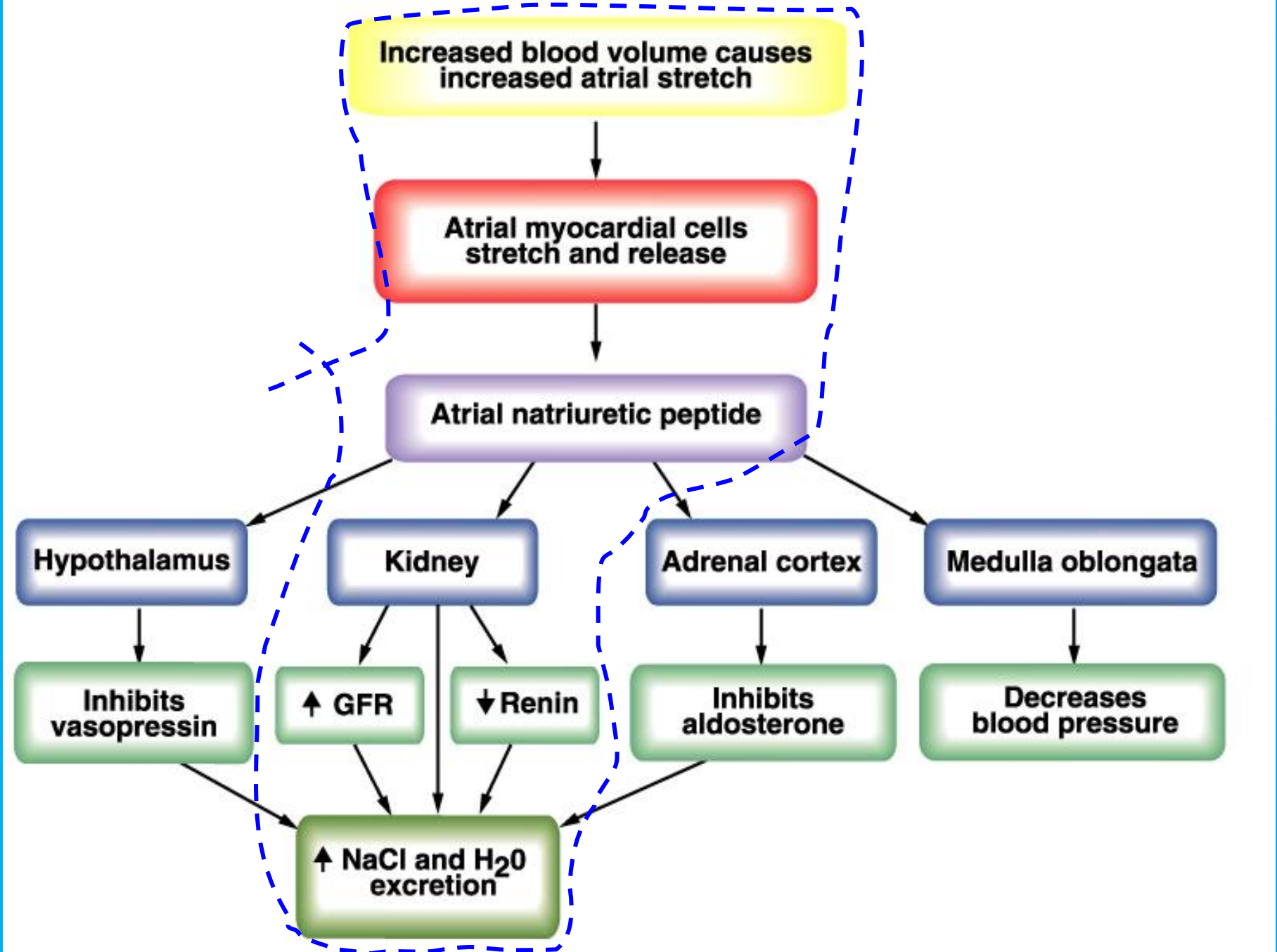
By sodium  
increase  
absorbtion  
of water

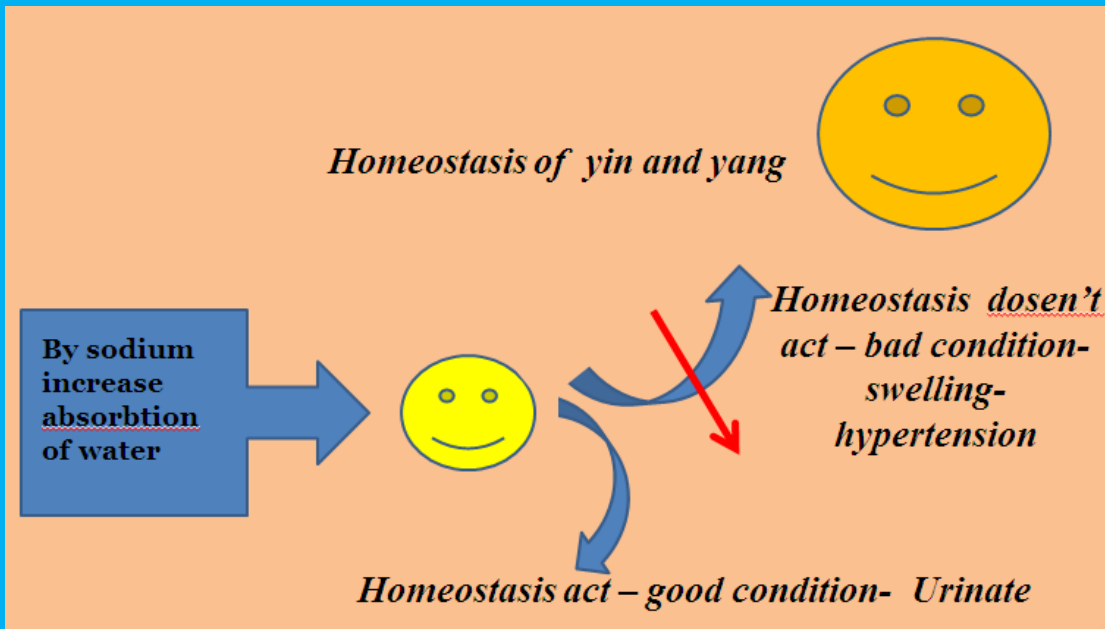


*Homeostasis dosen't  
act – bad condition-  
swelling-  
hypertension*

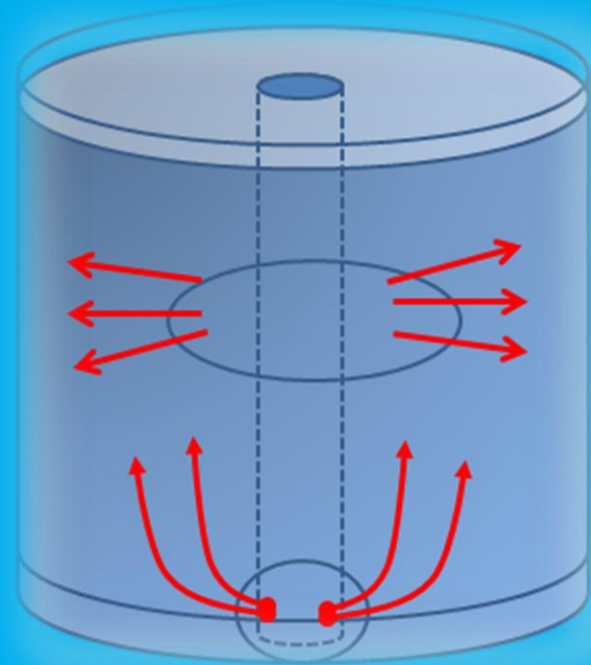
*Homeostasis act – good condition- Urinate*

# Factors affecting release of Atrial Natriuretic Peptide.





*Digoxin- for inhibiting NaK aptase*  
*Aldosterone inhibitor*  
*Alpha adrenergic antagonist*  
*Prazocin*  
*Doxazocin*  
*Harnal. Cadura.*

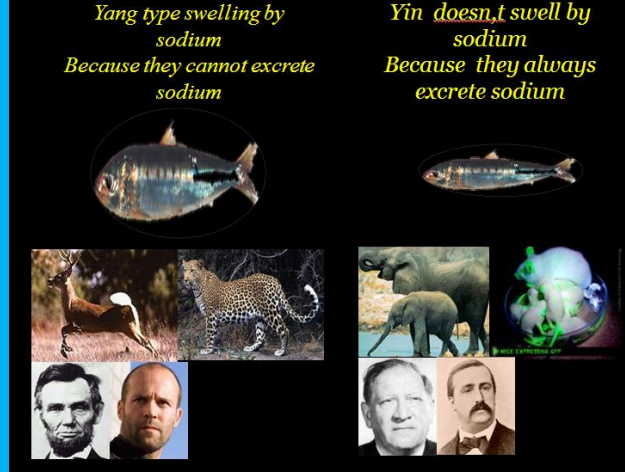


# Homeostasis act

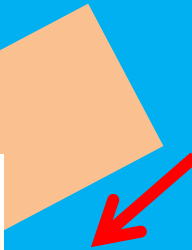
-Good condition

-Aldosterone absorb water

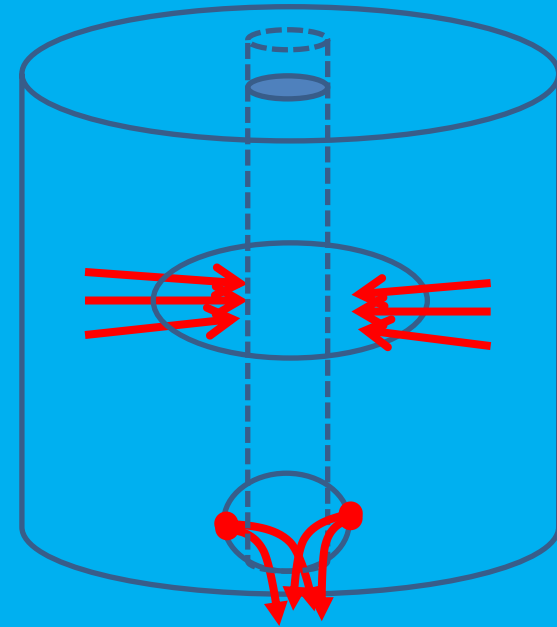
for reserve blood volume



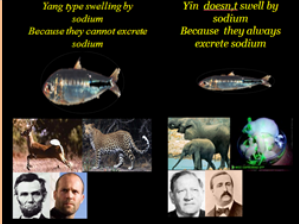
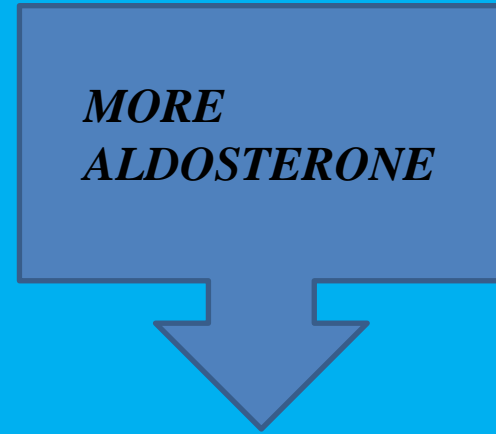
Yin type by potassium excrete urine



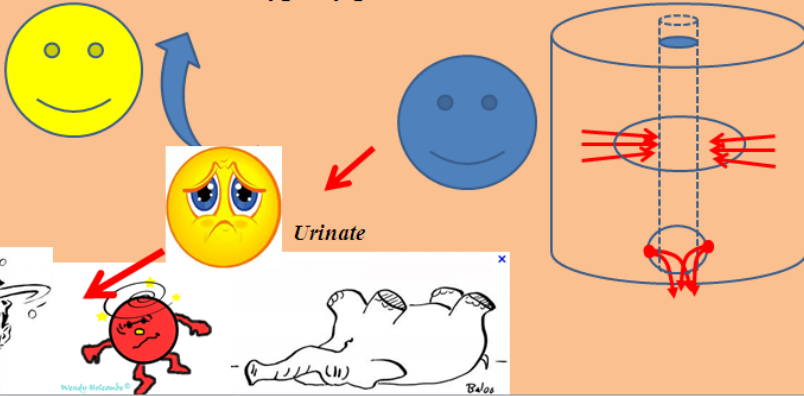
Urinate



# PARADOX OF HYPOTENSION

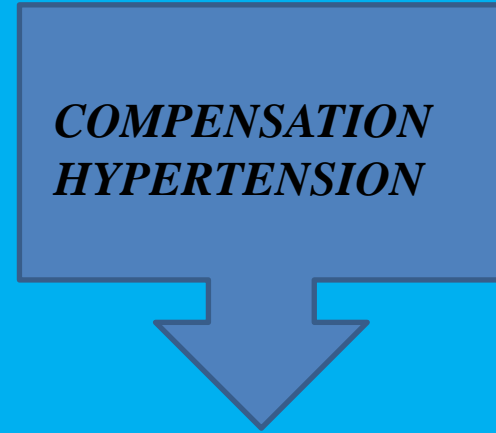


Yin type by potassium excrete urine



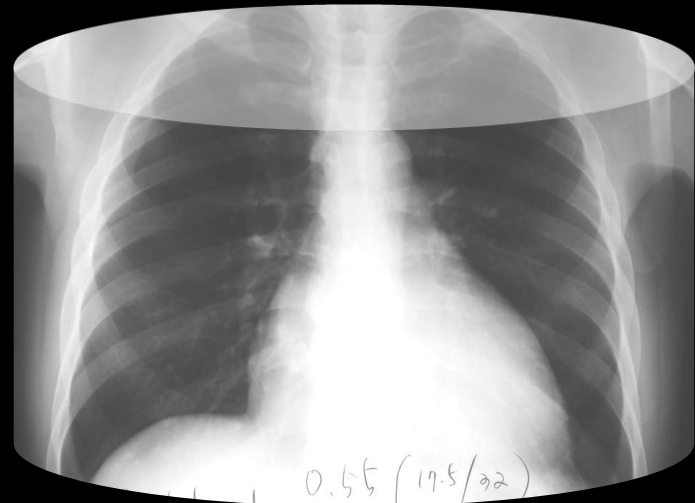
*Beta blocker for autumn type  
Calcium channel blocker  
For winter type  
Releasing the vascular  
Help blood supply to periphery.*

*ACE inhibitor  
A-adrenaline blocker  
Digoxin – \make more serious  
Result  
Compensation hypertension  
Palvitation  
Heart muscle more strongly  
Cardiomegaly*



# *Autumn & Winter type hypertension*

- $V \times p \times F = K$
- *Volume . Pressue Frequency. Constant*
- *WATER EXCRETE BY SWEAT. URINE*
- *OR FOR HYGH GLYCEMIA*
  - $V \rightarrow v$
  - $P \rightarrow p$  - *compensatory hypertension of yin type*
  - $F \rightarrow F$  - *high potassium level*



*Doctor recommend cardio- transplantiion.*

*No salt for 6 months.*

*Very little volume of urine 5 month/ no urine for one month*

*Swelling -gain 20kg body weight. ----. Digoxin/ ACE inhibitor/no salt*

*4.29*

*0.66*

*225cm/34cm*

2 month later  
Stop digoxin  
Change ACE inhibitor  
To Calcium blocker.  
Every day . Sodium 3  
spoon

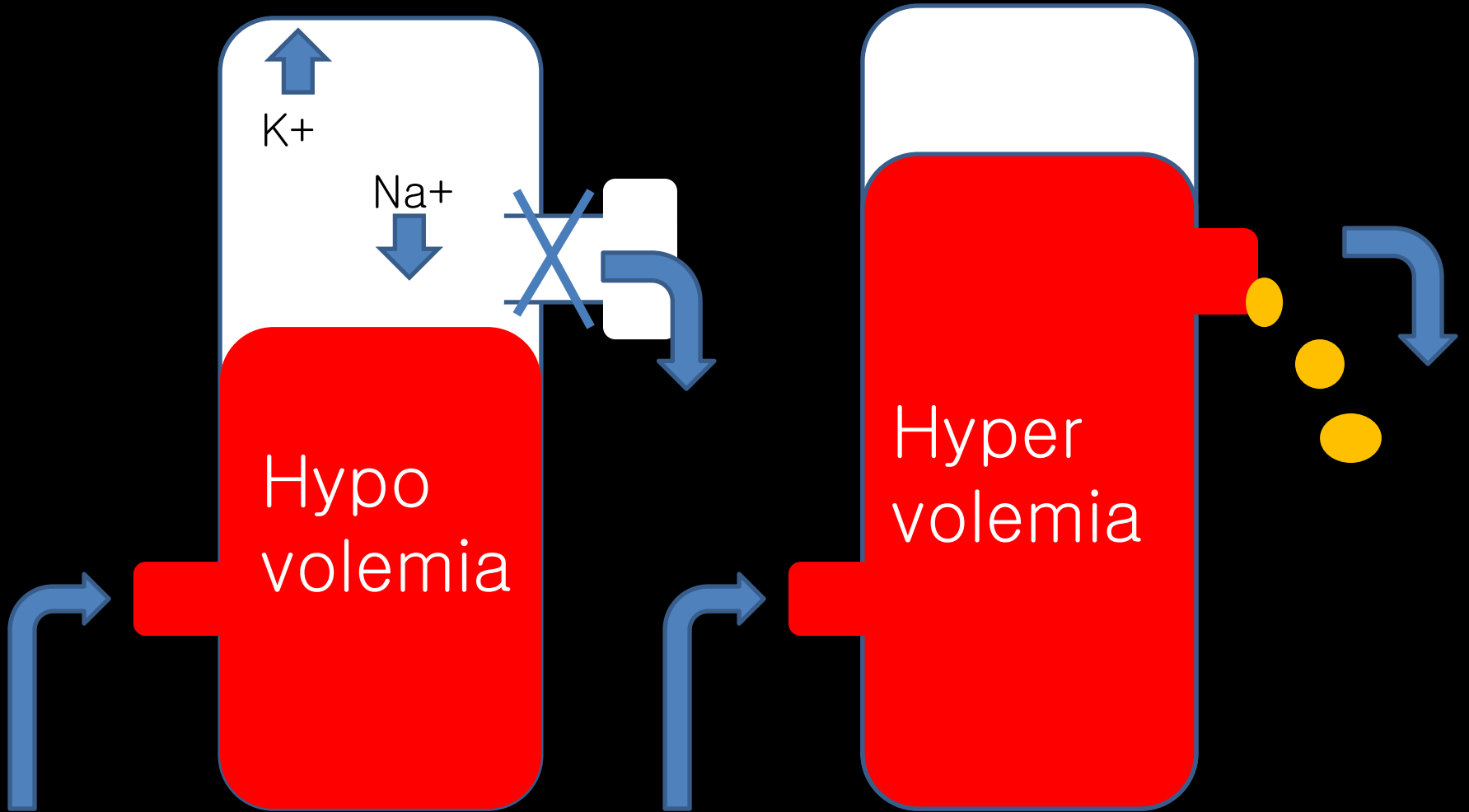
*6.21*

*0.55*

*175cm/32cm*

*Low sodium level  
cannot urinate*

*high sodium level  
can urinate*



# Chronic renal failure

creatinine

6.1 → 2.4

270818

Bun 28.5 H

Creatine 6.1

Uric acid 10.2

Urobilinogen	++
Bilirubin	Negative
Urobilin	Negative
Urobilinogen	Trace
Urobilin	Normal
Urobilinogen	Negative
Urobilin	Negative
Urobilinogen	Negative
Urobilin	Negative
Admission PANEL 13종 (BLOOD(SGS))	
Ca	9.4
P	4.7
Glucose	84
BUN	28.5 ↑
Uric acid	10.2 ↑
Cholesterol	153
T.Protein	6.6
Albumin	3.9
T.Bilirubin	0.4
ALP	166
AST(GOT)	16
ALT(GPT)	15
Creatinine	6.00 ↑
Globulin	2.7
A/G Ratio	1.4
Creatinine	

Dysmorphic RBC.  
Dysmorphic RBC

280324

Bun 14.9 N

Creatine 2.4H

Uric acid 7.8 H

검사결과	
Admission Panel(EMER 13종) (BLOOD(SGS)EMER)	
검사요청일: 2008-03-24	검사일: 2008-03-24 08:54
Glucose	86
BUN	14.9
Creatinine	2.40 ↑
T.Protein	6.7
T.Bilirubin	0.4
AST(GOT)	13
ALT(GPT)	11
Ca	9.1
P	3.0
Albumin	3.7
Cholesterol	138
Uric acid	7.8 ↑
ALP	224 ↑
Globulin	3.0
A/G Ratio	1.2

CBC STAT (BLOOD(EDTA)EMER)	
검사요청일: 2008-03-24	검사일: 2008-03-24 08:54
WBC	4.6
RBC	4.72
Hb	12.9
Hct	38.9

동일 검체 재검결과 5.1

(Urine(Random))

RBC 10개이하 / HPF 인  
환상하기에 부적절하므로

- *Hello Dr. Han,*

*How are you? It's Barnes' friend B(the one with chronic kidney disease). First, I would like to thank you again very much for you seeing me while I was in Korea.*

*I would like to give you an update on my condition.*

- *I went to my doctor back in the states and he was very surprised.*
- *He said he didn't know what the doctors were doing in Korea, but it was definitely working.*
- *So, thank you again.*

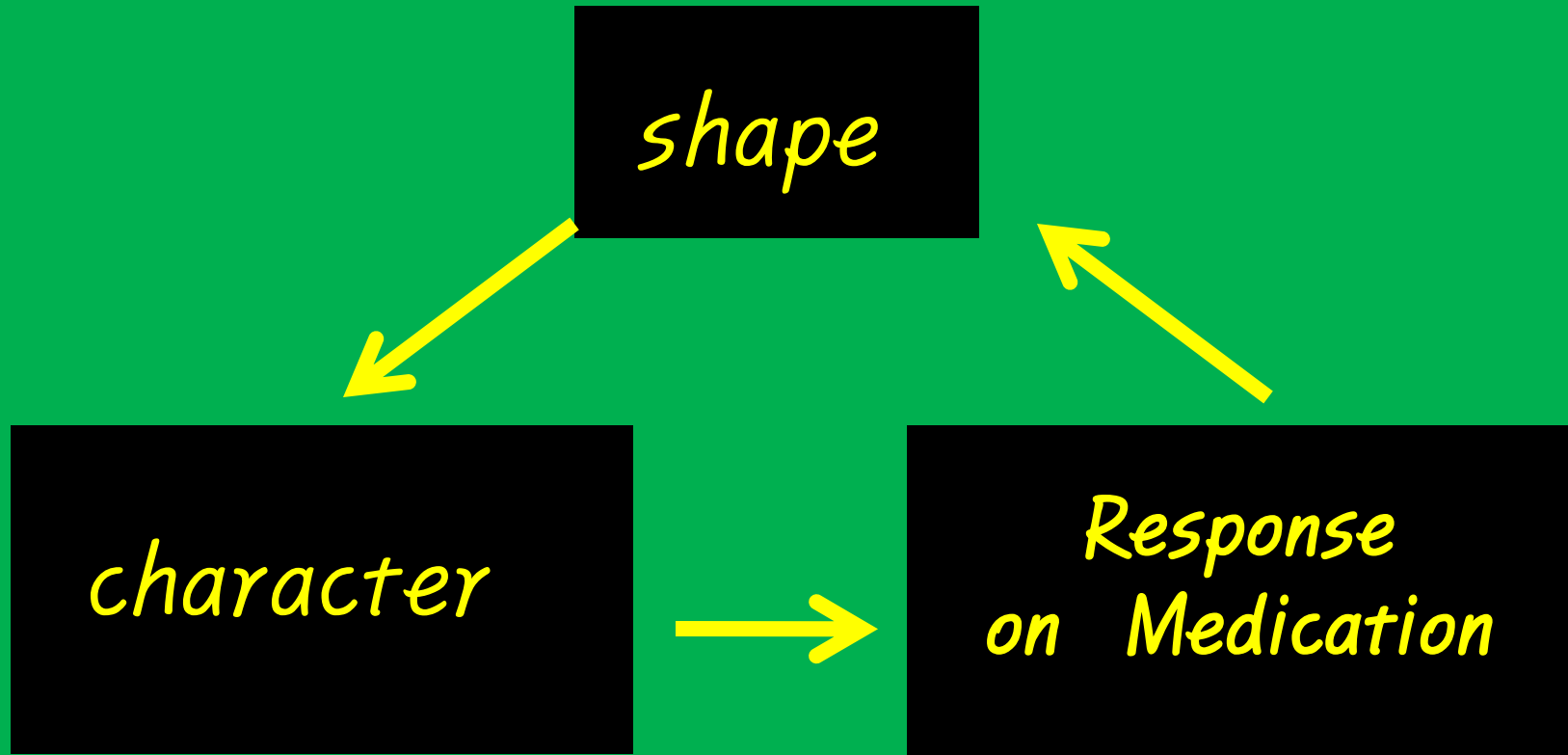
# *Letter from B*

- *Dr. Han,*

*I forgot to tell you my weight.*

- *As of this morning, I'm at 94 kilograms--208 pounds. I don't know how, because just two weeks ago I was still at 108 kilograms.*
- *The high protein diet is definitely working. Thank you.*

*Classification depend on three factors.*



## Spring type

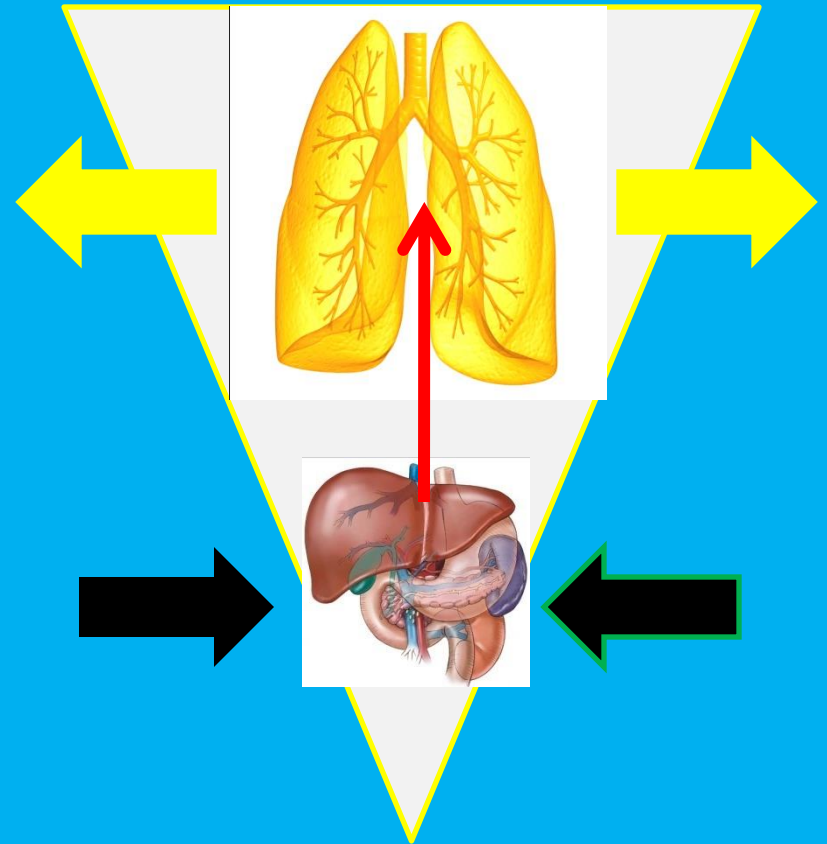
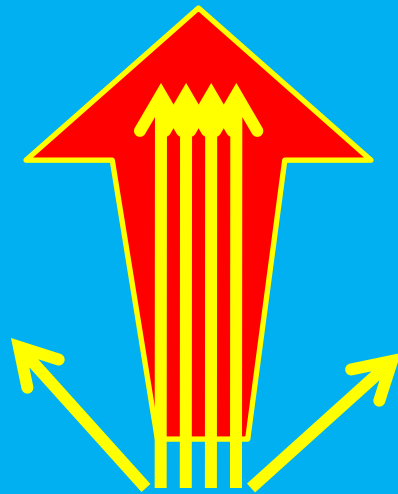


First type, the Spring Type, has **very strong** and **audacious** personality.

They are the ones with creative and innovative ideas, and have energy like spring.

Most of them are workaholics, and

**they never easily give up their belief or opinion.**



**Lift up  
the neck**

**SMALL MANTIS  
DARE TO CATCH  
THE BIG BIRD**

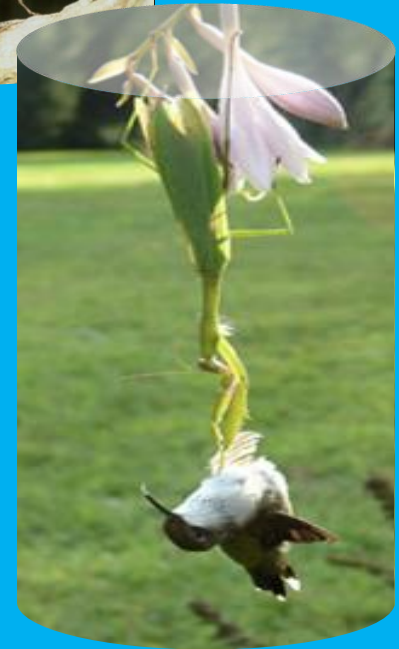
**Hearing  
sense**



**Autumn  
type  
Down the  
neck**



**Strong neck**



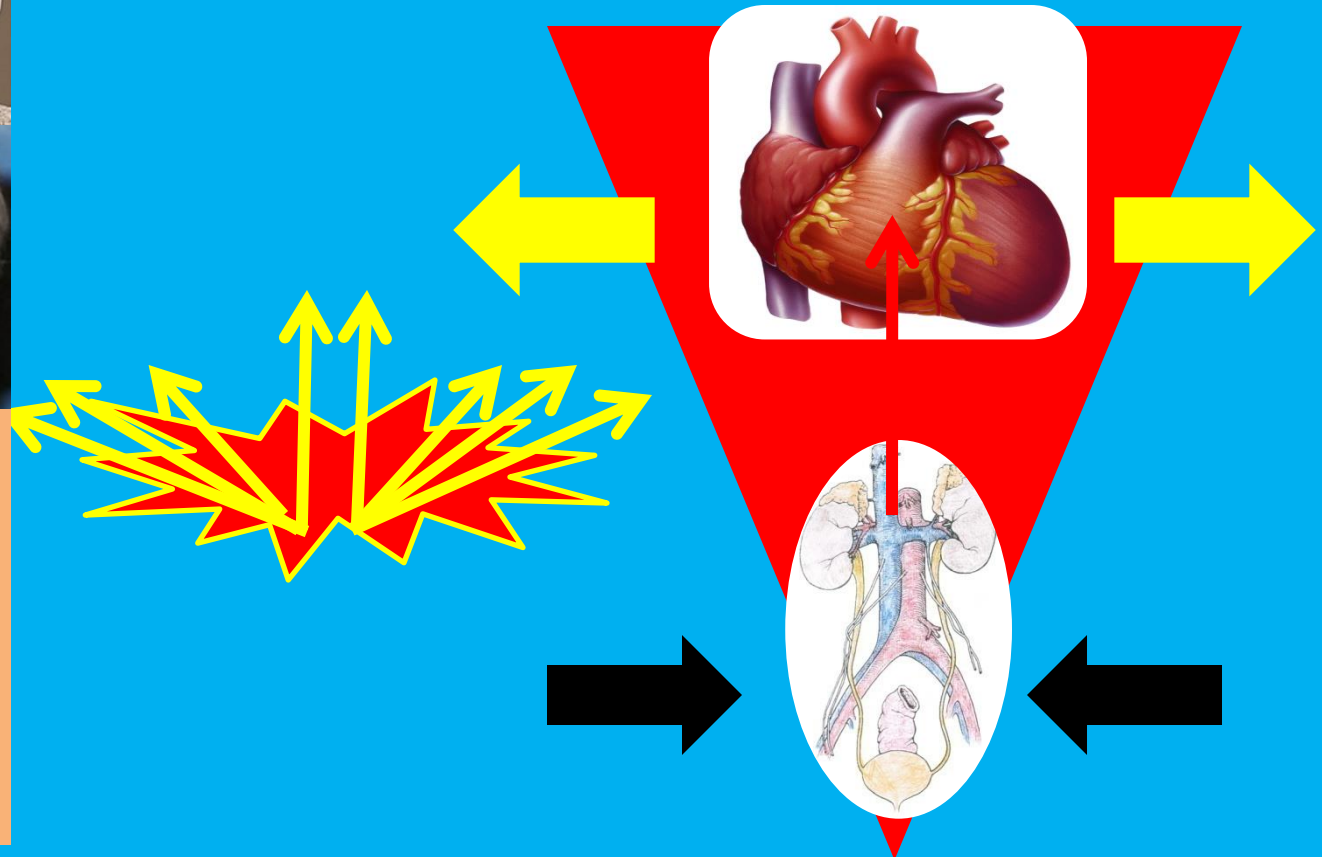
## Summer type



The Summer Types usually have **well developed vision** and they have **quick demeanor** due to their slim and well-fit body.

They are the active and social ones, and they enjoy others' interest on them.

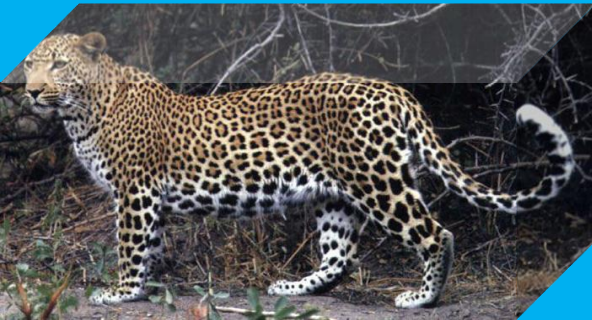
So actors, **artists, businessmen, politicians or social activists** are mostly the Summer Types



*Fast, active, artistic, sensitive, angry*  
*Well vision. Struggle. Positive, showing*



10



## Autumn type



11

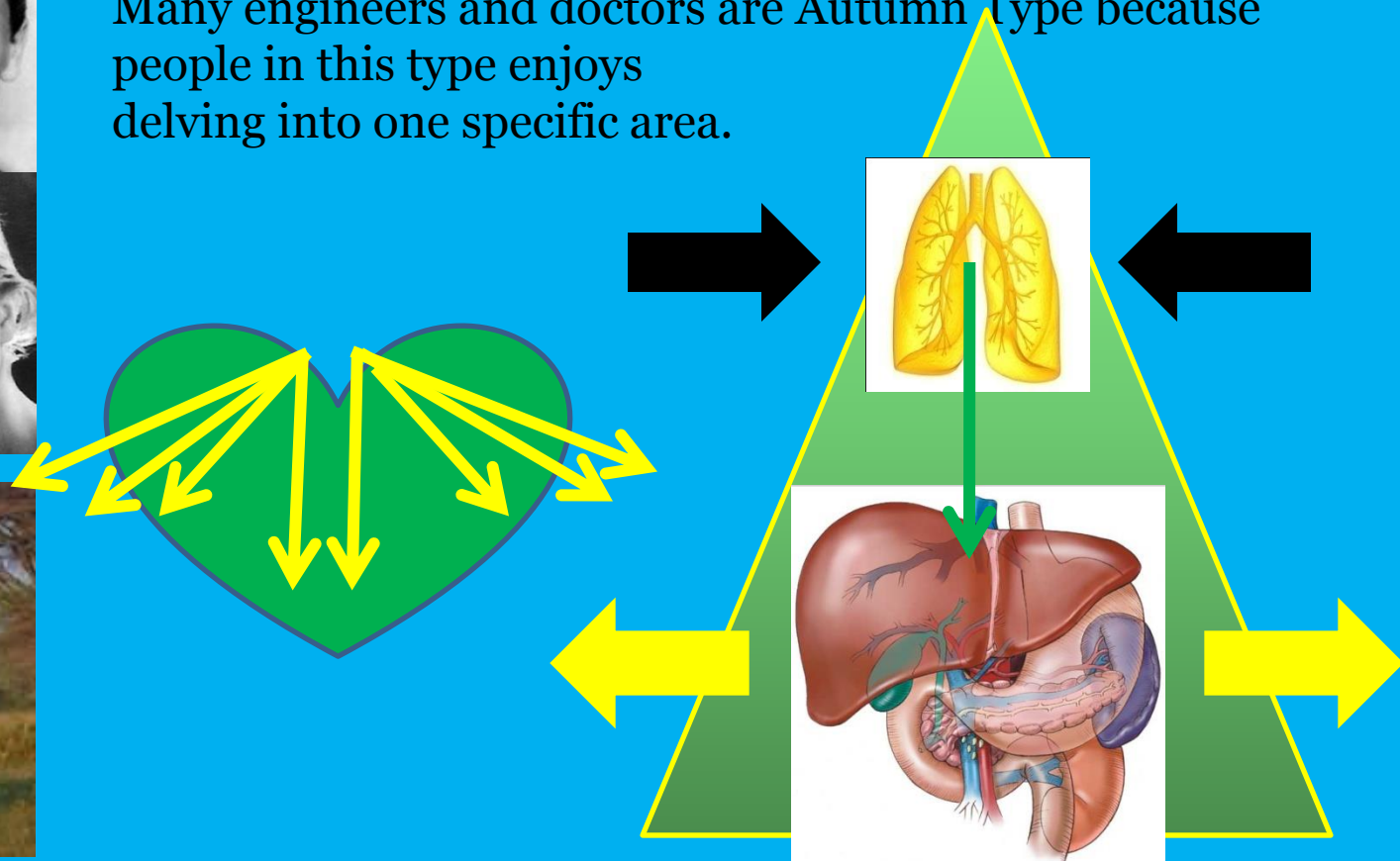
The third type is the Autumn Type.

They are mostly **slow and steady**.

People of Autumn type are **patient and they highly value human relationship**.

They like to spend time with their friends or families and enjoy eating and drinking.

Many engineers and doctors are Autumn Type because people in this type enjoys delving into one specific area.



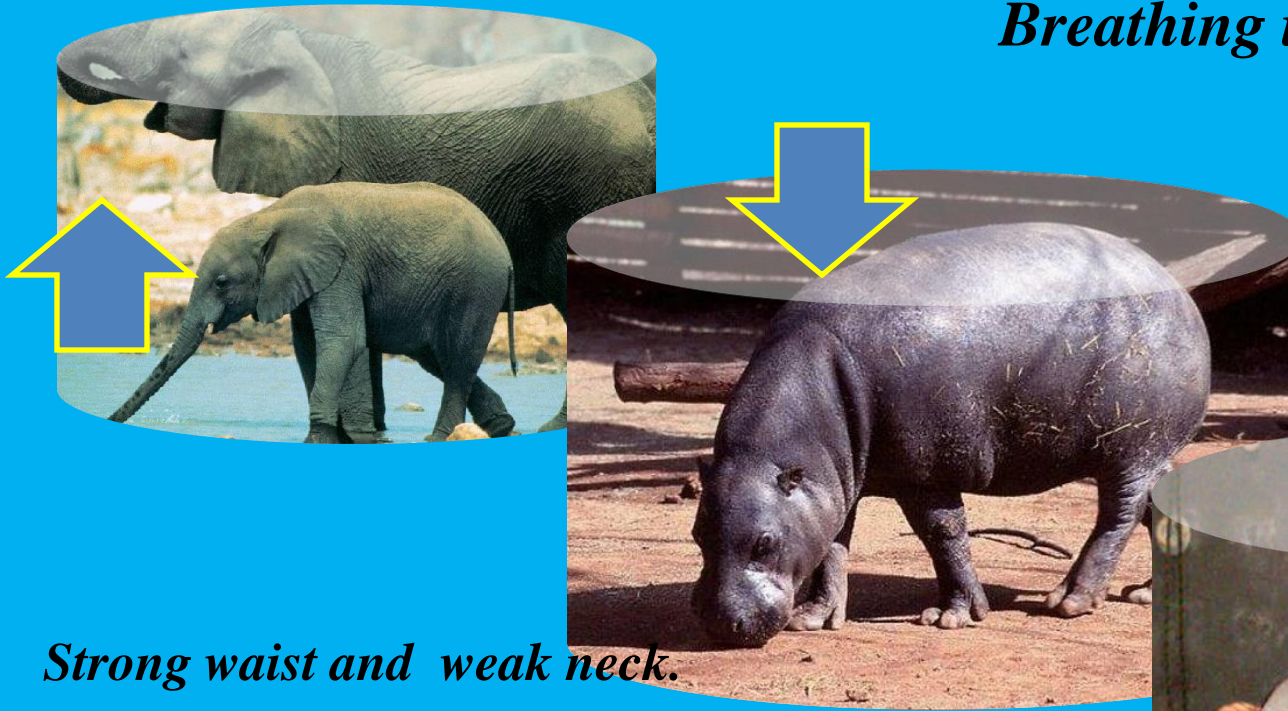
## *Autum type*

*Smell well*

*Good nose*

*Bad hearing*

*Breathing in > Breathing out*



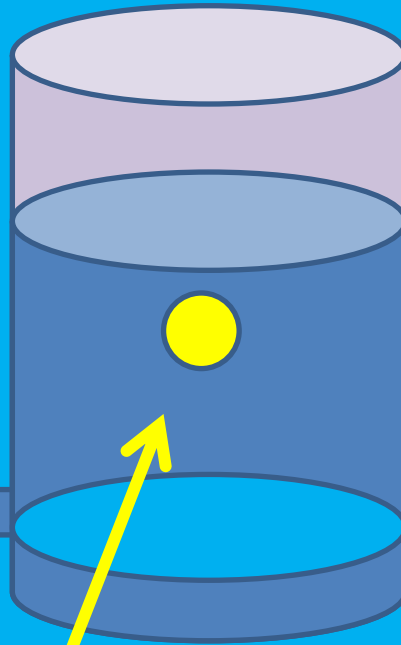
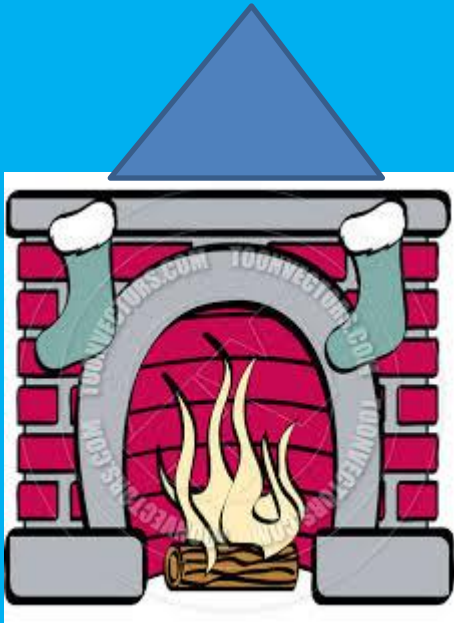
*Strong waist and weak neck.*

*So always try to lift up the neck. And  
must use low pillow  
then the outbreathing became large*

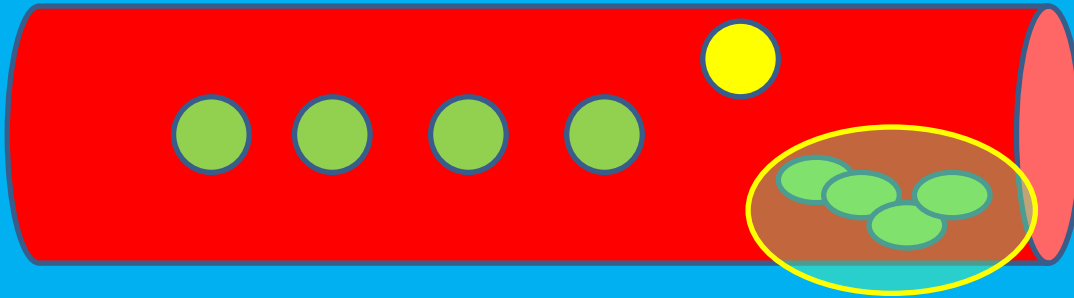
*Supply the blood enough to head*

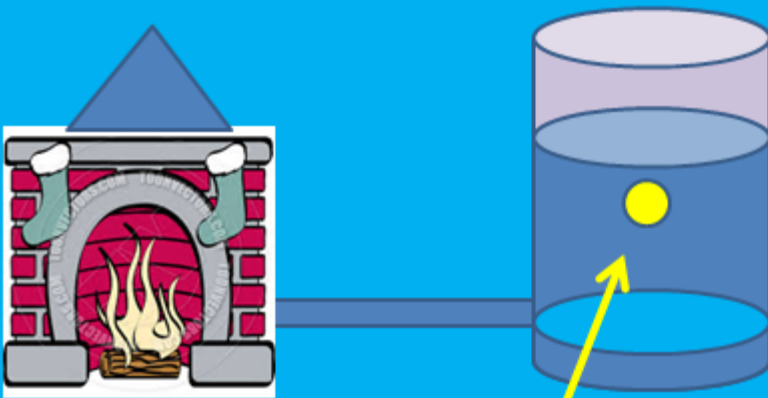
*And the hypertension became down*



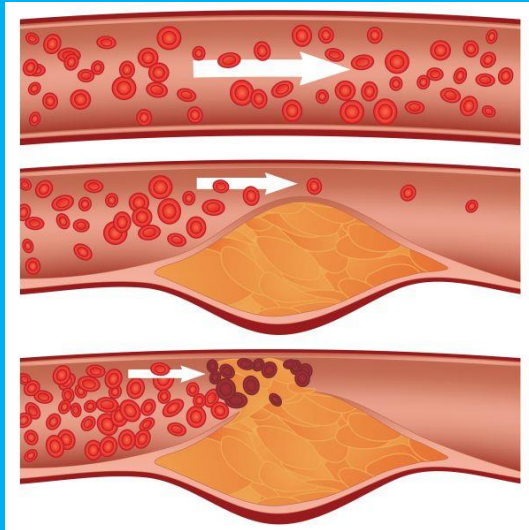


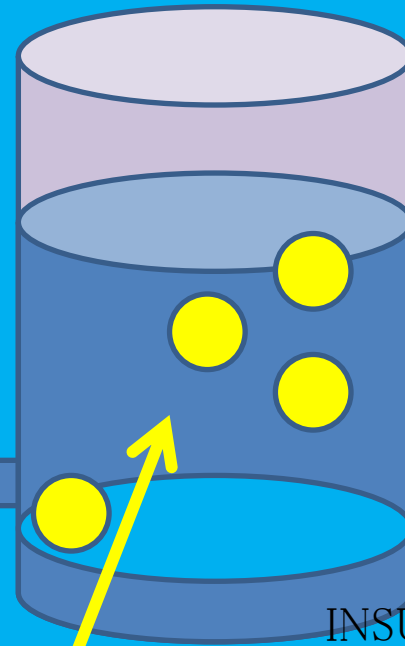
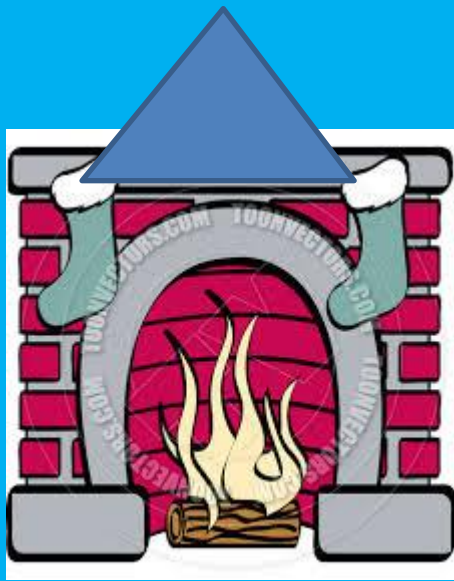
INSULIN &  
SODIUM





INSULIN  
&  
SODIUM





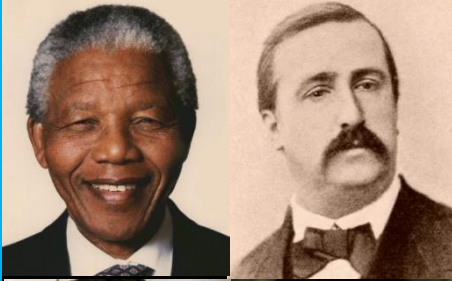
INSULIN &  
SODIUM



**SUGAR & HONEY**



## winter type

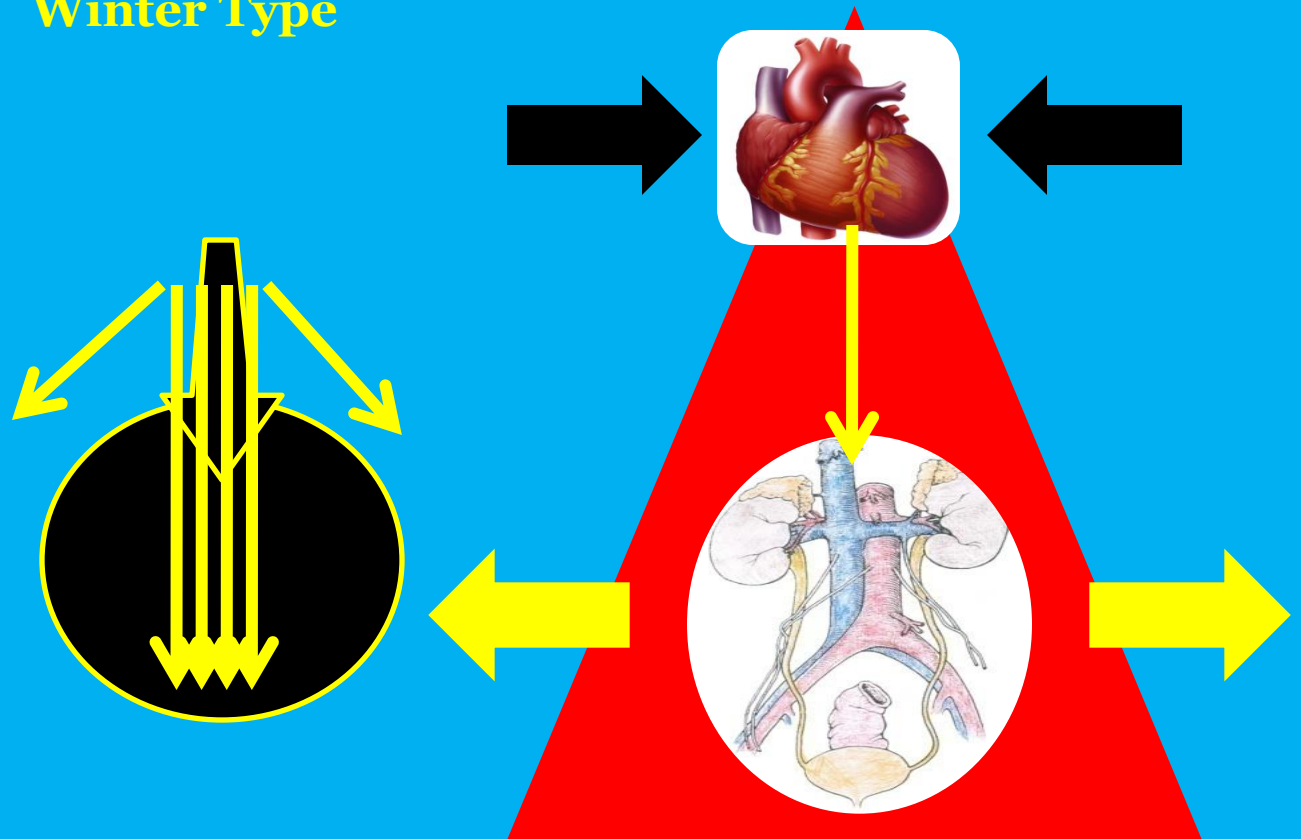


The last one is the Winter Type. People in this Type likes 13 to **use their brain more than body**. Many people in this type are researchers or strategists.

They are very punctual and pursue stability in life. They also enjoys **resting their body**.

People of the Winter Type values their families more than their social relationship.

Many **researchers, bankers and comedians are the Winter Type**

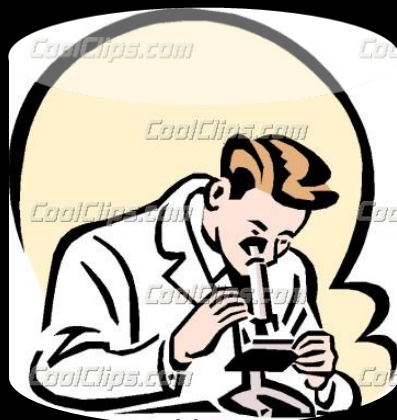
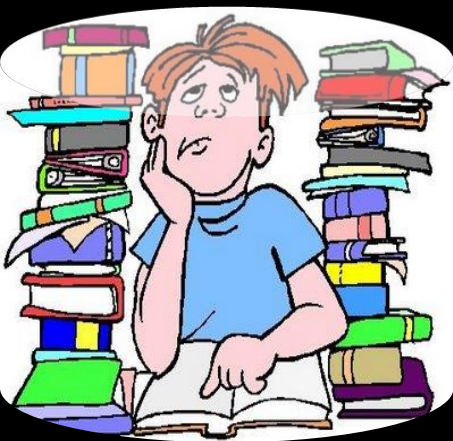
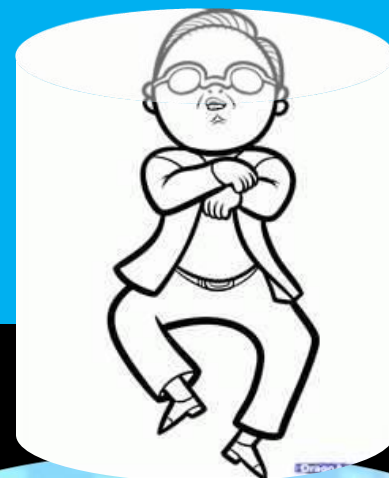
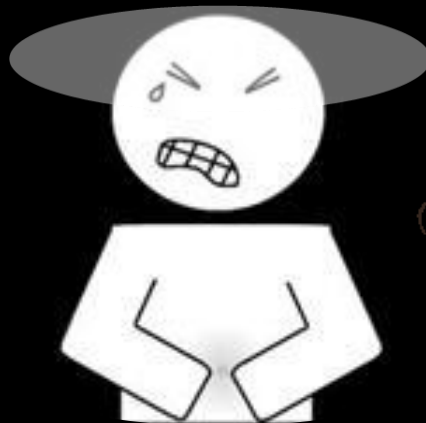


The words that means winter type.

Digestive problem. Diarrhea. Tongue sensitivity

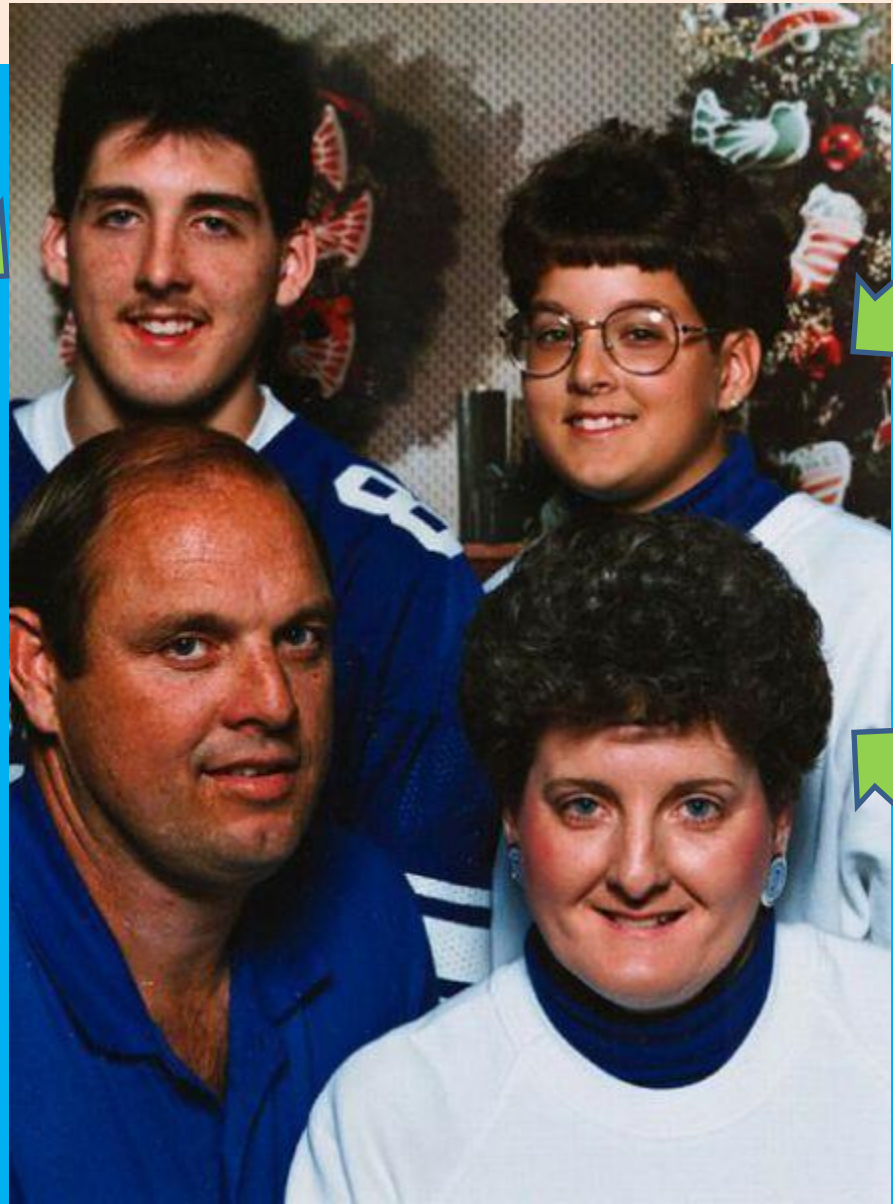
Doubt? Question? Research.-----> Stability

Rest alone. Entertainment & amusing



# *One family in the internet*

## *Type is inherited.*



### Winter type

Winter  
type  
Slim and  
discrete



Winter  
type  
Slim and  
discrete



### Autumn type

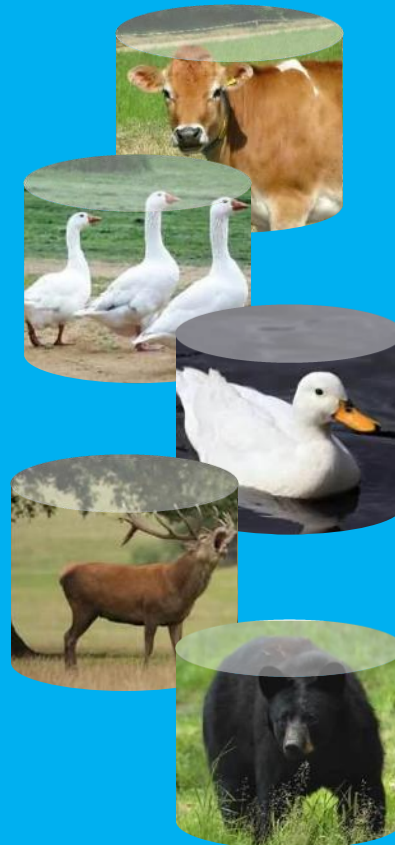
Autumn  
type  
Slow and  
generous



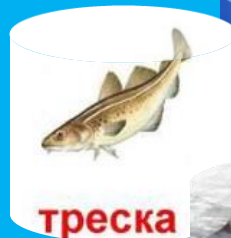
Autumn  
type  
Slow and  
generous



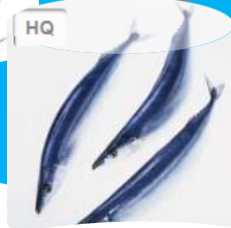
Meat -мясо			
Spring type	Summer type	Autumn type	Winter type
весний тип	Летний тип	осенний тип	Зимний тип
Lamb/баранина Quail/перепел	Pork /свинина Camel/верблюд	Beef/говядина Goose/гусь Duck/утка Deer/олень Bear/Медведь	Goat/коза Chicken/курица Egg/яйцо Horse/лошадь Snake/змея



Fish-рыба				
Spring type	Summer type	Autumn type		Winter type
весний тип	Летний тип	осенний тип		Зимний тип
Porgy/морской окунь Bream fish/Лещ рыба	Halibut/палтус Flatfish/хамбала Pompano/трахнотус/전갱이 Blowfish	Shark/акула Pollack/сайда Codfish/треска Monk fish Sturgeon/осетр	Swordfish/рыба-меч Pacific saury/сайры Hairtail fish	Salmon/лосось Tuna/тунец Yellow tail/желтохвост/방어 Mackerel/скумбрия/고등어 Spanish mackerel/испанская макрель Anchovy/анчоус



треска



рыба-меч



Энциклопедия рыб > Сайда



# Seafood-морепродукты

Spring type	Summer type	Autumn type	Winter type
весний тип	Летний тип	осенний тип	Зимний тип
Осьминог/осьминог Clam/моллюск Улитка/Snail Тюрбан оболочки/Turban shell	Кальмар/Squid Креветка/shrimp Оyster/устрица Solen strictus морское ушко/abalone моллюск из семейства брюхоногих/Gastropod Асцидий/Sea Squirts	Краб/krab Омар/lobster морской еж/sea urchin	

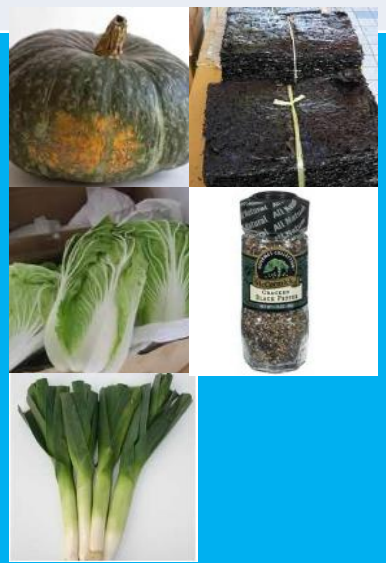


food			
Spring type	Summer type	Autumn type	Winter type
весний тип	Летний тип	осенний тип	Зимний тип
Кукуруза/corn Гречневый/Buckwheat	ржаной хлеб/rye bread Овсянка/oatmeal Рис/rice Ячмень/Barley	пшеничного хлеба/wheat bread клейкий рис/ Glutinous Rice	Просо/millet Черный рис/Black Rice
красная фасоль/Red beans Peanuts/арахис	Mung beans/мунг Горох/Pea Walnuts/грецкие орехи	Желтая фасоль/Yellow beans <i>Phaseolus vulgaris./haricot</i> Kidney Bean/Almonds/миндаль	фасоль/black bean Маленькие черные бобы/Small black beans



# food

весний тип/Spring type	Летний тип/Summer type	осенний тип/Autumn type		Зимний тип/Winter type
<p>부추/Leek/лук-порей                      붉은호박/Pumpkin/тыква                      더덕                      김/Laver                      배추/Chinese cabbage/китайская капуста                      후추/Pepper/перец</p>	<p>가지/eggplant/баклажан                      오이/Cucumber/огурец                      당근/Carrots/морковь                      양배추/Cabbage/капуста                      치커리/Chicory/цикорий                      숙주/Sprouts/рассада                      호박/Squash/сквош                      우엉/Burdock/лопух большой                      갓/leaf mustard/листья горчицы                      겨자/Mustard/горчица                      참깨/ Sesame оставляет                      T                      생러리</p>	<p>양파/Onion/лук                      무/Radishes/редис                      고사리/Bracken/папоротник-орляк                      도라지/Bellflower/колоколчик                      콩나물/Bean sprouts/пропущенная фасоль                      미나리                      신선초                      아스파라가스/Asparagus/спаржа</p>	<p>케일/Kale/лиственная капуста                      머위/Coltsfoot/мать-и-мачеха                      연근/Lotus root/корень лотоса                      토탄/Taro/Таро                      야콘/Yacon                      양/Yam/ямс                      다시마/Kelp/ламинария                      죽순/bamboo/побегами бамбука                      Beet/свекла</p>	<p>썩갓/Groundsel/крестовник                      K                      시금치/Spinach/шпинат                      깨/Sesame оставляет                      달래                      고추/Cayenne pepper/кайенский перец                      피망/Pimento/душистый перец                      미역/Brown seaweed/Коричневые водоросли                      파                      마늘/Garlic/чеснок                      생강/ginger/имбирь                      파슬리/Parsley/петрушка</p>



# Fruit-фрукты

Spring type/ весний тип

사과apple/яблоко  
 키위Kiwi/киви  
 감 persimmon/хурма  
 포도виноград  
 무화과Figs/инжир  
 산사자Hawthorn berries/  
 Плоды боярышника  
 자몽Grapefruit/грейпфрут  
 Guava/гуайява -차 tea/чай  
 양젖/lamb milk/баранина  
 모로카- wine/вино  
 망고Mango/манго

Summer type/Летний тип

파인애플Pineapple/ананас  
 딸기Strawberry/ клубника  
 토마토Tomato/помидор  
 바나나Banana/банан  
 레몬lemon/лимон  
 커피 coffee/кофе  
 낙타젖Camel молока  
 Beer/пиво  
 아사이베리asaí berry/Асаи  
 ягоды

Autumn type/осенний тип

배 pear/груша 메론/Melon/дыня 참외  
 수박Watermelon/арбуз  
 자두Plums/сливы매실  
 은행ginkgo/гинкго  
 석류Apricots/абрикосы  
 여지litchi/нефелиум  
 두리안여가무/Дуриан  
 블루베리blueberry/черника  
 우유 /milk/ cheese/сыр  
 보드카. водка

Winter type /Зимний тип

귤Tangerine/мандарин  
 오렌지Orange/оранжевый  
 복숭아Peach/персик  
 유자Citron/цитрон  
 아보카도Avocado/авокадо  
 대추 Jujube/мармелад  
 야자Palm/coconut/кокосовый  
 Goat milk/козьего молока  
 마유 horse milk/кобыльего  
 молока/ 위스키



Гриб-mushroom			
Spring type/ весний тип 느타리버섯 양송이버섯 Oyster mushroom/Вешенка Agaricus bisporus	Summer type/Летний тип 팽이버섯 Flammulina mushroom Flammulina грибами	Autumn type/осенний тип 표고버섯 грибы шиитаке/Shiitake mushrooms 영지버섯 Reishi mushroom/рейши гриб 상항버섯 Phellinus	Winter type /Зимний тип 차가버섯 Chaga mushroom/Чага гриб



*Sasang (four type typology) &  
modern western medicine*

*How these two can be cooperated ?*

# ***THE VALUE OF SASANG (FOUR TYPE) TYPOLOGY***

- 1. Key to  
Refractory & chronic diseases*
- 2. Selecting  
best suitable chemotherapy medication  
for every patient.*
- 3. Key to  
Pediatric cancer of which cure is not known*

# *Conclusion*

*Sasang Medicine( four types typology ) can be the key to modern pharmacogenomics*

*because it can match human types and specific medications.*

*It can also help predict the effects of certain medication on patients.*

*My phenotyping method needs further science-based research, and I'm open to any suggestions and scientific perspective.*

*“ Thanks for listening “*

***Sasang typology  
can be the key of Phamarcogenomics***



***Gift to Western medicine  
Which could find out the  
key of genetics and  
medication matching***