



EMASTM

2005 User's Manual

First Edition

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Chuan-Ming Wang, L.Ac.

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The EMAS 2005 uses non-invasively with low current to measure a person's meridian status. If a person has any of the following conditions should not use the EMAS: pregnancy, implanted pacemaker, are an infant.

The use of EMAS 2005 is solely at user's own risk and Health Epoch Inc. is not responsible nor liable for any costs incurred by the treatment suggestions made by the software.

Electro Meridian Analysis System

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Read This First

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Chapter *1* Introduction to EMAS

- 1.1 EMAS Overview
- 1.2 EMAS Technique and Theory
- 1.3 How to Learn EMAS Diagnosis
- 1.4 The Stability and Restrictions of EMAS Measurement
- 1.5 System Requirement for EMAS.
- 1.6 Hardware and Software Specification

1.1 Overview

The EMAS is comprised of a measuring device and the application software. The measuring device is easy to install and communicates with a personal computer through a common 9-pin RS-232 port. We also provide a USB-serial adaptor for some computers that have no available RS-232 Port. The hardware device, though delicate, is designed to work under various weather conditions and environments. The application software, which is coded in C# .NET, provides a graphical user interface and all functions are fully integrated with Microsoft Windows systems (Windows 2000 and XP or later version). We ship the device with the manual and software in English. We continuously release other language versions and updates. Please visit our website at <http://www.hepoch.com> for the latest releases.

The EMAS measures each meridian's activity level by applying the probe to a single representative point of that meridian. It reads 24 points in total (12 left meridians + 12 right meridians) and automatically inputs the energy value into the computer. The measurement of one diagnostic point takes less than 5 seconds and the entire measurement process will only take about 3 minutes to complete. After the data is collected, the software will analyze the examinee's physiological status and then outputs the

results in a graphical report. The user can also print out the data for future reference and the system automatically saves the report as a *.PDF file.

The examinee's meridian energy data is collected non-invasively because the maximum electric current that EMAS generates after calibration is 200 μA ($1\mu\text{A} = 10^{-6}\text{A}$), which is much lower than a person can feel, not to mention that the current which goes through a normal person's body is usually less than 100 μA . The examinee should feel nothing during the examination. However, if there are any safety concerns about this device, stop using it immediately.

The original Ryodoraku theory uses the measurement of the twelve meridians, followed by the physiological analysis. Since they didn't have the assistance of the computer at that time, it took a much longer period to complete the analysis and reporting. EMAS (Electro-Meridian Analysis System) is based on the traditional Ryodoraku theory and measuring method, but goes beyond it in the analysis. It uses the Ryodoraku theory, combined with the computer, to quickly carry out the Ryodoraku analysis. It provides a detailed graphical chart depicting the patient's imbalances and also furnishes various treatment strategies, such as, acupuncture, acupressure, Chinese herbs, food therapy, etc.

Note: EMAS is solely for medical research and reference purposes only. EMAS is not responsible for any medical actions and/or results in any way.

1.2 EMAS Technique and Theory

In Traditional Chinese Medicine theory the most difficult aspect to learn and understand for western people is the diagnostic method and philosophical basis for the diagnosis. In the present time, and in the wake of the advancement of high technology, western medicine has unceasingly continued to develop new medical equipment and yet, oriental medicine still

uses traditional diagnostic methods. This often makes it more difficult to learn due to the abstract concepts and metaphysics involved in Traditional Chinese Medicine. So, do the twelve meridians actually exist? Also, at this time, does the newest technology yet have a method that concisely tells how the meridians and collaterals exist in the human body? Absolutely! Acupuncture therapy, which has been in use for more than five thousand years in the oriental world, has built a complete meridian and collateral system.

Since 1949, one research group, lead by Dr. Yoshio Nakatani in Japan, dedicated themselves to the research of Ryodoraku theory and thus, Ryodoraku therapy evolved. Ryodoraku theory measures the electric value of the twelve meridians and obtains 24 values, one for either side of each meridian. Finally, Dr. Nakatani found that the Ryodoraku theory matches the Traditional Chinese Medicine theory in that “disease is reflected by the twelve source acupoints”. Ryodoraku theory uses very simple and concise diagnostic methods, yet it quickly and precisely shows all the meridians and collaterals of the whole body. We can certainly say that this is an important breakthrough of latter-day meridian theory.

After the Ryodoraku theory was brought forward, there were many scholars who started actively researching biological measurements based on electrical theory. Aside from the Ryodoraku theory invented by the Japanese, another now famous theory is the Voll theory, which was invented by Teuton. Because the Voll theory may connect with western medicine theory and because Dr. Voll also received a Nobel Prize, Europeans currently continue to do a great deal of research on this theory. There are presently many products of the Voll theory, but because the Voll theory is very complex, not easily taught and the price of the equipment is very expensive, it cannot be popularized. Therefore, EMAS is dedicated to the research and development of the Ryodoraku theory, and continues to integrate the Traditional Chinese Medicine theory as a guide and method. We are continually striving to bring you the most comprehensive system which is easily learned and affordable.

Modern acupuncture practitioners are looking for the most accurate and reliable way to diagnose the twelve meridians, and then obtain the best possible treatment solution for their patients.

The research and development of EMAS (Electro Meridian Analysis System) is totally based on original Ryodoraku theory, in addition to some new ideas and supplements. It provides not only traditional Ryodoraku analysis readings, ratios, the 12 meridian chart and Ryodoraku treatment points, but it also combines with Traditional Chinese Medicine theory to generate a state-of-the-arts analysis software. Traditional Ryodoraku theory measures 24 representative points. It calculates all the ratios based on those 24 readings, including average body energy, upper and lower body (hands and feet) energy ratio, left and right side energy ratio, internal and external (Yin and Yang) energy ratio, autonomic nerve ratio, and the twelve meridian chart. It provides information such as mono-meridian and Ryodoraku treatment points and allows you to formulate your own treatment plan.

In the research and development process of EMAS, in addition to consulting traditional Ryodoraku theory, we also referred to the Russian researched and developed ARDK (Automatic Reflective Diagnosis System) system. ARDK was invented by the Russian Central Scientific Research Institute between the years 1978 and 1992. This system helped Ryodoraku theory research to become more penetrating, bringing forth many multi-meridian cross analysis statistics and analysis concepts. ARDK uses clinical statistics to generate multi-meridian cross analysis records. However, we cannot say the analysis information of ARDK is one hundred percent correct. But, we can say that the analysis provided by ARDK has precision to some degree and totally matches with Traditional Chinese Medicine theory.

Take the lung meridian and large Intestine meridian for example, according to ARDK, it shows if these two meridians are abnormal at the same time the patient may have a cold or skin problem. According to the Traditional Chinese Medicine theory, the lung dominates respiration,

dominates qi throughout the body, regulates the water passage and, also governs the skin. The abnormality of the lung meridian will affect the respiration and skin systems. The lung and large intestine meridians are also externally- internally related, which is totally the same as Traditional Chinese Medicine theory.

EMAS 2005 formally integrates Ryodoraku theory with Traditional Chinese Medicine. EMAS provides more information, including external-internal contrast ratio and also provides more functions, including multi-meridian analysis, acupuncture, acupressure, Chinese herb...etc. We provide not only one treatment style but we are continually updating new ones. Our comprehensive client management system can assist you in managing your patient's medical records and the professional reports will promote your clinic's image.

EMAS has already successfully broken through the barrier of the diagnostic weaknesses of Traditional Chinese Medicine theory and has integrated all the Traditional Chinese Medicine theories which are based on the 12 meridian theory, such as acupuncture, acupressure, Chinese herbs, Qi-Gong...etc. We are also dedicated to researching multi-meridian cross analysis formulas related to some diseases. One of our major goals is to continually develop more multi-meridian diagnosis formulas based on statistics.

Although Ryodoraku theory was invented in the 1950's, we can say that the research of Ryodoraku is still very new. EMAS is currently, and plans to continue in the future, collecting the records of millions of patients in order to further the research of the Ryodoraku theory. We cordially invite you to be a part of this exciting and informative endeavor.

1.3 *1.3 How to Learn EMAS Diagnosis*

Although EMAS 2005 already makes the Ryodoraku analysis very simple, via software, it still requires some time and patience to properly learn EMAS diagnosis. Let us explain by providing three case studies.

Case 1: A male patient, age 34, was suffering from abdominal pain for many years. He had tried many different types of treatment, including acupuncture, herbs, massage, western medicine...etc., but none of them had worked. He went to see an acupuncturist and he received acupuncture treatments on his stomach and other meridians many times, but he still showed no improvement. After taking an EMAS measurement, the measurement showed his sanjiao meridian was abnormal. The system suggested needle insertion in Yemen (SJ 2), Zhongzhu (SJ 3). After three treatments, he could barely feel any pain at all in his abdominal area.

Case 2: A female patient, age 48, was suffering from itchiness covering her entire body for over two weeks. She went to a western doctor for an examination. The doctor told her it was atopic dermatitis and gave her some prescription medications. She took the drugs for several days, but still suffered from the irritation. She then went to see an acupuncturist and was given several treatments on the lung and large intestine meridians, but her condition did not improve. After receiving the EMAS diagnosis, it was found that her sanjiao meridian was a great deal in excess, so the system suggested needle insertion in Yemen (SJ 2), Zhongzhu (SJ 3). After only two treatments, the itching problem disappeared.

Case 3: A male patient, age 59, had suffered from neck problems for many years and also felt tired everyday. He went to see an acupuncturist who treated his neck with ashi points. The pain was relieved for only a few minutes and then the original condition returned. After the EMAS diagnosis, it was found that his sanjiao meridian was extremely deficient, so the system suggested needle insertion in Yemen (SJ 2), Zhongzhu (SJ 3). Within only five minutes he felt much better.

According to acupuncture textbooks, Yemen (SJ 2) and Zhongzhu (SJ

3) are described to treat headache, rosy eye, deafness, throat problems, arm pain, tinnitus... etc. You cannot find any description about abdominal problems, itching or neck problems. So why can we help these situations by using those two points? Because of the technology that EMAS offers, EMAS can help us to find the treatment solution without any books or references. It can be our teacher. We guarantee the cases above are true and not fabricated and all the cases we provide in the manual and on the website are true testimonials. We will continue to publish testimonials from patients in order to prove the effectiveness of EMAS. Thus, we can say that the power of each acupoint is not necessarily limited to the description given in acupuncture text books. We found that Yemen (SJ 2), Zhongzhu (SJ 3) can also help more than 20 other diseases. Knowing how to read the twelve meridians chart and to further find out the accurate acupoints, is the most important issue, but it takes time and wisdom to learn.

EMAS will continue to update the software to help you in your diagnosis and treatment plan, but the most important thing you must do is to take the time to learn all that EMAS offers.

We often receive mail from our clients doubting the accuracy of the EMAS diagnosis. For example, a patient has digestion problems, but the stomach meridian is normal or some patient has cancer, but the chart shows completely normal and everything is fine. We must state here that the EMAS always shows you the real condition at the time you are measuring. The key is how to explain the information it provides. Most of the problems that practitioners experience are a direct result of the user not being familiar with the Traditional Chinese Medicine theory, and it is not a problem with EMAS.

Based on Traditional Chinese Medicine theory, digestion problems may not only result from the stomach or spleen meridian, but may also be from the liver or gallbladder meridians, the sanjiao or pericardium meridians, the lung or large meridians, or the small intestines or heart meridians. It is not always easy to differentiate which organ system is involved and that is why we need EMAS to help us.

We suggest to those who would like to learn EMAS diagnosis to focus on the following:

1. Place your main emphasis on Traditional Chinese Medicine theory, using Yin and Yang theory and five element theory to diagnosis and at the same time, keep in mind the interactions between each meridian. Please also remember that Traditional Chinese Medicine and five element theory are quite different than Western medicine theory.
2. Continue to measure as many people as possible (not only patients) to accumulate experience. We suggest at least 1000 times.
3. Learn as many acupuncture treatment styles as you can, for example, Koryo hand acupuncture, Tung's acupuncture, auricular acupuncture...etc. The more knowledge you have, the more it can help you to learn EMAS more deeply.

1.4 The Stability and Restrictions of EMAS

Measurement

EMAS users are always asking us the same question, i.e., “Why are the results different if you measure the person once and then shortly thereafter measure them again”. Some EMAS users like to take a measurement again directly after the treatment to compare and prove the effectiveness of the treatment. However, sometimes they cannot explain the results of the second measurement and then doubt the stability of EMAS.

EMAS is a very reliable and stable system, if used properly. The measuring results will not always be the same for the same person if done on the same day. The difference in the measurements is because at the time of the first measurement there is a small amount of electricity going into the body at every measuring point. Since each person has a different constitution, after the initial measurement, the distribution of the electricity throughout the whole body will change and, therefore, the consecutive second measurement within a short time may not be meaningful. To get the stability of each measurement, we suggest the following steps here:

1. Follow all the necessary requirements listed in Chapter 3 before each measurement. If you do not follow these requirements the measurements will definitely not be reliable.
2. Do the calibration before each measurement. Every time you change the cotton, the electric resistance will change, which will also affect the results of EMAS measurement. Doing the calibrations before each measurement will 100% confirm the stability of the electric current.
3. Do not take the second measurement directly after treatment. EMAS recommends that you wait 24 hours before taking another measurement and, if possible, it should be taken within the same time frame as the previous measurement. For example, if you take a measurement on Monday at 10:00 a.m. then Tuesday at 10:00 a.m. would be the ideal time to take the next measurement. However, if this is not possible, then we recommend there be at least 8 hours between measurements.
4. The best time to take a measurement is between 10:00 a.m. and 12:00 noon; and, 2:00 p.m. and 3:00 p.m. EMAS recommends that you do not take a measurement during the night, as the body's energy is usually low during this time.

If you follow the above steps, then the stability and reliability of the measurement can be guaranteed. Finally, please keep in mind that the body condition of a person changes everyday. We recommend that you measure a person more than three times or separate days and then compare all of the results. This will allow you to confirm the main trend of abnormal meridians and then select the your treatment plan.

We cannot state that EMAS diagnosis is for everyone. There are certain circumstances in which using EMAS is not advised. Listed below are some of those circumstances:

1. EMAS is not used for any patient who has low body energy. (A patient who has cancer or long-term diseases always has low body energy)
2. EMAS is best for treating short-term diseases such as pain related diseases and is not recommended for long-term diseases such as cancer

or diabetes...etc. It is not that we feel that EMAS cannot help long-term diseases, but based on TCM theory, all long term disease may result from the abnormality of certain meridians for several years and in some cases, the extreme of Yin will transfer to Yang or extreme heat will transfer to cold. This makes all the diagnostic procedures much more complex.

3. We found that some common diseases (about 5%) result from reasons which cannot be explained by EMAS. Some rare or special diseases also cannot be explained by EMAS. In these cases, we always suggest those patients try another solution.

4. It is not recommended for woman in their first trimester of pregnancy.

5. It is not recommended for children under the age of 2.

6. It is not recommended for people with pacemakers.

1.5 System Requirements for EMAS

The following are the minimum computer software and hardware requirements for EMAS. Please make sure your computer meets these requirements before installation. If there are any problems, please contact your dealer or our customer service center.

Computer Hardware Requirements:

Computer: IBM PC or compatible

CPU: Intel Pentium-800 (AMD K7) or above

Memory: 256 MB RAM or more

Hard Drive: at least 40MB of free hard disk space

Monitor: Color monitor with at least 800*600 resolution

Comuncation Port: RS-232 serial port or USB port

Optional: CD-ROM (for software installation from a CD)

Computer Software Requirements:

1. Operating System: Microsoft Windows 2000, XP or later version only. (English Version only)
2. Adobe Acrobat reader 6.0
3. Microsoft .NET Framework Version 1.1
4. Microsoft Data Access Components (MDAC) 2.8. (Installation in Windows 2000)

Peripheral:

Printer: Any black and white or color printer that supports the Windows Operating System

1.6 Hardware and Software Specification

EMAS hardware is composed with EMAS device, constant pressure detecting module and EMAS 2005 software.

EMAS device	
Material	Aluminium
Weight(unit:oz):	125 g
Size(unit: inch):	13.5 L x 8 W x 1.3H (Unit:cm)
Precision	4096 (± 0.05)
Power Jack	AC/DC Adapter. Input: 115V-240V, Output 13.5 V .
Signal Jack	RS-232 (USB-Serial adapter is included)
Detecting Module Jack	3.5 mm phone jack

Constant Pressure Detecting Module	
Signal Plug	3.5 mm audio plug
Probe Plug	4 mm banana plug
Ground Pole Plug	2 mm banana plug
Probe Material	Coverd by plastic, the head of probe is made by stainless steal

Ground pole material	aluminium
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EMAS software	
Computer Language	Microsoft Visual Studio C# .NET
Additional Requirement for EMAS 2005 Installation	Microsoft .NET Framework 1.1 Microsoft Data Access Components (MDAC) 2.8. Adobe Acrobat reader 6.0

Explanation:

1. We use external plug instead of using USB port power because the following reason:

Original ryodoraku theory use 12V power as an input. The USB port only provides only 5V power and also we can not confirm with the stability of each USB port in every laptop computer. Based on EMAS 2004 users' experiences in the past, some USB ports of users' laptop was not stable as to affect the working of circuit board. Finally we consider to use the external power to stabilize the measurement accuracy.

2. EMAS 2005 use RS-232 port for transferring measurement data. Because some laptop computer nowadays does not provide RS-232 port, USB-adaptor also included in the EMAS 2005 package.

3. EMAS 2005 uses audio plug connect with EMAS device and detecting module. We use 4mm and 2mm banana plug to connect with probe and handing pole. You can unplug the probe or handing pole for cleaning or

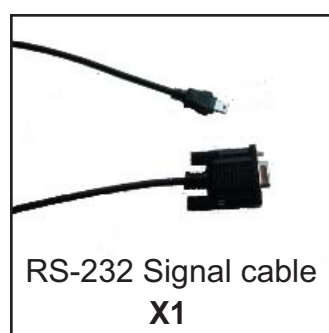
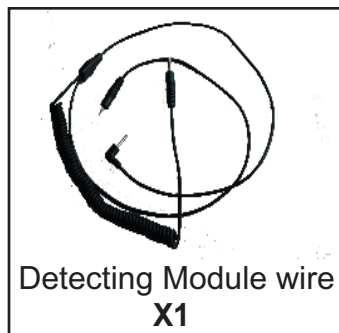
Chapter 2 EMAS Installations

- 2.1 List of EMAS Parts
- 2.2 EMAS Device Diagrams
- 2.3 Installing the Device
- 2.4 Installing the USB-Serial adapter
- 2.5 Installing the Software

IMPORTANT : Before installing any hardware or software on your system, please read 'Read this First' in the beginning of this manual carefully for the Limited Warranty, Liability Statement, and License Agreement.

2.1 List of EMAS parts

When unpacking the EMAS 2004 package, you should find following parts:





13.5V Power Adapter
X1



Installation CD X1



User's Manual X1

2.2 EMAS Device Diagrams

The followings are the front and rear view of the EMAS device



Power

Access

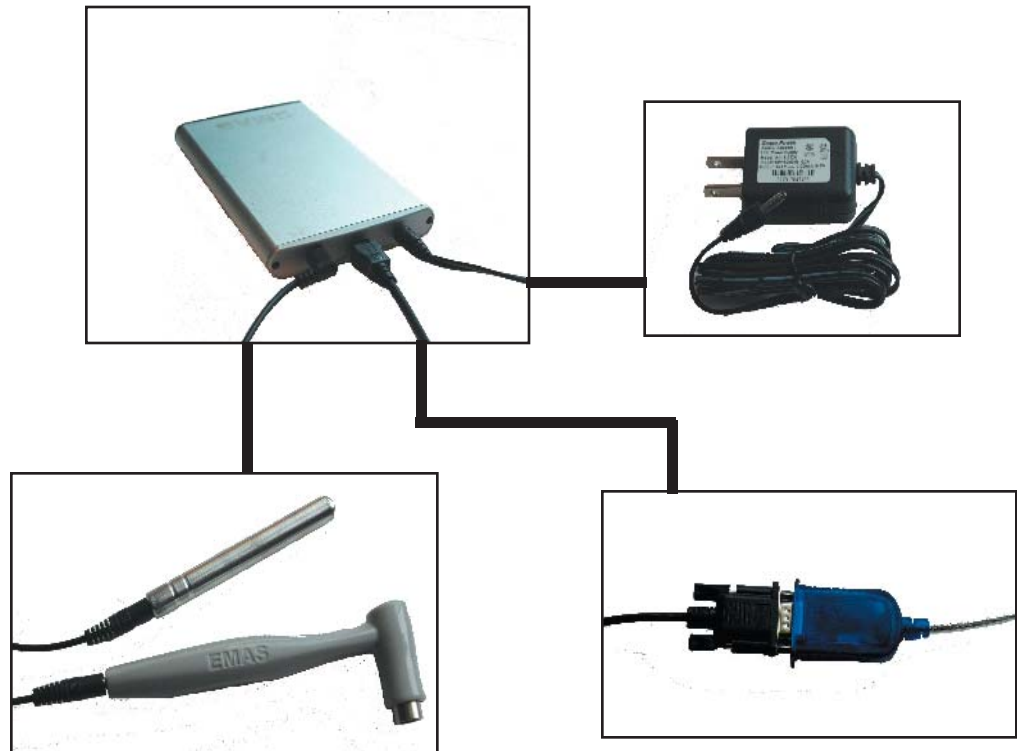


Constant Detecting Module

RS-232 Com Port

Power

2.3 Installing the EMAS Device



Step 1. Plug the 13.5 V power adapter into EMAS device DC port.

Step 2. Connect the Detecting Module to the EMAS device (3.5mm phone plug into to the device)

Step 3 4mm banana plug into the probe, 2mm banana plug into the handling pole

Step 4. Connect the computer and the device with the RS-232 signal cable.

Step 5 Use USB adapter if your computer do not have Com port

There are 5 easy steps to install the hardware device.

2.4 Installing the USB-Serial Adapter

Introduction

USB1.1 Serial Adapter operates as a bridge between one USB port and standard RS232 Serial port. Users just simply hook the cable into PC or Hub's port, and it can connect any RS-232 devices or DB 9P Male connector.

Features

- Advanced 16 Bit processor for USB transaction and control data processing
- Compliant with the USB 1.1 specification
- USB suspend condition
- Plug & play compatible
- Utilizes low cost external crystal circuitry
- Debug UART for debug and code development
- USB host device drivers available
- 500 kbps rate

Install USB adapter in Windows 2000

Step 1 Insert the Driver CD to your CD-ROM when the first time you turn on the computer after hardware installation completed.

Step 2 Windows searches new device, and click Next to continue.

Step 3 Select Search for a suitable driver for my device, and click Next to continue.

Step 4 Select Specify a location, click Browse to locate the driver from CD-ROM, and click Next to continue.

Step 5 Click Next to install.

Step 6 The system shows Windows has finished installing the software

for the device. Click Finish.

Install USB adapter in Windows XP

Step 1 Insert the Driver CD to your CD-ROM when the first time you turn on the computer after hardware installation completed.

Step 2 Windows searches new device. Select Install from a list or specific location and click Next to continue.

Step 3 Select Search for the best driver in these locations, click Browse to locate the driver, and click Next to continue.

Step 4 The system shows The wizard has finished installing the software.

Click Finish.

2.5 Installing the Software

By installing the EMAS software on your computer, you have automatically agree to comply with the copyright statement.

There are two options for installing the EMAS software:

Option 1: Insert the installation CD into the CD-ROM drive

After you put EMAS 2005 Installation CD-ROM into the CD drive, please click the Setup.exe file. EMAS 2005 software will automatically detect your system and guide you installing all the requirement. System will help you to install Microsoft .NET Framework 1.1 and Microsoft Data Access Components (MDAC) 2.8. if the system are lacking of those componets.

After you have installed all the requirement components, system will automatically install the EMAS 2005 software. Click the [Next] button on each screen. During this process, please select the default settings when prompted unless you want to install in a different location. When the program indicates that the installation is complete, click the [Finish] button.

Option 2: Install from the website, network, or local hard drive

Users may choose this option if their computer has no CD-ROM drive or they want to install a newer version downloaded from our website. The installation file should look like 'EMAS-Setup-mm-dd.exe', where mm-dd is the date of release. Latest update or new release will be available on our website. User may save the file in their local hard drive and install later. Or they can install right after download.

If you choose option 1 to install EMAS software and find out that the software is not working properly. It is likely that we have fix the problem and you should download and install the latest version from the website. Please go to our website download or Q&A to get help on this issue.

Register your EMAS 2005 software

You can get the registration code from the label on the Installation CD-ROM envelope. Please entered the registration code then the registration message will never show again. Demo version will expired in 15 days, please register in 15 days.

Chapter 3 *Requirements and Preparations*

- 3.1 Requirements for the Environment
- 3.2 Requirements for the Examiner
- 3.3 Requirements for the Examinee
- 3.4 Preparation for the Conductive Cotton
- 3.5 Preparation for the Detecting Probe & Electrode

Please read this chapter and follow the requirements and preparations steps. Otherwise, the measurement may not be accurate.

3.1 Requirements for the Environment

The EMAS is a highly sensitive device. To minimize the interference from some environmental factors and achieve the highest accuracy, please prepare the environment as below:

1. To avoid interference from the power source, please plug the computer to a power outlet or surge protector alone. Do not share the same power source with high-wattage or strong electromagnetic field devices, such as heater, microwave, refrigerator, motor, fan, vacuum cleaner, TV, air conditioner, oven, washer, dryer, etc. The usage of these electronics may produce power surge or electromagnetic interference.
2. To avoid the interference of electromagnetic field, keep the computer and EMAS at least 3 feet away from above-mentioned electronics even they do not share the same power source. Also keep cell phones and cordless phones 3 feet away from the computer, EMAS device, and all cables that connect to EMAS.
3. Please place the EMAS device at least 6 inches away from the computer.
4. Do not use the computer and the device in a humid location such as the basement. If you have to use it in such a location, please turn on the air

conditioner or dehumidifier.

5. Temperature fluctuation affects the stability of the EMAS. Do not place it close to a heater, or an air conditioner vent or under direct sunlight.
6. The examinee's emotion should be stable in order to get accurate results. To stabilize the examinee's emotion during the measurement, the location should be clean, bright, roomy, and quiet.

3.2 Requirements for the Examiner

1. Read this manual thoroughly, understand how EMAS functions, and practice a few times. If possible, learn the skills from an experienced user. If you are interested in attending a training course, please contact us for dates and locations.
2. During examination, do not touch any metallic part on the detecting module. Only grab the plastic parts of detecting probe.
3. The examiner should not touch the examinee during reading. This may introduce background noise during measurement. Either EMAS detects background noise and pause collecting data or the reading is combined with noise.
4. Please avoid having a conversation with the client, as this might affect his/her mood.

3.3 Requirements for the Examinee

1. Abnormal dietary and resting patterns will affect the reading temporary. During the 8 hours prior to taking a measurement, please do not drink alcohol or coffee, or take any drugs that affect the nerveous system, such as sleeping pills; otherwise, the results will be altered.
2. To stabilize the examinee, please rest for at least 15 minutes.
3. After a meal or intensive exercise, such as swimming, running, etc., the examinee should wait for at least an hour before taking a measurement.
4. Hands and feet should be dried. Perspiration or dampness on the skin

surface introduces noise from other meridians and affects the reading.

5. Metallic items such as watches, rings, necklaces, glasses, etc. should be taken off to avoid short-circuit between meridians.
6. Make sure the skin surface is clean and free of oil, lotion, etc. We suggest using 70% alcohol to clean the meridian points. Not only does the alcohol clean the skin surface to ensure higher accuracy, but it also evaporates rapidly and kills germs.
7. The body should not touch the ground, wall or metal furnitures. The feet should rest on nonconductive material. If the isolation is poor, the EMAS device may not read the signal.
8. In order to get more accurate results, the examinee should lie down while taking the measurement.
9. After the measurement, the meridian energy value may change slightly due to the detecting current. It is normal and temporary. However, in order to get the most accurate reading, please take another measurement the next day.

3.4 Preparations for the Conductive Cotton

The conductivity on the skin surface is the most important factor for obtaining an accurate reading. It is affected by the the probe & electrode pressure, electrolyte (sweat) concentrations, the contacting area, and the cleanliness of the skin. An inconsistent contacting surface between the probe and the examinee's skin will affect the reading dramatically. Thus, the detecting module with wet cotton was developed. The softness of wet cotton and a thin layer of water between the cotton and skin will maximize the contacting area. In addition, wet cotton can act as a buffer to dilute electrolyte from the examinee's sweat and reduce the fluctuation caused by uncontrollable electrolyte (sweat) concentration. The preparation of the conductive cotton is very important and critical for a successful measurement.

Please follow the instructions below to prepare the cotton properly:

According to previous experience, if the cotton has not been stuffed tightly, or has not been stuffed deeply enough inside the bowl, the measurement result will be instable. This is the most common mistake.



Step 1. Prepare a small size of normal cotton which can suitably fit into the bowl of the probe. Saturate the cotton with saline solution.



Step 2. Squeeze the cotton tightly into the bowl on the constant pressure module probe. The cotton should reside in the bowl and exceed the brim by 1/16 inch.

The ancestors of EMAS have evolved several generations in decades. Probe & electrode pressure and electrolyte concentrations play the most important part in conductivity. Therefore, saline solution may improve the conductivity during the measurement. Please use our saline solution sample and refill it later. Please make it a habit to clean the probe after every usage. You can also buy several probes for alternative use from our website.

3.5 Preparation for the Detecting Probe & Electrode

The detecting module is composed of a constant detecting probe with two ends and a ground-pole electrode. The metal part of the detecting probe is made of stainless steel and is erosion resistant against acid or alkaline solutions. Stainless steel is more durable than electroplated materials, because it does not oxidize in normal condition. Even if it has been soaked in salt water or has been in contact with human sweat for a long period of time. Therefore, it provides stable conductivity and easy maintenance. However, after extensive usage, the probe and electrode may get dirty,

which reduces the conductivity and may fail to pass calibration. In this case, please clean the metal surface with a wet cloth and detergent. Do not clean it with hard objects which may scratch the surface. Do not clean it with erosive chemicals or lubricating oils.

The constant pressure probe is equipped with a spring inside. The advantage of such design is to absorb excessive pressure that an examiner may apply on the probe. The spring, by partially compressing, will keep the pressure around 130-160 g/cm². This is the optimum pressure level. Although the pressure applied to the skin stays constant when the spring is fully compressed into the detecting module, the excess pressure will pass to the surrounding tissue through the rim of the probe. The excess pressure will stimulate the measuring point and result in a higher reading. Excessive pressure should be avoided.

Please practice handling the probe by holding it gently in the middle of the handle. Try to control the pressure by pushing the probe against some object until the spring is partially compressed.

Hold the ground pole electrode in his or her palm. Place a few drops of water in between to ensure proper conductivity. Examinee may choose either right or left palm. However, **Please ask the examinee to hold the ground pole lightly, too much pressure will also affect the measurement readings. Also, do not switch to the other palm during the examination as the condition may change.**

Note: Make sure your hands are dry when you are holding the detecting probe.



Standard posture of holding the ground probe



Standard posture of holding the detecting probe.
Make sure your hands are dry when you are holding
the detecting probe.

Chapter 4 Using EMAS 2005 Software

- 4.1 Starting EMAS Software
- 4.2 Client Management
- 4.3 Start Measurement and Calibration
- 4.4 EMAS Analysis Information
- 4.5 Browse Chinese Herbs Information
- 4.6 Printing EMAS Report
- 4.7 Shutting Down EMAS

EMAS 2005 is a great software for clients management and Ryodoraku measurement. It also generates the professional report for your client. It's friendly interface is very easy to learn and use and can be easily learned in a short time.

4.1 Starting EMAS Software

Before you start the EMAS 2005 software, please make sure you complete the following steps:



Setp 1. Make sure the power of EMAS device is on, the power LED (green light) should stay on all the time.



Setp 2. The power wire, RS-232 wire (or USB wire) and detecting wire are connected to the computer.



Setp 3. The detecting module is completely connected to the constant detecting probe, the ground pole and the device.



Note: If you are using USB-Serial adaptor, make sure the driver has been installed

Note: The EMAS software continues to communicate with the EMAS device. Please do not unplug the power cord during the usage. If some interruption happens, you may need to restart the program again. For some computers that turn the USB power off during the power save mode or the computer goes into hibernation after idling for a certain period of time, the user should disable those modes.

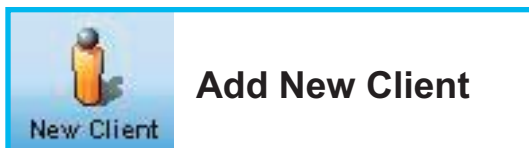
Press start-> EMAS->EMAS2005, then start the EMAS 2005 software.(You can also use the EMAS 2005 shortcut found on your desktop)



When you get into the EMAS 2005 interface, the system will show a message that will tell you whether the EMAS device is found or not. If the device was not found, you can not complete any measurements. You need to close the software and restart the program again or check the steps again which are mentioned above.

4.2 Client Management

The first important function of the EMAS 2005 is the client management system. The procedure is smooth and easy. The default page of the EMAS 2005 is the client management page. You can add new clients, search for old clients, browse all clients and read the client's information.



To add a new client: Click Client-> New client or the New client icon on the icon bar, the adding new client page will be displayed. There is information here that will need to be entered:

Name: Please type in the first name, middle name and last name.

Date of birth: User can directly type in the date or use the calendar function to choose the date of birth.

Age: After you set the date of birth, the age column will automatically shows the age.

Gender: User can set the client's gender here.

Weight and Height: User can set the client's weight and height here.

Address: User can enter the client's address here.

City : User can enter the client's city here

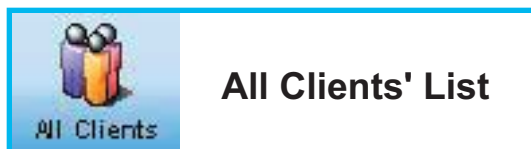
State/zip: User can choose the client's state and enter zip number here.

E-mail: User can enter the client's e-mail here

Phone: User can enter the client's home, work and mobile phone number here.

Note: User can keep clients' medical record here. The information record here will not be printed in the report.

When you finished typing all the information of your client, please press [Save] button, it will automatically save the information in the EMAS 2005 system.



EMAS 2005 sets all clients' list as the default page. You can directly use the mouse to choose the client you want. The client lists can be filtered by following method:

FirstName	LastName	Age	City	State	Email	LastMeasurement	Delete
Bill	Clinton	50	Pasadena	Virginia		3/28/05 00:12	

1. Filter by first name: Please click on the Firstname field, it will filter from A-Z or Z-A.

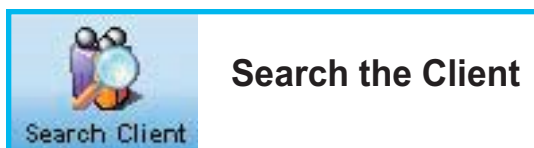
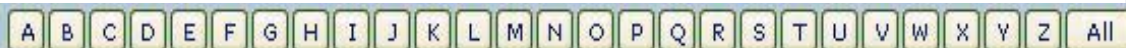
2. Filter by last name: There are two ways to sort by last name. First, please click on the last name field, it will sort last name from A-Z or Z-A. Second, we have a quick bar on the bottom of the software, you can directly click on the character A-Z, it will automatically jump to the name you want.

3. Filter by age: Please click on the Age field, it will sort from small to large numbers, or from large numbers to small numbers.

4. Filter by city: Please click on the City field, it will sort from A-Z or Z-A.

5. Filter by state: Please click on the state field, it will sort from A-Z or Z-A.

6. Filter by last measurement: Please click on the last measurement field, it will sort by date.



You can search the client by first name, last name or date of birth. If you type in the first name into the last name column, it will also search crossover. If you need to search by date of birth, please type the client's birthday i.e. 06/03/1950, then it will search by the date of birth.



There are three methods to browse the clients

1. You can use the mouse to choose the client and directly click into the client's information.
2. You can click the first, previous, next and last icon to browse the

clients.

3. You can use the PGUP and PGDN button from your keyboard to browse clients.

If you need to delete the client, please directly click the small trash can icon from all clients list page, the system will confirm the deletion with you again. You can also delete the client form the client information page, there is also a [delete] button on the below.

Note that once you delete the client, all the measurement history will also be deleted and cannot be recovered.



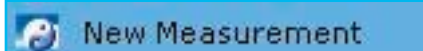
Delete the client

4.3 Starting Measurement and Calibration

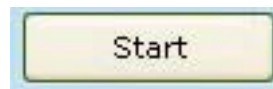
Please follow the steps to start the new measurement:

Step 1: Choose the client: Before you start the measurement, please add a new client first or choose the client in the record. After you complete it , you will see a [new measurement] button at the left side.

Step 2 Click [new measurement]button: when you click on the new measurement button on the left side, system will lead you to the measurement page.



Step 3 Click [Start] button: Click [Start] to start the new measurement.

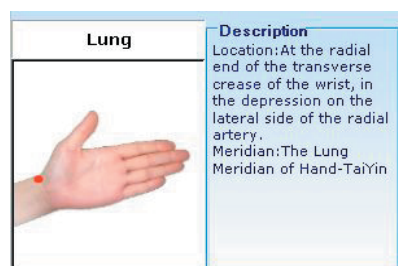


Step 4 Complete the calibration: When you press the [start] button, the system will automatically ask you to complete the calibration procedure. Please press [start] button again to start calibrating. Please put the constant detecting probe on the surface of the ground pole for 5 senond, the system will tell you the calibration function were successful or not.



Remember to do a calibration everytime you change the cotton, you can also skip the calibration if you don't want to. However, we highly recommend you do a calibration everytime to confirm the accuracy of each measurement. Please prepare the conductive cotton properly and install it on the probe. (Please refer to Chapter 3 for more details about conductive cotton)

Step 5 complete the 24 measurement points: After you complete the calibration, the system will guide you in completing the 24 points measurement. Please follow the screen and complete all the measurement points. The pictures will illustrate to you where the measurement points are and provide some description.



The measurement order is as follows (please see Appendix for more details):

1. Palm and back of the left hand
2. Palm and back of the right hand
3. The central and lateral part of the left foot
4. The central and lateral part of the right foot

Note: The measurement point that is showing the color red is the one you are presently measuring. If you want to measure one point again, please directly click on the measurement point you want and the reading

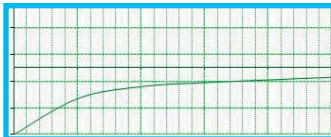
Hands				
	LU	PC	HT	SI
L	54	67	55	0

will change that point to be red in color , then you can measure that measurement point again.

Step 5 press [Save & analysis]: After you press [Save & analysis] button, the system will automatically save the 24 readings and jump to the

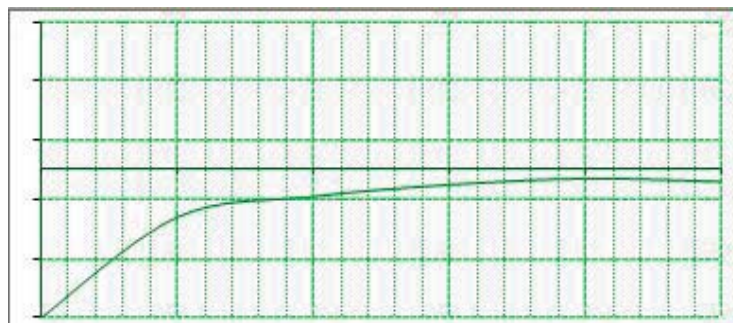
analysis pages.

Save & Analyze

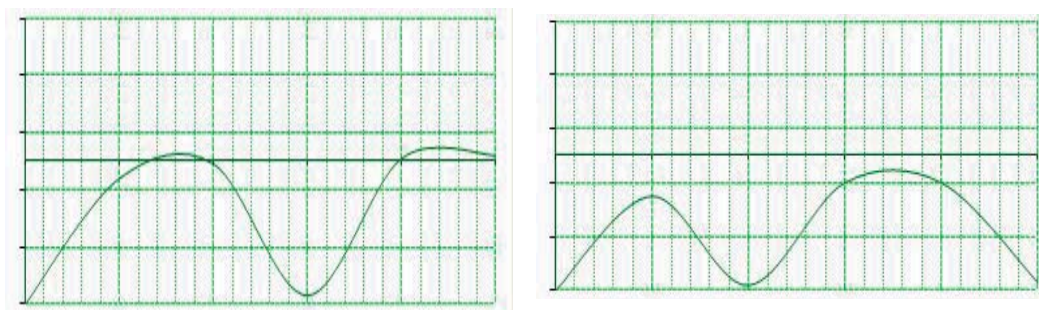


About Measurement Trend Line

EMAS measures each measurement points for five second and gets five measurement values from each second at the same time. The measurement trend line is drawn by these five values in real time. A stable line shows the accuracy of each measurement. Please remember to check each measurement trend line to ensure you are collecting the correct values. System will automatically correct the error measurements and measure again to confirm the accuracy of each measurement. Here are some normal and error trend lines:



Normal measurement trend line



Error measurement trend line

Description about calibration function:

The calibration function uses the precision of 4096 and the minimum standard value to pass calibration is 2048, i.e. $0.1953 \sim 0.2667 \mu\text{A}$ /compensation unit, so the system remain high accuracy when measuring energy value. This device is a sensitive instrument and any change in the environmental factors such as electrical field, temperature, humidity, conductive cotton, electrolyte concentration, and power voltage could result in the change of output current of the detecting module. Especially the conductive cotton and electrolyte concentration affects the most. The automatic calibration process will calculate the difference and adjust the output current to remain at $200 \mu\text{A}$. The new calibration value will be stored in the device for future reference. When you perform a calibration again in a short period of time, using the same conductive cotton, the environmental error should not fluctuate greatly. Please make sure of the following items:

1. Make sure the probe and electrode are isolated from any conductor
2. Make sure the conductive cotton is properly wet and installed in the probe.
3. Make sure the metal part of probe does not directly contact with the electrode.
4. Make sure the conductive cotton touches the electrode
5. Make sure there is no interference of the environmental electric field
6. Repeat the calibration procedure until it is successful.

It is extremely important to perform the calibration process successfully to ensure the accuracy of the measurement results. Please practice to become more familiar with it.



Read and Modify the Client Inforamtion

You can read and modify the client information any time if you click on the client info icon on the top. It will jump to the client information page directly. You can directly edit the information and press [Save & Exit] button.



Send an e-mail to the client

If you want to send a e-mail to your client, please click on the e-mail icon on the client list page. The system will open the default e-mail software such as Outlook in your Windows System and you can send an e-mail to your client instantly.

4.4 EMAS Analysis Information

Meridian Chart

Ryodoraku Analysis

Meridian Analysis

Acupuncture

Acupressure

Suggestion

Medical Record

EMAS 2005 provides powerful analysis information and will continue to integrate more in the later version

Meridian Chart

The analysis chart of the meridian excess-deficiency bar diagram provides the excited degree of e twelve meridians' energy of the left and right side and shows it by a bar diagram. (To get further information about meridian chart, please jump to chapter 6).

Ryodoraku Analysis

The Ryodoraku analysis provides information of the body's energy, the metabolism function, the mental state retio, the musculoskeletal system and the balance of autonomic nerve system. It also provides an external-internal

contrast ratio and 24 readings of the meridians' measurement. (to get further information about Ryodoraku analysis, please jump to chapter 6).

Meridian Analysis

The meridian analysis provides a mono-meridian and a multi-meridian analysis. The system will automatically analyze the abnormal meridian and show the analysis information for reference. All the information provided in the system only providing for reference purposes, if you disagree with the information provided, you can edit all the information yourself. (Please read 4.5 Define your own treatment information)

Acupuncture

EMAS 2005 presently provides four kinds of acupuncture styles, including traditional, Ryodoraku, Tung's and Son-Mother style. We will continue to add more styles in the later versions. If you disagree with the information provided, you can edit all the information yourself. (Please read 4.5 Define your own treatment information)

Acupressure

EMAS 2005 presently provides three kinds of acupressure styles including traditional, massage stick, essential oils. We will continue to add more in later versions. If you disagree with the information, you can define your own acupressure points. (Please read 4.5 Define your own treatment information)

Suggestion

EMAS 2005 provides life cultivation suggestions for the patient. If you disagree with the information, you can edit all the information yourself. (Please read 4.5 Define your own treatment information)

Medical Record

You can keep your medical records here. You can write all the personal suggestions here for your clients. **Note that all the information here will be printed in the report. If you need to keep all the information in private, please do not keep record here.**

4.5 Browse Chinese Herbs information

You can click Help->herbs information to browse the Chinese herbs--more than 200 diseases and related Chinese herbal suggestions.

4.6 Printing and report

Note: Please make sure you have installed the Acrobat reader 6.0 in your Windows System before using the print function.

When you are in the analysis page, you will see the [print] function on the left side. When you click on that button, the system will confirm with you to create the PDF file. If you press [OK], the system will generate the PDF format report instantly. Please select the directory to save the report and the PDF file will be opened with Acrobat Reader.

If you want to print the report with your printer, please press File->Print in your Acrobat reader. You can set up your document and printer in Acrobat Reader.

4.7 Shutting down EMAS

You can shut down EMAS 2005 in few ways: 1. click File->Exit 2. click small exit icon on the icon bar. 3. click small close box on the right top of the software. System will confirm with you before you leave EMAS 2005.

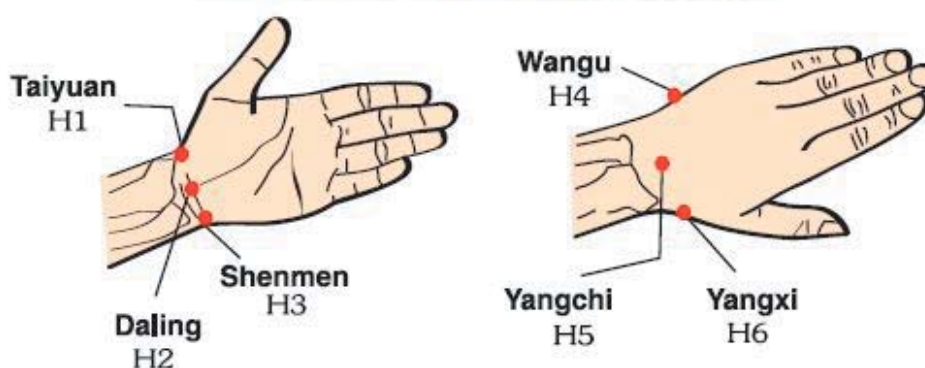
Note: Please close the EMAS 2005 software before unplugging the power of the device.

Appendix

The fundamental theory of “representative measuring points” in Ryodoraku

Theory is based on numerous clinical experiments. The representative point is chosen because its energy value is closest to the average energy value gathered from multiple acupoints of that meridian. The measured energy value of a representative acupoint can be used to deduce the average energy value of that meridian.

Measure Points on the Hand



Measure Points on the Foot



Chapter 5 Advanced Operations

5.1 Importing and Exporting Files

5.2 Manage your Library

5.3 Setting Owner Information

EMAS allows users to set up a customized database provides a shortcut to call an external program, and manage th user information to be displayed on the screen or printout.

5.1 Exporting and Importing Files

You can use the function of exporting and importing files to backup all the information in EMAS 2005 or import the former databse into EMAS 2005.

Exporting Files

The File Export function allows user to backup their own data from EMAS to another directory or diskette. The system will backup all the client's measurement records and also backup your own treatment inforamtion. Simply you can follow steps below:

Step 1 Click File->Export data

Step 2 Click [browse] to select a folder to hold the export file

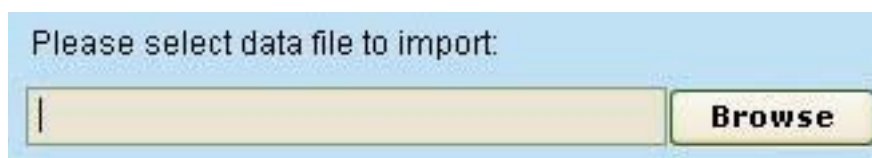
Step 3 Set your directory and database name. Default output directory is My Document directory, default name of the database is EMASdb.mdb.

You may select another drive or directory where you want to export the information to. Your data still remains in EMAS after exporting.

Step4 Press [Export] button to exprot.

Importing Files

Similar but opposite to the File Export, the File Import works in the reverse direction. It allows user to import data from another directory or diskette into EMAS. When Importing, you can either replace the analysis information data or append the new client data to the existing one. you can follow steps here:



A screenshot of a software dialog box. The title bar is light blue and contains the text 'Please select data file to import:'. Below the title bar is a light yellow rectangular area containing a text input field with a vertical cursor and a 'Browse' button to its right.

Step 1. Click File-->Import data.

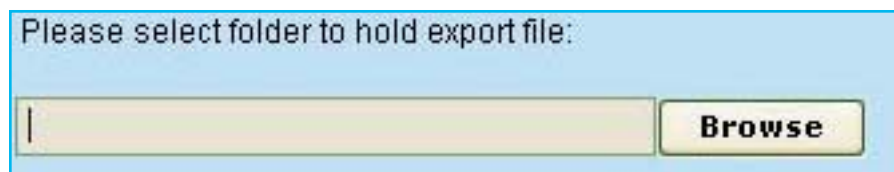
Step 2. Select your database from the directory you stored the database, directly click the database file.

Step 3. If you select the EMAS 2005 database. The system will tell you that the EMAS 2005 database is detected. You can then select the data you want to import. You can import the client information and library data.

Step 4. If you select the EMAS 2004 database from C:\Program Files\Health Epoch\MEAD5.mdb, the system will tell you that EMAS 2004 database has been detected.

Step 5 Press [Import], the database will import into the EMAS 2005 system.

Important Note: When you import the database the client information will append to the EMAS 2005 database, but the library information will overright the old one in the system.



A screenshot of a software dialog box. The title bar is light blue and contains the text 'Please select folder to hold export file:'. Below the title bar is a light yellow rectangular area containing a text input field with a vertical cursor and a 'Browse' button to its right.

5.2 Manage the Library

You can define all the information including meridian analysis, your own acupuncture style, acupressure style, life cultivation suggestions in EMAS 2005.

LU+ LI

Lu+LI+SJ

LI+SI+ST+GB

LI+SI+SP+ST

LI+SJ

SJ+ST+SP

SP+BL

SP+BL

SP+KI+BL

SP+LV+BL

Step 1 Click File-->Library manage, you will see the list of formulas at the left side. Click on the formula you want to edit.

Step 2 After you click on the meridian analysis formulas at the left side you will see four tags, including meridian analysis(possible illness) , acupuncture, acupressure and suggestion at the right side. You can directly edit the information yourself then press [Save] button.

For example, If you click on LV+ means the excess symptom of Liver meridian. Then you can click the Meridain Analysis tab , acupuncture tab, acupressure tab and suggestion tab. Please directly edit the information and press [Save] button. Once the measurement shows a Liver meridian excess, all the information will shows and also appear in the report.

Other formulas are the same too.

EMAS 2005 does not permit you to add new meridain analysis formula. If you have found new meridain analysis formulas, please contact with us and we wil update all the information in the later version.

All the information you edit will show in the meridian analysis pages, treatment pages and the report.

Meridian Analysis

Acupuncture

Acupressure

Suggestion

5.3 Setting Owner Information

You can setup customized information to be displayed on the screen or on the report printout. Click File→Application Setting you should see:

Clinic information:

Name: Please enter the title of your company ,hospital,clinic, etc.

Address: Data entered here will show the address in your report.

Phone: Data entered here will show the phone number in the report.

Title: Data entered here will shows the title of the report.Please enter something like “XXX Meridian Energy Analysis Report”. You can enter two titles here.

Application Setting

Application Setting

Clinic Information

Name

Address

Phone

Report Setting

Title

Save Cancel

Chapter 6 Explanation of EMAS Analysis

- 6.1 Explanation of Ryodoraku Theory
- 6.2 Explanation of Ryodoarku Analysis
- 6.3 Explanation of Meridian Analysis
- 6.4 How EMAS 2005 Generate Meridian Analysis and Treatment Information
- 6.5 Explanation of Acupuncture Treatments

6.1 Explanation of Ryodoraku Theory

Dr. Nakatani brought the Ryodoraku Theory to the world in 1950 from Japan. He found that there were 24 Ryodoraku points located on both hands and feet. After extensive work and intricate calculations, these 24 points clearly showed the excess or deficiency of the twelve meridians. When compared to the traditional diagnosis method such as inspection, listening, inquiring, and palpation, the Ryodoraku method presented more objective, scientific and holistic findings. These results, which anyone can observe, can be presented to the patient in printed graphic form so the patient can follow their healing progress.

For thousands of years, Traditional Chinese Medicine has always been characterized as an experience based medicine. For the past fifty years, the Ryodoraku method has continued the experience-based style, accumulating extensive clinical data related to the excess or deficient symptoms for each meridian, and then found the way to give effective treatment.

The clinical research done, based on the Ryodoraku method, revealed that the symptomlogy of each meridian is amazingly close to what Traditional Chinese Twelve Meridian Theory recorded. Therefore, we can now say that the Ryodoraku method scientifically supports the twelve-meridian model. Finding the abnormal meridians using Ryodoraku and giving



treatments such as electric acupuncture, acupuncture, herbs, acupressure, massage, Qi-gong, or Tui-Na (The traditional Ryodoraku method usually uses electrical acupuncture), the practitioner can improve patient outcome much faster than in the past. It also will attract more practitioners to collect clinical data to further research the amazing effects of this system.

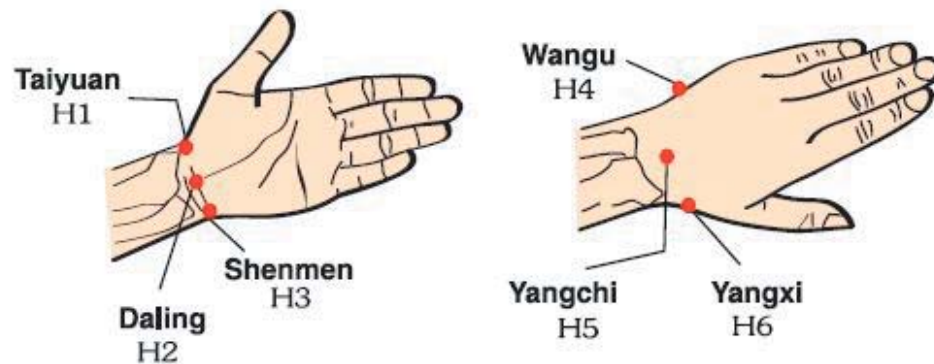


Based on traditional Ryodoraku theory, diseases of organs will reflect on the surface of the body. This type of phenomenon connects with the autonomic nervous system, therefore it appears that the Ryodoraku theory is an autonomic nerve theory.

The Autonomic Nervous System (ANS) includes both the sympathetic nerve and parasympathetic nervous systems. These two types control most of the involuntary movements of the human body. Ryodoraku points are the energy reflections on the surface of the body related to the ANS, which precisely matches the same location found when using the twelve-meridian theory of Traditional Chinese Medicine(TCM).

The traditional Ryodoraku method analyzes the digital read-out of the measurements to determine the excess or deficient points for each meridian. This is followed by using electric acupuncture on exciting or inhibiting points. This treatment will reinforce or reduce the energy on each meridian as needed. Enhancing the deficient meridians and inhibiting the excess meridians to become balanced is what Ryodoraku therapy is all about. The normality of the meridians means the ANS is also normal, resulting in the patient experiencing a naturally healthy condition.

Measure Points on the Hand



Measure Points on the Foot



What Is Ryodoraku points

In 1950, Yosio Nakatani found a series of points in which electro conductivity was higher than the surrounding area and electro resistance was lower than other areas. He named these Ryodoraku points.

Ryodoraku measurement points

Ryodoraku method measures a total of 24 points, 12 on the hands and 12 on the feet. All Ryodoraku measurement points are so-called Yuan (Source) acupuncture points, except Yangxi (LI 5) is a Jing (River) point, Shugu (BL 65) is a Shu (Stream) point, and Dazhong (KI4) is Luo (Connecting) point.

6.2 *Explanation of Ryodoarku Analysis*

A. Body Energy Level

The Body Energy Condition in EMAS is the average of the measurements from the 24 points. The normal body energy condition range is from 28 to 59. A high average indicates excess Qi and Blood while a low average indicates a deficiency of qi and blood.

The reading of body energy is obtained by calculating the measurements at the twenty-four representative points along the twelve channels on the left and right side of the patient's body. Clinically, this reading is the direct reflection of the person's body function, nutritional state, physiological or mental fatigue, and resistance to disease. It can be affected by the age, gender, etc. of the patient.

Generally speaking, a higher value means the patient has adequate body energy to accommodate the demands of physiological functioning if the related channels have no serious abnormal reaction when measured. This data should be referred to in combination with the differentiation of the individual channels.

	Hands						Feet					
	LU	PC	HT	SI	SJ	LI	SP	LV	KI	BL	GB	ST
L	40	39	27	42	51	44	34	33	23	21	15	33
R	40	45	28	55	53	52	43	38	38	19	25	38

Calculation of body energy value: Sum of the 24 points/ 24= body energy level

If the patient's energy value is higher than normal, it doesn't mean it is abnormal. It is possible that he/she has recently used energy drinks or drugs. Sometimes the beginning of a disease will also result in an excess of body energy. If none of the above apply, and the patient feels that his/her condition is good, it means that the patient exercises regularly, for example, qigong, tai chi, and has a balanced diet. Encourage the patient to continue

those kinds of good habits. Generally speaking, if the twelve meridians are normal, the higher the body energy, the better. Please pay attention, however, to certain meridians, such as the Spleen and Sanjiao. If there is a continuous reading of excess body energy in these channels, it may indicate the patient has a chronic disease.

Note: EMAS is not used for analyzing the patient who has low body energy. It is very important to note that if the patient's body energy readings are all below 15, the 12 meridian chart will look very normal (all green levels) and all the Ryodoraku analysis ratios will show normality. This doesn't mean that the patient is in good health. It may be because of the following:

1. The patient is currently catching a cold.
2. The patient has suffered from insomnia for several days or hasn't slept for a number of days.
3. The patient has continually worked for several days and he or she is exhausted and stressed.
4. The patient has continually worked in front of the computer for hours, staying up late into the night.
5. The patient has digestion dysfunction and nutrition cannot be absorbed properly.
6. The patient's immune system is declining
7. Low body energy means the qi and blood circulation of the body is not well. It normally shows that the patient has the possibility of a chronic disease, such as diabetes, asthma, tumors, etc. If the patient has been measured several times and the condition is the same, we suggest referring them to their primary doctor or the hospital.
8. Please confirm with the patient whether or not they take any drugs (sleeping pills or sedatives, etc.) on a regular basis.
9. If the patient continues to stay in the low body energy condition, please be sure to observe the condition of the Spleen and Sanjiao meridian. The Spleen meridian represents the endocrine system and the Sanjiao meridian represents the lymphatic system. If these two meridians are chronically in excess or deficiency, then there is an increase in the possibility of a chronic disease.
10. Based on Ryodoraku research, the body energy is commonly low in

winter and higher in the summer.

11. Generally speaking, the body energy is usually lower over the age of 65 because the qi and blood are more deficient.

Please discuss any of the above conditions with the patient and suggest removing any of the elements causing the low body energy. Then make another appointment to take another EMAS measurement. All the analysis ratios will not be reasonable until the body energy is normal. EMAS 2005 will show the warning message when the body energy is below 15. It will give some suggestions such as Qi-Gong or Tai Chi training or practice.

Suggestions for low body energy patient

You may want to suggest that he or she take a daily multi-vitamin /mineral supplement. Incorporate whole grains, fruits, vegetables and plenty of water into their diet to build their qi and blood. Begin an exercise program, such as qigong or tai chi. Practice stress reducing and relaxation exercises. Get plenty of sleep every night.

B.The Ratio of Metabolism (that is, the ratio of Yin and Yang)

This is the metabolism ratio of the EMAS that reflects the ratio of Yin and Yang. It is the ratio of the total of all Yin meridians divided by the total of all Yang meridians. According to the traditional Chinese Medicine theory, if the ratio of Yin and Yang, i.e. the ratio of Zang and Fu organs is moderate, then the digestion, absorption, excretion, metabolism of the Zang and Fu organs will be balanced.

Calculation the Ratio of Metabolism:

Total of twelve Yin Meridian: LU+ PC+ HT + SP + LV+ KI

Total of twelve Yang Meridian: SI+SJ+LI+BL+GB+ST

Ratio of Ying and Yang= Total of Yin Meridian/ Total of Yang Meridian

If the ratio of Zang and Fu is too low, then the ability of Zang organs to store energy is less than the ability of Fu organs to digest, absorb, and excrete. Thus, Yin is deficient; Yang is excessive. If the ratio of Zang and Fu is too high, then the ability of Zang to store energy is higher than the ability of Fu organs to digest, absorb and excrete. Thus, Yin is excessive; Yang is deficient.

The reading for metabolism of the body is reflected from the balance of the yin organs or zang (Heart, Liver, Spleen, Lungs, and Kidneys) and the yang organs or fu (Small Intestine, Large Intestine, Sanjiao, Urinary Bladder, Gallbladder, and Stomach). The degree of balance of qi and blood between the yin organs and yang organs affects the functional balance of nourishing and consuming. Imbalance in the functions of the individual Channels should not be ignored.

[Normal Metabolic Function] $\geq 0.8 < 1.2$

The balance of yin and yang organs shows the metabolism of the body is functioning properly.

[Decreased Metabolism Function] > 1.2

A reading greater than 1.15 shows that the metabolism of the body is slower than normal. The patient get drowsy, easily feels cold, or long-term diseases exist.

[Increased Metabolism Function] < 0.8

A reading lower than 0.8 shows that the metabolism of the body is faster than normal. There is inflammation or endocrine disorders.

C.The Ratio of Musculoskeletal System (ratio of left to right)

This ratio can measure the balance of the Qi and Blood in the left and right sides of the body in terms of muscle, bone, and movement. If this ratio does not show balance, Zang and Fu are not balanced; diseases arise. The normality of the left and right ratio is between 0.8-1.1 Ratios outside this range indicates imbalance.

The degree of balance between the qi and blood in the right side and left side of body affects the function of the musculoskeletal system. When an imbalance occurs in these data, it indicates a dysfunction in the nervous

system, a dysfunction in the nourishment of the musculoskeletal system and other parts of the motor system, or a dysfunction of qi and blood.

Combine this information with differentiation of the meridian syndromes for reference, especially when there are abnormalities in the Urinary Bladder, Sanjiao or Gallbladder Meridian. When there is balance between the right side and left side of the body, it means the musculoskeletal system is functioning well.

[Dysfunction of musculoskeletal system] (<0.8 or >1.1)

When the musculoskeletal system is unbalanced, there will be obstacles. The patient will feel pain or soreness in his body. It is possible to get apoplexy (wind stroke) when the musculoskeletal system is abnormal and the patient has hypertension or numbness of the limbs.

Calculation of the ratio of Musculoskeletal System:Ratio of Musculoskeletal System = Total of the left / Total of the right

D.The ratio of mental condition (ratio of upper and lower body):

This ratio can be used to estimate the mental status of the brain and upper, middle, and lower Jiaos. EMAS sets this ratio from 0.88 to 1.15. Higher ratios indicate an increase in mental activities; while lower ratios indicate a decrease in mental activities.

The state of the mental and neurological activity in the brain and the state of upper, middle and lower jiao (the three burners) can be evaluated by analyzing the degree excitement of the energy in the individual meridians on the feet and hands.

Besides qi-blood imbalances caused by external stressors, this data can also reflect an imbalance caused by abnormalities of the meridians inside. One should also pay attention to this.

[Normal Mental State]

The normal mental state shows that the patient has a good ability to withstand the pressures of daily life. The patient is not mentally stressed or weak.

[Decreased Mental State]

A mental state reflected in a reading lower than 0.9 means that the value

is below average. It shows that the patient has a lack of qi and blood, gets drowsy, and is dizzy. Their attention is not focused, their memory is poor, and their response time slows down, etc.

[Increased Mental State]

A mental state reflected in a reading higher than 1.15 means that the value is higher than average. It shows that the patient's qi and blood is over-active, and they are mentally stressed. Too much qi ascending shows mental stress, insomnia, anxiety, anger, and halitosis.

Calculation of the ratio of mental condition:

Ratio of mental condition = Total value of the hands (LU+ PC+ HT+ SI+SJ+LI) / Total value of the feet (SP + LV+ KI+ BL+GB+ST)

E. The Ratio of Autonomic Nervous System:

The ratio of the autonomic nervous system is the ratio of largest value vs. smallest value among the twelve meridians. This ratio is set within the range of 1.0-1.15. The higher the ratio, the more unbalanced the autonomic nervous system is.

The main function of the autonomic nervous system is to control the functioning of the glands, adjust the endocrine system, contract and regulate peristalsis, and to adjust the functioning of smooth muscle, cardiac muscle, etc.

Normal functioning of the organs and all parts of body depends on the normal functioning of the autonomic nerve system. Disorders of organ function or stress from the outside often affects the functioning of the autonomic nerves.

[Imbalance in Autonomic Nerve Function] >1.5

There are many factors that may result in an imbalance in the autonomic nervous system. Generally, this is divided into internal causes (for example, diseases of the internal organs, endocrine disorders) and external factors (for example, mental stresses, pressure from work, and fatigue). Based on Traditional Chinese Medical theory, this results from an imbalance of qi and blood in part or all of the body. An abnormality of the patient's autonomic nerves possibly results in difficulty sleeping or pain.

Calculation of the ratio of autonomic Nervous System:

Step 1: separate 24 readings into eight readings.

Reading 1 Left Yin Meridian of hand: LU+ PC+ HT

Reading 2 right Yin Meridian of hand: LU+ PC+ HT

Reading 3 Left Yang Meridian of hand: SI+SJ+LI

Reading 4 right Yang Meridian of hand: SI+SJ+LI

Reading 5 Left Yin Meridian of feet: SP + LV+ KI

Reading 6 right Yin Meridian of feet: SP + LV+ KI

Reading 7 Left Yang Meridian of feet: BL+GB+ST

Reading 8 right Yang Meridian of feet: BL+GB+ST

Step 2: calculate the ratio of autonomic Nervous System

The ratio of autonomic Nervous System =The biggest value of hand-feet Yin-Yang reading/ the smallest one.

F. The External-Internal Contrast Analysis:

Let's take the metal element for example. The sum of lung readings (includes left and right) minus the large intestine reading divided into 2 is the External-Internal Contrast Analysis ratio.

The analysis of External and Internal contrast analysis in EMAS gives the most effective digital read-outs in the clinical setting and is the most efficient way to design the order of treatment. For example, if the External-

Metal	Lung Meridian / Large Intestine Meridian
Wood	Liver Meridian / Gallbladder Meridian
Water	Kidney Meridian / Bladder Meridian
Ministerial Fire	Heart Meridian / Small Intestine Meridian
Ministerial Fire	Pericardium Meridian / Sanjiao Meridian
Earth	Spleen Meridian / Stomach Meridian

External and Internal meridian and five elements

Internal analysis of a patient shows the “earth” meridian is most abnormal, and the “wood” being second to it then the order of treatment would be to regulate spleen and stomach first, then to regulate liver and gallbladder. This alleviates much confusion when using the Five Elements to select your clinical treatment.

6.3 Explanation of Meridian Analysis

To explain the meridian analysis, we must first understand the bar chart of the 12 meridians. It clearly shows the excess and deficient condition of the 12 meridians. All the meridian analysis followed is totally based on this chart, so it is very important to know the detail of the chart.

The analysis chart provides the excited degree of the twelve meridians energy of the left and right side and shows it by a bar diagram. In each meridian name pane, the first point represents meridian data of left side, and the second represents that of the right side. We provide an explanation of each line here:

1. Average data of meridian energy. This line shows the average value of the 24 meridian readings. We can use the data to judge the average meridian's excited degree of the examinee and evaluate the high or low state of the body's energy and Primordial Qi.
2. Physiological reaction area limit (In EMAS , these two lines name H1, L1), These two limits are floating and unfixed data. For each examinee each new measurement, the data will change according to different physiological state of the time. The diagram exceeding the limit means the meridian has already appeared as an excess or deficiency reaction.
3. Pathological reaction area limit (In EMAS , these two lines name H2, L2) These two limits are also floating and unfixed data. For each examinee or each new measurement, the data will change according to different physiological state of the time. The diagram exceeding the limit means the meridian has already appeared pathologically as an excess or deficiency reaction, and is labeled in red in the diagram.

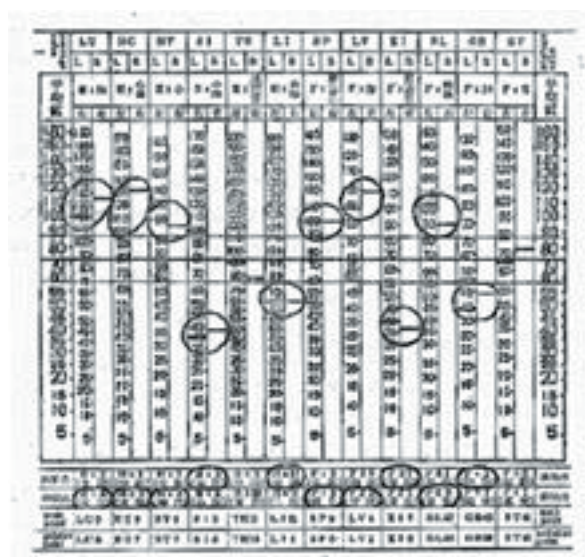


Analysis chart of Meridian excess-deficiency --Bar Diagram

4. Name of the meridian
5. Property of Five Elements of each meridian.

Note: How EMAS generate the H1, L1, H2, L2 line?

The original Ryodoraku chart uses the Ryodoraku measurement paper to record and draw the line. These two lines (H1, L1 in EMAS) were defined to be drawn 0.7cm above or below the mean value we call them the physiological lines. The 1.4cm width (H2, L2 in EMAS) is the Pathological range. The range of each section is different, for example, 10-20, 20-30.....110-120, 180-190. The higher the readings, the smaller the range (please see the picture below). We use the software to simulate the chart, so these two limit lines are floating and unfixed data.



Original Ryodoraku Chart

EMAS Multi-Meridian Diagnosis Formula

There are many possible diagnosis formulas in the function of the multi-meridian analysis. After EMAS measures the 24 points of the twelve meridians, it will automatically cross-analyze the abnormal meridians' interactions. The following serves as an example: One patient's Lung Meridian, Sanjiao Meridian and Large Intestine Meridian are all abnormal at the same time. Based on 50 years of clinical experiences, it was found that having those three meridians simultaneous abnormal they usually exhibit symptoms of catching a cold or a skin problem.

Based on Traditional Chinese Medicine theory, the Lung is connected with all the vessels, it governs the skin and also has an external-internal relationship with the Large Intestine Meridian. Once the exogenous pathogenic factors invade the body, they usually attack the skin first and then affect the lung. Very clearly, EMAS's diagnosis matches the Traditional Chinese Medicine theory and using EMAS you can prevent further health problems. EMAS provides many suggested treatment protocols and these continue to be improved as more clinical data is collected. It is very apparent that EMAS is more than a diagnosis system; it is a combination of all the wisdom and experience of Traditional Chinese Medicine, modern scientific investigations and clinical practices.

Here are the lists of the diagnosis formula EMAS provided:

Formula	Explanation	Possible Symptoms and illness
LU+ LI	The lung meridian and Large Intestine meridian are abnormal at the same time	1.Common cold, upper respiratory infection (abnormal skin or inflammations) 2.Shoulder and neck pain. 3.Abdominal pain, diarrhea or constipation 4.Toothache (not decayed tooth), neck pain, skin problems, stuffy nose, running nose, epistaxis

LU+ LI+ SJ	Lung meridian, Large Intestine meridian and Sanjiao meridian are abnormal at the same time	<ol style="list-style-type: none"> 1 . The patient is catching a cold now or going to catch a cold 2. Shoulder pain or neck pain 3. Get tired easily or chronic fatigue 4. Abdominal pain, diarrhea or constipation 5. The patient maybe has no sufficient rest or repose result from tour or life style is not regular.
LI + SI + ST+ GB	Large intestine , Small intestine Stomach Intestine and Gallbaldder meridians are abnormal at the same time	Digestive related diseases such as colitis, gastritis,duodenitis,diseases of biliary tract...etc.
LI+ SI+ SP+ ST	Large Intestine, Small Intestine ,Spleen and Stomach meridians are abnormal at the same time	colitis, gastritis,duodenitis,duodenal ulcer...etc.
LI+ SJ	Large intestine and Sanjiao meridian are deficient at the same time	<ol style="list-style-type: none"> 1. Get tired easily, chronic fatigue 2. Shoulder or neck pains 3. Chronic rhinitis, allergic rhinitis, angina
SJ+ SP+ ST	Sanjiao, Stomach and Spleen meridian are excess at the same time	<ol style="list-style-type: none"> 1. Acute or chronic gastroenteritis,flatulence,hyperacidity,Gastric ulcer,Duodenal ulcer 2. Dyspepsia,anorexia,vomit 3. Stomatitis,halitosis 4. Diarrhea or constipation

SP+ BL(1)	Spleen and Bladder meridian are abnormal at the same time	1. dyspepsia,blood sugar abnormal 2. Back pain, waist pain 3. Chronic arthritis,four limbs and muscle pain
SP+ BL(2)	Spleen and Bladder meridian are excess at the same time	1. Uric acid,gouty arthritis 2. If the patient is female, sometimes means she has menstruation now. 3. Backache , waist pain, neck pain , eye pain 4. Dyspepsia,malnutrition(malabsorption syndrome)
SP+ KI+BL(1)	Spleen,Kidney and Bladder meridian are excess at the same time	1. Urinary system diseases 2. Pyelitis,renal calculus 3. Urinary frequency
SP+ LR+ BL(2)	Spleen,Liver and Bladder meridian are abnormal at the same time	1. Urinary system diseases 2. Pyelitis,renal calculus,calculi in urinary system 3. Urinary frequency
SP+ KI	If the metabolism function is decreasing, Spleen and Kidney meridian are abnormal at the same time	1. Diabetes(usually shows spleen meridian abnormal , kidney meridian deficiency) 2. Overweight, obesity 3. Reproduction system diseases.

SP+ ST	Spleen and Stomach meridian are abnormal at the same time	<ol style="list-style-type: none"> 1. Functional astointestinal disorder, gastritis, gastroduodenitis, gastropstosis, hyperacidity, stomach dilatation,flatulence,peptic ulcer,Gastric ulcer, 2. Nausea and vomiting 3. Get tired easily, marasmus or overweight
SP+ LR+ KI	Spleen,Liver and Kidney meridian are excess at the same time	<ol style="list-style-type: none"> 1. If the male is over 45, be notice about the prostatitis or prostate gland diseases 2. If the patient is female, be notice about the carcinoma of cervix, ovary and diseases realted to uterus. 3. Reproduction system diseases
HT+ SI	Heart,Small intestine meridian are abnormal at the same time,	<ol style="list-style-type: none"> 1. Chest pain, chest oppression, neuralgia ,abnormal blood circulation in chest. 2. Shoulder pain and neck pain 4. Urinary system abnormal 5. Thirsty, dry month 6. Excretory system abnormal
HT+ SP	Heart meridian excess and Spleen meridian deficient at the same time	<ol style="list-style-type: none"> 1. Constipation or diarrhea (more diarrhea) 2. Heart related diseases such as palpitation, insomnia 3. Four limbs weakness,anorexia ,dyspepsia.

HT+ BL	Heart meridian deficient and Bladder meridian deficient at the same time	<ol style="list-style-type: none"> 1. Heart realated diseassses ,blood pressure abnormal 2. Body sores or pains,waist pain, shoulder pain, neck pain 3. Diziness, vertigo , tired easily
HT+ KI	Heart and Kidney meridian are deficient at the same time	<ol style="list-style-type: none"> 1. Diziness, vertigo , tired easily 2. Amnesia 3. Brain related diseases 4. Parkinson's disease
PC+ HT(1)	Heart and Pericardium meridian are excess at the same time	<ol style="list-style-type: none"> 1. Hypertension,hyperlipidemia 2. Arrhythmia, chest pain or oppression 3. Inflammation of urinary system 4. Dry month or tongue related diseases 5 Dreamness or insomnia
PC+HT(2)	Heart and Pericardium meridian are deficeint at the same time	<ol style="list-style-type: none"> 1. Heart related diseases 2. Chest pain or oppression. 3. apoplexy, stroke, heart weakness 4. Arrhythmia 5. Diziness, vertigo , tired easily,amnesia 3. Shoulder or neck pain

KI+BL	Kidney and Bladder meridians are deficient at the same time	<ol style="list-style-type: none"> 1. If the patient is over 40, be notice to the osteoporosis(Kidney governs bone) 2. Urinary system problems such as urethritis,urinary tract infection,urination disorders. 3. Get tired easily, waist pain, sciatica 4. Diseases related to back or vertebra
SJ+ BL	Sanjiao and Bladder meridians are excess at the same time	<ol style="list-style-type: none"> 1. If the patient is over 50, it is possible to have urinary frequency,urinary incontinence 2. Acute or chronic Cystitis, urinary system problem 3. Backpain , waist pain 4. Deafness,tinnitus, ear problems. 5. Neck pain,shoulder pain
LR+ KI (1)	Liver and Kidney meridians are abnormal at the same time	<ol style="list-style-type: none"> 1. Reproduction system diseases. Female must take notice of diseases on ovary or uterus; male must take notice of diseases on prostate gland 2. Cystitis or urethritis 3. Dizziness, tinnitus, waist pain 4. Sexual problems such as sexual impotence
KI+ BL(1)	Kidney meridian deficient and Bladder meridians excess at the same time	<ol style="list-style-type: none"> 1. waist pain, lower limbs weakness 2. If the patient is a child, then possibility of enuresis 3. Get tired easily 4. Urinary system problem 5. Tinnitus, dizziness 6. Blood pressure abnormal

KI+ BL(2)	Kidney meridian deficient and Bladder meridians excess at the same time	<ol style="list-style-type: none"> 1. waist pain, lower limbs weakness 2. If the patient is a child, then possibility of enuresis 3. Get tired easily 4. Urinary system problem 5. Tinnitus, dizziness 6. Blood pressure abnormal
LR+ KI(2)	Deficiency of the Liver Meridian and Kidney Meridian exist at the same time	<ol style="list-style-type: none"> 1. Weak or painful limbs, waist pain 2. Hair senescence(gray) 3. If the patient is a female, then possibility of dysmenorrhea 4. If the patient is over 40, then possibility of menopausal syndrome 5. Headache, dizziness, tinnitus 6. Diseases of reproduction system 7. Amnesia
SJ+ BL(1)	Deficiency of the bladder Meridian and sanjiao Meridian is abnormal	<ol style="list-style-type: none"> 1. Frequent urination result from bladder meridian 2. Urinary system problem
SJ+ BL(2)	Excess symptoms of the bladder Meridian and sanjiao Meridian at the same time	<ol style="list-style-type: none"> 1. Dizziness, feel like to take bed rest, back or waist pain 2. Cystitis 3. Shoulder and neck pain 4. Tinnitus
SJ+ GB	Sanjiao Meridian and Gallbladder meridian are abnormal at the same time	<ol style="list-style-type: none"> 1. Migraine (the blood circulation of head is not well) 2. Sciatica 3. Shoulder or neck pain 4. Trigeminal neuralgia

SJ+ SI+ KI	Sanjiao Meridian, Small Intestine and Kidney meridians are excess at the same time	<ol style="list-style-type: none"> 1. Tinnitus, deafness, dizziness 2. Shoulder or neck pain 3. Urinary system abnormal 4. Digestive system abnormal
LV+ST	Liver and stomach meridians are excess at the same time	<ol style="list-style-type: none"> 1. Digestive system disorder such as vomit,hiccup, stomachache,abdominal distention ,chest oppression 2. Bad sleep quality, insomnia 3. Pain in the lateral costal region,jaundice ,anorexia 4. No patience, get angry easily
LR+ GB (1)	Liver and Gallbladder meridians are deficient at the same time	<ol style="list-style-type: none"> 1. Possibility of drink too much,alcoholism 2. Pain in the lateral costal region,jaundice ,anorexia 3. Dizziness, get tired easily
SJ+ LV	Sanjiao and Liver meridians are excess at the same time	<ol style="list-style-type: none"> 1. Hepatitis,pain in the lateral costal region 2. Bad sleep quality, insomnia 3. Digestive system problem 4. Eye sore,eye strain 5. No patience, get angry easily
LR+ GB(2)	Liver and Gallbladder meridians are excess at the same time	<ol style="list-style-type: none"> 1. Inflammation of biliary system, cholangitis,hepatitis 2. Eyes sore, dizziness 3. Digestive system problem 4. Pain in the lateral costal region,jaundice ,anorexia 5. No patience, get angry easily

	Lung, Sanjiao, Large Intestine, Spleen and gallbladder meridians are abnormal at the same time	Asthma
LU+ LI(2)	Lung and Large Intestine meridians are deficient at the same time	1. Chest weakness, sometimes shows the patient have the habit of smoking 2. Shoulder or neck pain 3. Cough, chest oppression, asthma 4. Diarrhea, abdominal pain
HT+KI	Heart meridian is excess and Kidney meridian is deficient at the same time	1. Thirsty, polydipsia 2. Palpitation, anxiety, insomnia 3. Tinnitus, waist sore or weakness 4. Dizziness, amnesia 5. Nervous, stress

Note:

- Excess of the meridian means the reading is above the average line (please check the 12 meridian bar chart.)
- Deficient of the meridian means the reading is below the average line (please check the 12 meridian bar chart.)
- Abnormality of the meridian means excess or deficient of the meridian.
- More explanation information is provided in EMAS 2005 software.
- EMAS information can't 100% predict the diseases. If you disagree with the analysis information, please edit yourself in EMAS 2005.
- EMAS is solely for medical research and reference purpose only. EMAS is not responsible for any medical actions and results in any ways.

6.4 How EMAS 2005 Generate Meridian Analysis

and Treatment Information

EMAS automatically analyzes the twelve meridian chart and then generates the meridian analysis information (including possible illnesses) and related treatment suggestions.

EMAS analyzes the excess or deficient condition from the chart and compares it with the library in the database. If the chart matches the formula in the library, it will automatically show the information. For example, if the patient's large intestine and sanjiao meridians are deficient at the same time, the system will show the analysis, and then suggest an acupuncture treatment, acupressure treatment, and related suggestions.

When referring to an excess of the meridian, this means the reading is above the average line. A deficiency of the meridian means the reading is below the average line. Abnormality of the meridian means excess or deficiency of the meridian.

When reading the analysis chart, the color red means the excess or deficient condition is above or below H2, L2. The color yellow means the excess or deficient condition is above or below H1, L1.

EMAS defines an excess or deficient condition as having both the left and right sides showing yellow or red. If only one side is abnormal (i.e. the left side is showing red and the right side is green), please continue to monitor, as the system will not analysis this abnormality.

A common question which is often asked is: "When there is some red or yellow color in the twelve meridian chart, why doesn't the system show an analysis or suggest treatments? Is something wrong with the system?"

Actually, it is not an EMAS system error. EMAS 2004 analyzed the meridian chart using the following rule: Once there is one side of the meridian in the yellow or red range, the system will take it into consideration. Base on prior experience, EMAS always generated a lot of anaylsis information which

made the patient very uncomfortable because some of the information did not match their health condition. For example, the patient's lung meridian shows deficient yellow on the left side. The system will show the mono-meridian analysis and also crossover analysis information. In clinical use, one side having an abnormal meridian is very common and the system generates too much information, making both the patient and doctor confused.

EMAS 2005 uses a new simpler rule. It only shows the abnormal meridian information when both sides of the meridian are excess or deficient. Practitioners must use their knowledge and experience to explain why only one side of the meridian is abnormal.

Normally, the readings on the left and right side of a meridian will be almost the same. When the readings of the left side and right side vary a lot, it maybe due to a measurement error, such as wrong points, wrong measurement pressure, or some other oversight. If you measure again and confirm that the left and right readings differ greatly, please give a treatment on that meridian first because it is very abnormal and unusual.

In clinical use, if you see one side of the meridian is red (excess or deficient) and the other side is green, or one side is red (excess) the other side is red (deficient), please make a note of that meridian and confirm again whether it is really abnormal or not. **If the left and right side of the meridian is largely imbalanced, please do a treatment on that meridian even though the system does not show that meridian in its treatment suggestions.**

EMAS 2005 only helps the practitioner diagnose the twelve meridians but does not totally replace the role of practitioner.

6.5 Explanation of Acupuncture Treatments

EMAS 2005 provides four different kinds of acupuncture treatment styles,

Including Traditional acupuncture treatment(EMAS-EMA EMAS electro meridian acupuncture), Ryodoraku treatment, Tung's acupuncture treatment, Son-mother treatment.

Ryodoraku treatment

EMAS provide the ryodoraku treatment points whenever the meridian is excess, then using the inhibit points, the meridian point is deficient , then using the excited points.

Meridian	Excess point(inhibit points)	Deficient point(excited points)
Sanjiao	TianJing (SJ10)	ZhongZhu (SJ3)
Large intestine	ErJian (LI2)	QuChi(LI11)
Small intestine	XiaoHai (SI8)	HouXi (SI3)
Pericardium	DaLing (PC 7)	ZhongChong (PC 9)
Heart	ShenMen (HT7)	ShaoChong (HT9)
Liver	XingJian (LR2)	QuQuan (LR8)
Lung	ChiZe (LU5)	TaiYuan (LU9)
Stomach	LiDui (ST45)	JieXi (ST41)
Kidney	FuLiu (KI 7)	YongGuan (KI 1)
Spleen	Shangqiu(SP5)	DaDu (SP2)
Bladder	SuGu (BL65)	ZhiYin (BL67)
Gallbladder	YangFu (GB38)	XiaXi (GB43)

Traditional acupuncture treatment (EMAS electro meridian acupuncture, EMAS-EMA)

EMAS-EMA theoretical basis

EMAS electro meridian acupuncture(EMAS-EMA) mainly uses several application of needles described in Yellow Empero's Canon Internal Medicine combining with ryodoraku theory. In brief, we can say that using EMAS to diagnose abnormal meridian in few minutes, then use those application of needles to apply acupuncture treatment. In Ling Shu(Spiritual Pivot) chapter 7 Guan Zhen(On the application of needles) described several acupuncture method. "There are nine kinds of needling to suit the nine kinds of pathological change"including Shu-Needling,distant-needling,meridian-needling,blooding-letting-needles,intermuscular-needling,drainage-needling,skin-needling,opposing-needling,red-hot-needling. Five of them are usually used by EMAS-EMA:

- 1. Shu-Needling:** To prick the Shu points on the various Jing(Well),Xing, Shu, Jing(River) and the He points of the twelve meridians on the extremities and the visceral acupoints on the back and the two lateral sides
- 2. Distant-needling:** To prick the acupoints on lower part when the disease is in the upper part...etc.
- 3. Meridian-needling:** To prick the knots or hardness that connect the deep lying channel.
- 4. Bleeding-letting-needles:**To prick and blood letting the superficial and small vien beneath the skin.
- 5. Opposing-needling:** To prick the points contralateral to the affected side.

It also mention later about the twelve methods in pricking to treat the various diseases of the twelve meridians, three of them are used by EMAS-EMA:

- 1.Uneven-puncture:** To prick the center of the affected part with one needle and both sides with two needles respectively,it is also called triple-puncture...etc.
- 2.Yang-puncture:** to prick the center of the affected part with one needle and prick the four sides with four needles...etc
- 3.Nearby-needle puncture:** To prick straightly the affected part with one

needle and prick nearby location with another needle...etc.

Modern history Tung's acupuncture presents the the concept of "Dao Ma puncture Method" (Parallel needles technique, 2 or 3 needles.) The concept of "Dao Ma puncture Method" is quite the same with distant-needling, meridian-needling, bleeding-letting-needles,opposing-needling. Also using the uneven-puncture method(using 2-3 needles at the same time, Using combination acupoints with treatments usually has well effecton.

EMAS-EMA synthesizethe concept of Yellow Empero's Canon Internal Medicineand Tung's acupuncture, combining with Ryodoraku theory's diagnostic system to gernerate EMAS-EMA

The characteristic of EMAS Electro Meridian Acupuncture.

1. Use the 12 meridian analysis charts: The Ryodoraku twelve-meridian analysis that takes less then 3 minutes is the basis to examine and measure the abnormal meridians. It is accurate and fast.

2. Base on the traditional therapy principle –“Would rather missing the acupuncture points than missing the meridian!”: The importance of regulating the meridian is placed higher than regulating individual points. EMAS meridian acupuncture places more emphasize on regulating the meridians in the whole body than the individual selection of points. An experienced acupuncturist could combine the effectiveness of the individual points to regulate and balance the meridians of the whole body. For example: A patient has sore and painful neck, after the EMAS meridian measurement, one may first regulate small intestine meridian since it's abnormal, followed by treating the pain in the neck. An experienced acupuncturist can use the small intestine points that treat the neck pain and balance the meridians, covering both situations while using fewer needles.

3. Distal curative point(Five Shu points) selection-upper body diseases treated with lower body points; lower body diseases treated with upper body points: Every acupuncturist should know that each acupuncture point has its distal and proximal curative effect. EMAS-EMA chooses distal points for most of the acupuncture suggestion points. Since the meridians are connected with each other, using distal points can treat both the disease in the same meridian and the disease in the intersecting meridians. The effect

of this kind of distal point selection is usually more apparent and fast acting than using the tender spots (Ashi) for point selection.

4. Use 2-3 needles at the same time, no needling technique needed:

EMAS-EMA use the concept of uneven-puncture, use 2-3 needles at the same time, no needling technique needed. We do not use the needling technique because we would not like to put more painful memory for the patient but the effect would not be less than needling technique. You can also use Yang-puncture or Nearby-needle puncture method.

4. Use uncertain (Ashi) points on abnormal meridian: EMAS-EMA will suggest acupuncturist to press the patient's abnormal meridian to find out some tender points, that may be the points we need to select.

5. Using Blood-letting puncture or cupping method if there is the long-term disease: Because the bruise always exists when the diseases last for a long time. You can use distal acupoints or Ashi-point to do blood letting or cupping.

6. Opposing-needling : when the pain is in the left side, then do treatment of the right, when the pain is in the right side, then do treatment of the left. Especially on pain related diseases.

7. Lower risk, higher efficacy of distal curative point selection: Ninety percent of the suggested points are below the knees and elbows in EMAS multimeridian analysis. Acupuncturists can select additional corresponding points on the abnormal meridian according to treatment plan.

8. The effect of the treatment can be proved: After a patient receives treatment using the EMAS meridian acupuncture method, assuming it's not chronic or some special disease, generally the meridian will return to a normal, balanced value; the disease will go away naturally. When the patient returns, their meridians should be checked again, and also obtain the patient's feedback from the previous treatment.

(EMAS strongly recommends doing only one set of measurements per day. The meridian system must be allowed time to balance itself before the next set of measurements are obtained. This is necessary in order to obtain valid measurements.)

EMAS provide traditional acupuncture points. We do not provide inhibit

points or excited points like Ryodoraku theory. Once you Use 2-3 needles on the meridian at the same time no matter it is excess or deficient, the meridian will adjust itself without any stimulation technique.

We choose 2-5 acupuncture points which most of them are Five –Shu points of each meridians, when the system detect excess or deficient of the meridian, it will list the sum of the acupuncture points. You can use all the acupuncture points system suggest, you can also define your own representative points.

All the points EMAS provide are on hands and feet and some of them are Five –Shu points. It has fewer risk and really effective as a distal treatment. We invite you to use those points even the patient's diseases looks irrelevant with the acupuncture points, sometimes you will experience the amazing result.

All the acupoint suggestions will show up only the meridian are both in yellow or red color.If there is only one side abnormal a lot or one side deficient and the other side excess, please decide how to do treatment yourself.

Meridian	Excess or deficient points	Meridian
Sanjiao	SJ5(WAI GUAN), SJ3(ZHONG ZHU), SJ2(YE MEN)	Sanjiao
Large intestine	LI4(HE GU), LI3(SAN JIAN), LI2(ER JIAN)	Large intestine
Small intestine	SI3(HOU XI),SI4(WAN GU)	Small intestine
Pericardium	PC5(JIAN SHI),PC6(NEI GUAN),PC7(DA LING)	Pericardium

Heart	H7(SHEN MEN),H6(YIN XI),H5(TONG LI)	Heart
Liver	LR3(TAI CHONG),LR4(ZHONG FENG),SP6(SAN YIN JIAO),LR5(LI GOU)	Liver
Lung	LU5(CHI ZE), LU6(KONG ZUI),LU7(LIE QUE),LU10(YU JI)	Lung
Stomach	ST36(ZU SAN LI),ST37(SHANG JU XU),ST39(XIA JU XU)	Stomach
Kidney	KI3(TAI XI),KI7(FU LIU),SP6(SAN YIN JIAO),SP9(YIN LING QUAN)	Kidney
Spleen	SP9(YIN LING QUAN), SP8(DI JI),SP6(SAN YIN JIAO)	Spleen
Bladder	Related acupuncture points on the back, please diagnose with other meridians.	Bladder
Gallbladder	GB34(YANG LING QUAN),GB35(YANG JIAO),GB39(XUAN ZHONG)	Gallbladder

Tung's acupuncture treatment

EMAS 2005 provide Tung's acupuncture points. We provide Tung's

acupuncture points because it really works and effective. Please check our website to get more information about Tung's acupuncture points.

Meridian	Excess or deficient points
Sanjiao	zhong-Bai, Xia-Bai
Large intestine	Ling-Gu, Da-Bai
Small intestine	Wan-Shu two points
Pericardium	Xin-Ling Three Points
Heart	Xin-Ling Three Points
Liver	Tian-Huang, Di-Huang, Ren-Huang, Gan-Men
Lung	Ren-Shi, Di-Shi, Tian-Shi
Stomach	Si-Hua-Shang, Si-Hua-Zhong, Si-Hua-Xia
Kidney	Tian-Huang, Di-Huang, Ren-Huang
Spleen	Tian-Huang, Di-Huang, Ren-Huang
Bladder	Zheng-Shi, Zheng-Zong, Zheng-Jin
Gallbladder	Wai-San-Guan, Ce-San-Li

Son-mother reinforcing and reducing acupuncture method

Son-mother reinforcing and reducing acupuncture method is based on the five element theory. The rule of it : Reducing the son meridian, Reinforcing the restraint meridian if there is Excess syndrome; Reinforcing the mother meridian, reducing the restraint meridian if there is deficient syndrome.

Meridian	Excess points	Deficient points
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Sanjiao	Excess syndrome of Sanjiao Meridian: Reinforcing TianJing(SJ10),reducing YeMen(SJ2); reinforcing ZuTongGu(BL66), reducing ZuSanLi(ST36)	Deficient syndrome of Sanjiao Meridian: Reinforcing ZhongZhu(SJ3), reducing YeMen(SJ2); reinforcing ZuLinQi(GB41), reducing ZuTongGu(BL66)
Large intestine	Excess syndrome of large Intestine Meridian: Reinforcing YanXi(LI5),reducing ErJian(LI2); reinforcing YangGu(SI5), reducing ZuTongGu(BL66)	Deficient syndrome of large Intestine Meridian: Reinforcing QuChi(LI11), reducing YangXi(LI5); reinforcing ZuSanLi(ST36), reducing YangGu(SI5)
Small intestine	Excess syndrome of Small Intestine Meridian: reinforcing QiangGu(SI 2), reducing Xiaohai (SI 8); reinforcing ZuTongGu(BL66), reducing ZuSanLi(ST36).	Deficient syndrome of Small Intestine Meridian: Reinforcing QianGu(SI2), reducing XiaoHai(SI8); reinforcing ZuTongGu(BL66), reducing ZuSanLi(ST36)
Pericardium	Excess syndrome of Pericardium Meridian: Reinforcing DaLing(PC7),reducing QuZe(PC3), ; reinforcing YinGu(KI10), Reducing TaiBai(SP3).	Deficient syndrome of Pericardium Meridian: Reinforcing ZhongChong(PC9), reducing QuZe(PC3); reinforcing DaDun(LR1), reducing YinGu(KI10)
Heart	Excess syndrome of Heart Meridian: Reinforcing ShaoHai(HT3),reducing ShenMen(HT7); reinforcing YinGu(KI10), reducing TaiBai(SP3)	Deficient syndrome of Heart Meridian: Reinforcing ShaoChong(HT9), reducing ShaoHai(HT3)(disease); reinforcing DaDun(LR1), reducing YinGu(KI10)

Liver	Excess syndrome of Liver Meridian: Reinforcing ZhongFeng(LR4), reducing XingJian(LR2); reinforcing JingQu(LU8), reducing ShaoFu(HT8)	Deficient syndrome of Liver Meridian: Reinforcing QuQuan(LR8), reducing ZhongFeng(LR4); reinforcing YinGu(KI10), reducing JingQu(LU8)
Lung	Excess syndrome of Lung Meridian: reinforcing YuJi(LU10), reducing ChiZe(LU5); reinforcing ShaoFu(HT8), reducing YinGu(KI10)	Deficient syndrome of Lung Meridian: Reinforcing TaiYuan(LU9), reducing YuJi(LU10), reinforcing TaiBai(SP3), reducing ShaoFu(HT8) .
Stomach	Excess syndrome of Stomach Meridian: Reinforcing XianGu(ST43), reducing NeiTing(ST44), reinforcing ZuLinQi(GB41), reducing ShangYang(LI1)	Deficient syndrome of Stomach Meridian: Reinforcing Jiexi(ST41), reducing XianGu(ST43), reinforcing YangGu(SI5), reducing ZuLinQi(GB41)
Kidney	Excess syndrome of Kidney Meridian: Reinforcing TaiXi(KI3), reducing YongQuan(KI1), reinforcing TaiBai (SP3), reducing DaDun(LR1)	Deficient syndrome of Kidney Meridian: Reinforcing FuLiu(KI7), reducing TaiXi(KI3); reinforcing JingQu(LU8), reducing TaiBai(SP3).
Spleen	Excess syndrome of Spleen Meridian: Reinforcing YinBai(SP1), reducing Shangqiu (SP5); reinforcing DaDun(LR1); reducing JingQu(LU8)	Deficient syndrome of Spleen Meridian: Reinforcing DaDu(SP2), reducing YinBai(SP1); reinforcing ShaoFu(HT8), reducing DaDun(LR1)

Bladder	Excess syndrome of Bladder Meridian: Reinforcing WeiZhong(BL54), reducing ShuGu(BL65); reinforcing ZuSanLi(ST39), reducing ZuLinQi(GB41)	Deficient syndrome of Bladder Meridian: Reinforcing ZhiYin(BL67), reducing WeiZhong(BL54); reinforcing ShangYang(LI1), reducing ZuSanLi(ST36)
Gallbladder	Excess syndrome of Gallbladder Meridian: Reinforcing QiaoYin(GB44), reducing YangFu(GB38); reinforcing ShangYang(LI1) , reducing YangGu(SI5)	Deficient syndrome of Gallbladder Meridian: Reinforcing XiaXi(GB43), reducing ZuQiaoYin(GB44); reinforcing ZuTongGu(BL66) , reducing ShangYang(LI1)