

ACUPUNCTURE TECHNIQUES

## Contemporary Acupuncture Diagnosis: Electro-Meridian Imaging

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In 1951, Yoshio Nakatani, MD, PhD, developed *ryodoraku*, a method of examining the meridian system of the body through electronic measurements. The method would become international within 25 years, and alter the way acupuncture would be practiced throughout Japan, Europe, Australia and North America. Circa 1957, a medical delegation from the People's Republic of China visited Japan and became fascinated with Dr. Nakatani's discovery. The Chinese delegation visited Nakatani's clinic, made detailed observations of the procedure, and was amazed at its theory and therapeutic effects. Following the delegation's return to the PRC, the daily newspapers published several articles concerning *ryodoraku* examination and treatment, together with case reports of treatment. Requests were made of Dr. Nakatani to visit the PRC, though he declined all invitations due to political concerns. Eventually, reports of *ryodoraku* and electronic evaluation of the meridian system would stop coming from China, although it is agreed by authorities that needle/electronic analgesia developed in China was spawned by Nakatani's original work.

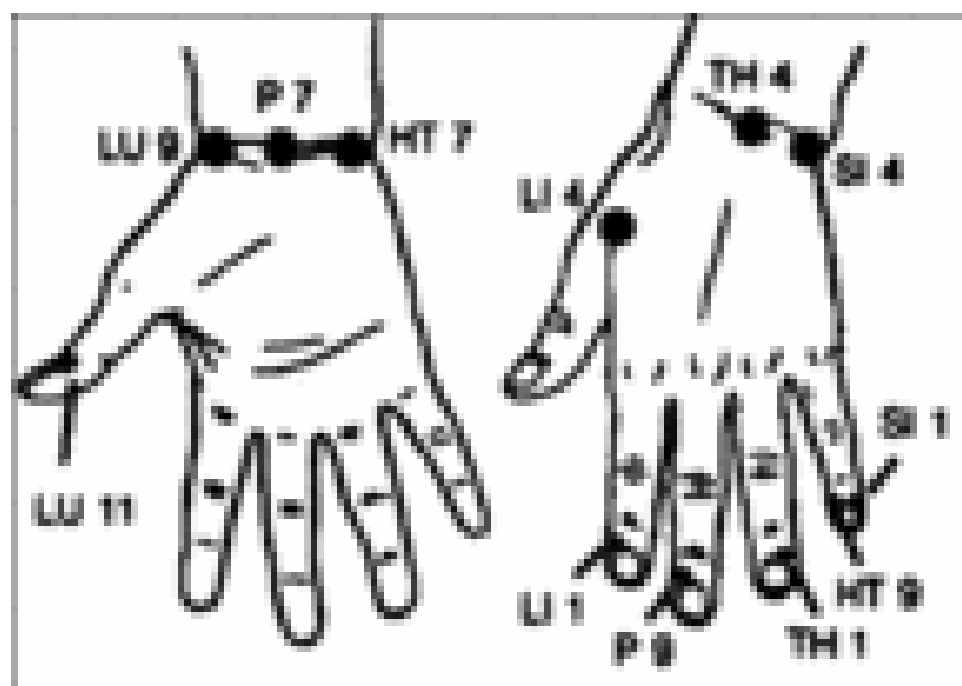
Nakatani first developed the procedure of electronic evaluation of the meridian system by measuring skin conductance at the *yuan* (source) point of the wrist and ankle, creating one of the most significant acupuncture diagnostic methods. It is unrivaled in contemporary or traditional acupuncture. When one compares the findings of learned Asian masters of acupuncture using pulse diagnosis with the findings of *ryodoraku*, the meridians involved are identical. Masters of acupuncture are known to palpate the 12 pulse positions for as long as 15-30 minutes per wrist in select cases. Electronic evaluation of the 12 *yuan* points takes less than two minutes, regardless of the complications of the case.

Electronic measurement evaluation of the patient's *yuan* points does not determine the same indications seen as when the specific 28 pulse characteristics are analyzed via proper pulse diagnosis. It does, however, determine if an individual meridian has an excess or deficiency in comparison to the entire system average of the 12 primary meridians.

LU-9	P-7	HT-7	SI-4	TH-4	LI-4	SP-3	LV-3	KI-3	BL-64	GB-40	ST-42		
L R	L R	L R	L R	L R	L R	L R	L R	L R	L R	L R	L R		
200	200	200	200	200	200	200	200	200	200	200	200		
190	190	190	190	190	190	190	190	190	190	190	190		
180	180	180	180	180	180	180	180	180	180	180	180		
170	170	170	170	170	170	170	170	170	170	170	170		
160	160	160	160	160	160	160	160	160	160	160	160		
150	150	150	150	150	150	150	150	150	150	150	150		
140	140	140	140	140	140	140	140	140	140	140	140		
130	130	130	130	130	130	130	130	130	130	130	130		
120	120	120	120	120	120	120	120	120	120	120	120		
110	110	110	110	110	110	110	110	110	110	110	110		
100	100	100	100	100	100	100	100	100	100	100	100		
90	90	90	90	90	90	90	90	90	90	90	90		
80	80	80	80	80	80	80	80	80	80	80	80		
70	70	70	70	70	70	70	70	70	70	70	70		
60	60	60	60	60	60	60	60	60	60	60	60		
50	50	50	50	50	50	50	50	50	50	50	50		
40	40	40	40	40	40	40	40	40	40	40	40		
30	30	30	30	30	30	30	30	30	30	30	30		
20	20	20	20	20	20	20	20	20	20	20	20		
10	10	10	10	10	10	10	10	10	10	10	10		
5	5	5	5	5	5	5	5	5	5	5	5		
Meridian		LU	P	HT	SI	TH	LI	SP	LV	KI	BL	GB	ST
Sedate		LU-5	P-7	HT-7	SI-8	TH-10	LI-2	SP-5	LV-2	KI-1	BL-65	GB-38	ST-45
Tonify		LU-9	P-9	HT-9	SI-3	TH-3	LI-11	SP-3	LV-3	KI-7	BL-47	GB-40	ST-41
Source		LU-9	P-7	HT-7	SI-4	TH-4	LI-4	SP-3	LV-3	KI-3	BL-64	GB-40	ST-42
LUO		LU-7	P-6	HT-6	SI-7	TH-6	LI-6	SP-4	LV-6	KI-4	BL-68	GB-37	ST-40

Example graph (conducted without computer program) showing involved meridians (high, low, split). Bottom of graph illustrates acupoints to use for tonification, sedation or luo points.

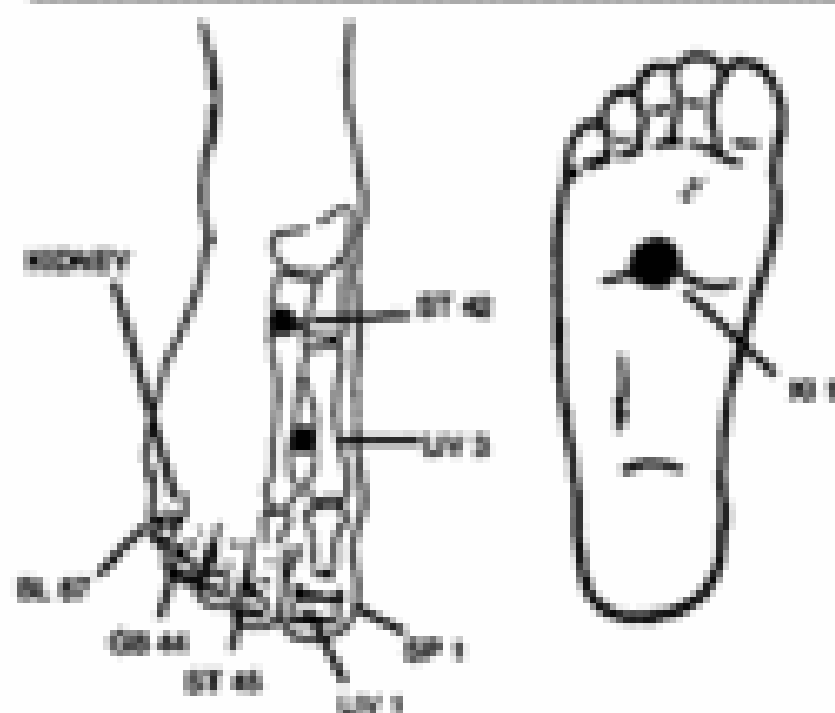
When one finds an elevated or deficient meridian using *ryodoraku*, the treatment approach is to specifically tonify or sedate the acupuncture points known to replenish or deplete biomagnetic energy. This action will create balance in the meridians. Electronic measurements are ascertained by examining the bilateral 24 specific *yuan* points of the wrist and ankles for only three seconds per point.



### SOURCE (YUAN)



### TSING (JING-WELL)



Source (yuan) and tsing (jing-well)  
points of the wrists, ankles and feet.

*Ryodoraku* is practiced by measuring the source point with an inexpensive instrument designed specifically for this purpose. By adding the measured values of each of the 12 meridian exam points together and dividing by 24 (representing the 12 bilateral meridians), the practitioner may develop a base average. The status of the meridians may be determined as being too high or too low in relation to the base average. In the mid-1980s, the art of electronic evaluation for diagnostic purposes in acupuncture used high technology by incorporating computer enhanced evaluation.

One of the most significant discoveries of *ryodoraku* was split meridians, which had never before been seen or described in the history of acupuncture. In pulse diagnosis, for example, the pulse of the spleen, lung and *san jiao* meridian is always found in the right wrist, whereas those of the gallbladder, kidney and liver are always analyzed in the left wrist. When one derives a diagnosis from the 28 pulse qualities, it can reveal a multitude of factors that can only be ascertained through the pulse. However, it cannot and does not reveal what *ryodoraku* has discovered.

Because *ryodoraku* evaluation utilizes measurements of the *yuan* points bilaterally, *ryodoraku* often reveals, especially in severe cases, meridians that exhibit a split in numerical value between left and right sides of the body. As *ryodoraku* measures the *yuan* points of both sides of the body, it is able to detect a diagnostic situation that was virtually unknown until *ryodoraku*'s invention. By utilizing the *Luo* point of the split meridian, a correction can be made in a split (left-to-right) meridian. *Luo* points, classically and traditionally, are used to link a coupled meridian, such as that of the lung/large intestine. In auriculotherapy, this correction between splits can be treated by the master oscillation point.

Evaluation of the musculotendinous meridians seen in orthopedic conditions is ascertained by the same procedure, but using the *tsing* (*jing-well*) points. *yuan* and *tsing* point evaluation are two entirely different examinations of two different meridian systems.

In 1982, I gave *ryodoraku* a more contemporary, descriptive term: "electro-meridian imaging" (EMI). This electronic method of evaluation is reliable; duplicable; easy to learn and employ; and extremely simple to explain to patients. It is changing the way acupuncture is being used in therapy and diagnostics worldwide.

With EMI available to acupuncturists and physicians through computer enhanced imaging, it has become state-of-the-art to allow a trained technician or practitioner to conduct this significant diagnosis in less than two minutes. The computer hardware requirement is an easy-to-use, simple design that requires a computer with a minimum processor speed of 486K, and a Windows operating system. It is attractive, professional and impressive to doctors and patients. Referrals for this electronic acupuncture examination can be numerous to overwhelming. The typical Western patient exhibits much more confidence in this contemporary, electronic, computer-enhanced style of examination than ancient pulse diagnosis. It allows patients to take home a copy of their graphic interpretation, and diagnostic criteria. In addition, a copy of involved meridians may be printed, or a copy of specific points the patient may use at home to accelerate clinical response can be reproduced.

Space limits the full explanation of this procedure. Should any reader of this column wish a descriptive EMI booklet that shows the examination procedure, along with the computer screenshots from the software, simply email your request to me. You may also send your request directly to my columnist page ([www.ChiroWeb.com/columnist/amaro](http://www.ChiroWeb.com/columnist/amaro)). You may also leave a comment or ask a question by clicking on the "Talk Back" button.

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