

# Landeskrankenhaus - Universitätsklinikum Graz

## Klinisches Institut für Medizinische und Chemische Labordiagnostik

Stv.Vorstand: Univ.-Prof. Dr. M. Truschnig-Wilders

A-8036 Graz, Auenbruggerplatz 15, Telefon: +43 (316) 385-3145, Fax: +43 (316) 385-3430

E-Mail: [martie.truschnig@klinikum-graz.at](mailto:martie.truschnig@klinikum-graz.at), Internet: <http://www.meduni-graz.at/labordiagnostik/>



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*Steiermärkische Krankenanstaltengesellschaft m.b.H.*

*Medizinische Universität Graz*

### **Translation of the original document CLINICAL STUDY**

### **Correspondence of Accurate Bioenergetics Measurements with „Global Diagnostics“ And Medical Diagnosis**

**Truschnig-Wilders M<sup>1</sup>, Viehweger R<sup>2</sup>, Heinrich R<sup>3</sup>**

1. Correspondence to: Martie Truschnig-Wilders, PhD; specialist in Immunology and Chemical and Medical Laboratory Diagnostics, University Hospital Graz, Auenbruggerplatz 15, 8036 Graz, Austria
2. Rainer Viehweger, MD; Specialist in Orthopedics, Lindenstr. 4a, 19230 Hagenow-Viez, Germany.
3. Ralf Heinrich, MD; Specialist in General Practice; Schlosstr. 26, 12163 Berlin, Germany

This article is a translation of the original study “Übereinstimmung von bioenergetischen Messungen mit “Global Diagnostis” und medizinischen Diagnosen“ conducted by Medical University of Graz, Clinical Institute for Medical and Chemical Laboratory Diagnostics, Auenbruggerplatz 15, 8036 Graz, Austria.

#### **Introduction:**

There are different methods to register the patient's condition. Conventional medicine mainly uses clinical examination of the body, laboratory parameters, imaging methods and functional diagnosing techniques and procedures such as ECG, EEG.

Alternative medicine uses similar parameters.

Furthermore, a wide range of measuring instruments exist which register the patient's energetic state. However, these measuring devices are widely subject to the examiner's mental influence.

In contrast, “Global Diagnostics” was developed as a measuring device which allows understanding in terms of physics. It works independently of the examiner and it can therefore independently measure the patient’s state.

**Goal of the Study:**

The goal of the study was to test the correspondence of common medical-diagnostic examination procedures (such as anamnesis, clinical examination and methods developed by medical-engineering) with the results of the “Global Diagnostics” device.

### Measuring Instrument “Global Diagnostics”

The measurement with “Global Diagnostics” is based on the fact that a living organism constantly oscillates in a wide frequency range.

“Global Diagnostics” stimulates many different biological structures with specific weak electrical impulses.

After the stimulation, the oscillation pattern with amplitude, phase and wave overtones of the biological structures is measured and registered.

“Global Diagnostics” also offers a therapy which is specially adjusted to the results of the preceding measurement and which can be used for therapeutic purposes.

The results of the measurements demonstrate an excellent reproducibility. Internal standard verification during two measurements usually shows differences of less than 1%.

“Global Diagnostics” consists of a measuring device with an external measuring sensor and a notebook with software to start and evaluate measurements.



Figure 1. The “Global Diagnostics” device can test the patient’s oscillation pattern in a frequency range up to 400 MHz. In addition, well-directed therapy-signals can be administered with great precision.

Figure 2. The external measurement sensor applies measurement impulses and afterwards registers the bioenergetic reaction pattern.



### Study Design:

In two independent surgeries in Germany, all patients with somatic diseases, overall 44 patients, were included into the study after the start date. Extensive anamnesis was carried out and all diagnostic findings were documented.

The patients were measured with the “Global Diagnostics” device.

All patient data was randomized and sent to a third doctor (first author).

A tabular record was made to analyze the correspondence of the classical medical diagnosis with the results of the “Global Diagnostics” device.

### Results:

In every patient, the “Global Diagnostics” listing and the classical-medical diagnosis showed one or more correspondences.

Some examples are:

**2006-05-30-61; Case 1;** Female, 68 years.

Strong pain in lumbar spine area, extending to legs.

MRI:

Spinal stenosis of cervical and lumbar spine;

medium grade degenerative lesions L4-S1;

“Global Diagnostics”:

Cervical spine-group C1 to C7, thoracic spine-group Th1-12, intervertebral disc Th4/Th5 and L3/L4.

**2006-07-71; Case 2;** Female, 49 years.

-Pain in shoulder area, hands, hips and left leg;

X-ray:

Spondylar osteophytes in C6/7 because of a benign spondylarthropathy;

“Global Diagnostics”:

C4; Th10;L1, intervertebral disc L4/L5, sciatic nerve left side

-Pollinosis, diagnosed by IgE-RAST

“Global Diagnostics”: Pulmonal mucosa and monocytes

**2006-06-26-67, Case 3;** Female, 33 years.  
Ulcerative colitis for 3 years, confirmed by coloscopy;  
“Global Diagnostics”: Transverse colon and monocytes.

**2006-06-26-67; Case 4;** Female, 51 years  
-Exocrine pancreatic insufficiency; “Global Diagnostics”: Pancreas.  
-Discomfort in Achilles tendon, right side;  
“Global Diagnostics”: talocalcaneonavicular joint, right side.  
-Milk and wheat allergy;  
“Global Diagnostics”: Cortex of suprarenal gland.  
-Lumbar spine syndrome;  
“Global Diagnostics”: sacro-iliac joint.  
-Gallbladder-discomfort with discoloured stool;  
“Global Diagnostics”: right hepatic lobe and hepatic lymph

**2006-04-11-37; Case 5;** Female, 57 years  
Fibromyalgia and rheumatoid arthritis, with methothrexat and corticosteroids therapy in the past;  
“Global Diagnostics”: Cartilage of shoulder joint, radio-ulnar joint, sacro-iliac joint; intervertebral disc L3/L4; Th9; cartilage of right hip joint; muscles were mentioned several times

**2006-05-22-59; Case 6;** Female, 38 years  
-Chronic relapsing infections of the urinary tract  
“Global Diagnostics”: Urethra, urachus both sides, urinary bladder, renal medulla  
-Elbow pain;  
“Global Diagnostics”: left humero-ulnar joint

**2006-03-87: Case 7;** Female, 81 years  
-Vertigo  
“Global Diagnostics”: Vestibular nerve  
-Eczema forehead;  
“Global Diagnostics”: Trigeminal Nerve

**2006-03-29-223; Case 8;** Female, 51 years  
-Lumbar spine syndrome;  
“Global Diagnostics”: Sacro-iliac joint, ilium  
-Hypertension  
“Global Diagnostics”: Juxtaglomerular apparatus  
-Stomach ache  
“Global Diagnostics“: Descending colon, intestinal lymph, internal oblique, rectus abdominis

**2006-04-20-136; Case 9;** Female, 82 years  
-Relapsing colds and cystitis;  
“Global Diagnostics”: urinary bladder, cervical lymphatic nodes; monocytes, lymphatic nodes in general  
-Epigastric pain  
“Global Diagnostics”: intestinal lymph, cardia, pancreatic lymph, pancreatic head, pancreatic duct, gallbladder, spleen

**2006-50-18-238; Case 10;** Female, 83 years

-Status after osteomyelitis of jaw

“Global Diagnostics”: Temporomandibular joint both sides, mandibular part of trigeminal nerve

**2006-05-04-233; Case 11;** Child, 8 years

-Whooping cough;

“Global Diagnostics”: pulmonary and bronchial mucosa

-Allergy to house-dust and animal hair;

“Global Diagnostics”: Glandular cortex

**2006-04-04-68; Case 12;** Male, 66 years

-Hip pain left side after doing sport;

“Global Diagnostics”: left lumbar lymphatic trunk

-Sinusitis;

“Global Diagnostics”: Frontal sinus, monocytes

-Status after Pharyngitis-tracheitis-bronchitis;

“Global Diagnostics”: Pharynx, pulmonal artery

**2006-05-03-148; Case 13;** Male, 78 years

-Lumbar spine syndrome; pseudoradicular pain extending to right inguinal area and knee joint

“Global Diagnostics”: lumbar lymphatic trunk, spinal dura mater

-Constipation;

“Global Diagnostics”: Descending colon

**2006-04-28-232; Case 14;** Male, 45 years

-Pain similar to arthritis;

“Global Diagnostics”: Sacro-iliac joint, C6, Th3, L1

-Pain in metatarsophalangeal joints of foot

“Global Diagnostics”: muscles of foot on left side, plantaris right side

-Common cold;

“Global Diagnostics”: retroauricular lymphatic nodes, lymphatic nodes general, tonsils, bronchial lymph, larynx

### **Conclusion:**

With “Global Diagnostics” it was possible to confirm all the main diagnosis made by classical-medical methods for each of the patients included in the study.

There was a convincing correspondence between the results of “Global Diagnostics” and the diagnosis obtained through conventional medicine.

As the examination with “Global Diagnostics” is done at rest and within ten minutes, it allows acquiring extensive information on diagnosis and / or therapy in a very gentle and fast way.

The result of this study is an encouragement to further investigations on a larger scale.

The hitherto unmentioned potential of this bioenergetic examination method is especially noteworthy: It can give indication to hidden or just beginning pathologic processes which can not yet be detected by methods of conventional medicine.

<b>Patient 06.03.2006- 19.05.2006</b>	<b>Diagnosis</b>	<b>GD</b>		<b>Diag. Agree- ment</b>	<b>Funct. Agree- ment</b>	<b>Connex to Main Disease</b>
2006-03-14-87 Case 7	Shoulder Pain right side	Shoulder left side	H71		Yes	Yes
	Vertigo	Vestibular nerve	O87	Yes		Yes
	Eczema Forehead	Trigeminal nerve	O69	Yes		Yes
2006-03-17-57	Restlessness	Cervical spine; Medulla Oblongata; Trigeminus Facialis	O87 O84 L61 O81		Yes	Yes
2006-03-17-58	Circulatory instability	Cor Medulla Obl.	O52 O49	Yes		Yes
006-03-16-218	Peritendinitis Left dorsal foot X-ray of foot without result	No.d Lymph.Popl. Sin.	O77	Yes		Yes
	ESR /CRP	Monocytes, microscopic slide	O34	Yes		Yes
	Stomach & intestinal problems	Ly. Pancreas; caudatus pancr.; Colon transv.	O78 L64 O75	Yes		Yes
2006-03-20-59	Scoliosis approx. 95°; Status after Spondylodesis	Truncus lumbalis  Lumbar spine	H47  H41	Yes, X-ray		
	Nausea	Ductus pancr.; Pancr. Imph; Lymph colon; Interst. lymph Dudodenum Oral mucosa	O77 O65 H85 H80 H77 H71	Yes		Yes
2006-03-27-222	Pain in left medial ankle	Cartilage of right Art. subtalaris	H53		Yes	Yes
2006-03-06-53	Pain right shoulder	Trapezius, right; Supinator, right	O63 H48	Yes		Yes
2006-03-23-221	Pain left shoulder	Left axillary plexus	O87	Yes		Yes
2006-03-27-107	Paresthesia right arm	Plexus axillaris right; Supinator right; Rhomboideus right	L41 H53 H67	Yes		Yes
2006-03-27-173	Lumbar spine syndr. r.; Sciatic scoliosis toward left side	Sacro-iliac joint left	O56	Yes		Yes
	Hypertension	Medulla of suprarenal gland	H45	Yes		

Patient 06.03.2006- 19.05.2006	Diagnosis	GD		Diag. Agree- ment	Funct. Agree- ment	Connex to Main Disease
2006-04-12- 228	Lumbar spine stenosis	Sciatic nerve	H76	Yes MRI		Yes
	Asthma	T3 (bronchial nerves)	H46		Yes	
2006-04-03- 68 Case 12	Hip pain Left side	Truncus lumbalis left; Art. Talocruralis left; Plantaris left	O43 H52 H48	Yes		Yes
	Sinusitis	Sinus frontalis; Monocytes	L46 O54	Yes		Yes
	Status after pharyngitis- tracheitis-bronchitis	Pharynx, Pulmonal artery	H74 O78	Yes		Yes
2006-03-29- 223 Case 8	Lumbar-spine syndrome	Sacro-iliac joint right; Os ileum right; Perineal muscles	O24 O30 H69	Yes		Yes
	Hypertension	Juxtaglomerular apparatus	O41	Yes		
	Stomach ache	Descending colon; Intestinal lymph; Internal oblique; Rectus abdominis	O46 H77 H76 H47	Yes		Yes
2006-04-19- 231	Whiplash injury Pain in right arm	C3; Th3; Shoulder joint right; Infraspinatus right; Trapezius right; Pronator quadr. right; Cartilage of shoulder joint right side	L69 H56 O14 H77 H69 H59 H34	Yes		Yes
2006-04-13- 229	Spinal syndrome Thoracolumbar area	C4; Thoracic spine; 61Nn. spinalis thoracale L1, Truncus lumbalis	H70 H78 H69 H43	Yes		Yes
2006-04-27- 10	Pain right ankle joint	Intervertebral disc L5- S1; S2-S5; Muscles of left foot	H83 H83 O63 H72		Yes	Yes
2006-04-20- 136 Case 9	Relapsing colds and cystitis	Urinary bladder; Superficial cervical lymph. nodes; Monocytes; Lymph. nodes general	O68 O57 O48 H	Yes		Yes
2006-04-19- 12	Cervical and lumbar pain syndrome	Intervertebral disc Th8-Th9; Th9; Sciatic nerve left; Lig. ileolumbale right; Trochanter major right;	H64 H39 H54 O44 L59	Yes		Yes
	Temporarily epigastric pain	Intestinal lymph; Cardia; Pancreatic lymph; Caput pancreas; Pancreatic duct; Urinary bladder; Spleen	O73 O72 O63 O30 H48 H39 O49	Yes		Yes



<b>Patient 06.03.2006- 19.05.2006</b>	<b>Diagnosis</b>	<b>GD</b>		<b>Diag. Agree- ment</b>	<b>Funct. Agree- ment</b>	<b>Connex to Main Disease</b>
2006-05-03-148 Case 13	Lumbar spine syndrome	Truncus lumbalis; Dura mater spinalis	O76 O67	Yes		Yes
	Constipation	Descending colon	O52	Yes		Yes
2006-04-28-232 Case 14	Joint pain	Sacro-iliac joint right; C6; Th3; L1	O58 L82 L52 O75	Yes		Yes
	Pain in metatarso-phalangeal joint foot	Muscles of left foot; Plantaris right	L56 H54	Yes		
	Common cold	Retroauricular lymph. Nodes; Lymph. Nodes general Tonsils; Bronchial lymph; Larynx	O61 O59 O40 L74 H68	Yes		Yes
2006-05-18-237	Lumbar-sacral pain syndrome	Sacro-iliac joint left	O47		Yes	Yes
	Asthma (Therapy with spray)	Carina of trachea; Bronchial mucosa	O75 O60	Yes		Yes
2006-15-11-236	Pain left knee	Quadriceps left; Peroneal nerve left	H51 H39		Yes	Yes
2006-05-04-233 Case 11	Whooping cough	Pulmonary mucosa; Bronchial mucosa;	O60 O37	Yes		Yes
	Allergy	Cortex of suprarenal gland left	O76	Yes		
2006-05-19-240	Pain in lumbar spine	Sacral nerve plexus	H63	Yes		Yes
2006-50-18-238 Case 10	Osteomyelitis of jawbone	Temporomandibular joint right & left; Mandibular part of trigeminal nerve	H41 O55 O47	Yes		Yes

<b>Patient Until 22.10.2006</b>	<b>Diagnosis</b>	<b>GD</b>		<b>Diag. Agreement</b>	<b>Funct. Agreement</b>	<b>Connex to Main Disease</b>
2006-05-30-61	Alterations of cervical & thoracic spine; Pain in lumbar spine & legs	Cervical spine group C1-C7; Thoracic spine group Th1-Th12; Intervertebral disc Th4-Th5; Th11; Intervertebral disc L3-L4	H47 L52 H75 H48 H40	Yes: X-Ray, MRI		Yes
2006-06-08-62	Pain left knee Lesion of meniscus left	Medial meniscus left	O40	Yes: MRI Effusion		Yes
2006-05-23-60	Allergy with breathing difficulties	Oral mucosa; Bronchial mucosa; Pulmonary mucosa; Pulmonary lymph; Monocytes; Cortex of suprarenal gland	O65 O37 H79 O67 O59 O68 H88	Yes: Pricktest		Yes
2006-04-21-45	Cervical-lumbar spine syndrome	Th1; Sacral nerve plexus; Sacro-iliac joint; left sciatic nerve	O41 O72 H45 H43	Yes: MRI: cervico-thoracic alterations		Yes
2006-05-12-41; Case 3	Ulcerative colitis	Transverse colon; Monocytes	O75 O59	Yes: Coloscopy		Yes
2006-05-19-58	Cervical spine complaints; left shoulder	Intervertebral disc C1-C2; Intervertebral disc Th2-Th3; Shoulder joint left	H66 H42 H60	Yes: MRI		Yes
2006-04-24-46	Cervical-lumbar spine syndrome	Intervertebral disc C7-Th1; L1	H69 O57	Yes: X-Ray		Yes
2006-04-27-48	Cervical-thoracic spine syndrome	C1; Thoracic spine group Th1-Th12	H44 H59		Yes	Yes
	Pain in knees	Popliteal lymph. Nodes left side	O59	Yes: effusion both knees		Yes
2006-07-07-71; Case 2	Pain in shoulder, finger, hip & left knee	C4; Th10; L1; Intervertebral disc L4-L5; Sciatic nerve left	H42 L83 O49 L70 O59	Yes: X-Ray		Yes
	Pollinosis	Pulmonary mucosa; monocytes	O79 O87	Yes: RAST		Yes

<b>Patient Until 22.10.2006</b>	<b>Diagnosis</b>	<b>GD</b>		<b>Diag. Agreement</b>	<b>Funct. Agreement</b>	<b>Connex to Main Disease</b>
2006-05-05-49	Stomatogingivitis; Cold; cough	Retroauricular lymph. Nodes; Epiglottis; Glosopharyngeal nerve; Pulmonary mucosa	H64 H49 H48 O87		Yes	
2006-05-16-57	Cough for months	Oral mucosa; Bronchial lymph; Pulmonary lymph; Pulmonary mucosa Monocytes	O29 O49 O76 O47 O87		Yes	Yes
2006-06-29-70	Severe relapsing influenzal infect	Tympanic membrane; Retroauricular lymph. Nodes; Superficial cervical lymph nodes; Pulmonary mucosa Monocytes	L48 L69 H74 O69 O71		Yes	Yes
	Allergy	Cortex of suprarenal gland	H75	Yes: Pricktest	Yes	Yes
2006-06-26-67 Case 4	Insufficiency of exocrine pancreas	Pancreas	O77	Yes: Lab. Results		Yes
	Achilles tendon right	Talocalcaneo-navicular joint	H77		Yes	Yes
	Allergy	Cortex of suprarenal gland	H79		Yes	Yes
	Lumbar spine syndrome	Sacro-iliac joint	H41		Yes	Yes
	Biliary problems with discoloured stool	Right hepatic lobe; Hepatic lymph	O73 H75		Yes	Yes
2006-06-26-69	Plastic surgery of face	Superficial cervical lymph. Nodes	O81		Yes	
2006-04-26-46	Nausea; Constipation Diarrhoea	Oral mucosa; Diaphragm; Pancreatic duct; Duodenum; Gastric lymph; Transverse colon; Gallbladder	H83 O83 O79 O79 H87 H86 H71		Yes	Yes
2006-05-12-9	Arrhythmia with atrial fibrillation	Cor	O48	Yes		Yes
	Post-shingles neuralgia right thigh	Lumbar nerve plexus	L89		Yes	Yes
	Left eye blind	Right macula	H45		Yes	

<b>Patient Until 22.10.2006</b>	<b>Diagnosis</b>	<b>GD</b>		<b>Diag. Agreement</b>	<b>Funct. Agreement</b>	<b>Connex to Main Disease</b>
2006-04-11-37 Case 5	Fibromyalgia with multiple painful joints and muscles	Cartilage of shoulder joint; Radio-ulnar joint; Sacro-iliac joint; Intervertebral disc L3-L4; Th9; Cartilage of right hip joint; Muscles were mentioned several times	O79  O58 H84 H74  H48 H39		Yes	Yes
2006-05-22-59 Case 6	Chronic relapsing infections of urinary tract	Urethra, Left urachus; Right urachus; Urinary bladder; Renal medulla	O62 O26 H78 O25 H61	Yes		Yes
	Elbow pain	Left humero-ulnar joint	O42		Yes	Yes
2006-08-22-77	Nausea Meteorism	Oral mucosa; Diaphragm; Intestinal Imph	O62 O49 H88		Yes	Yes