Title: WISDOMOS TECHNICAL & METHODOLOGICAL DEEP DIVE
Subtitle: Voice-Based Energetic Pattern Analysis (Practitioner Overview)
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Confidentiality: Educational use only · Not diagnostic

1) Purpose & Scope

This document describes the VoiceWise bioenergetic assessment pipeline for clinicians and researchers. It covers signal capture, feature extraction, signature comparison, scoring, model calibration, outputs, limitations, and clinical fit. Language is **educational** and **non-diagnostic** by design.

2) System Architecture (Pipeline)

Input → Processing → Matching → Scoring → Output

1. **Voice Capture (15 seconds)**
   • Single-speaker sample recorded via patient's device.
   • Guidance includes quiet room, consistent distance, and natural speech.
   • QC checks: clipping, SNR, duration, silence ratio.

2. **Spectral Decomposition**
   • Fast Fourier Transform (FFT) and related transforms convert waveform to frequency space.
   • Extracted features include: fundamental frequency, harmonics, formant regions, amplitude & amplitude-modulation features, phase relationships, spectral slope, jitter/shimmer proxies, bandpower ratios, and noise measures.

3. **Target Signature Matching**
   • The voice spectrum is compared against a curated library of **reference energetic signatures** associated with **146 physiological markers** (e.g., Brain, Circulation, Digestive Enzymes, Thyroid, Adrenals, pH balance, Neuroendocrine Cells, Neurotransmitters).
   • Library also includes functional systems and emotional/behavioral patterns used for educational mapping.
   • Matching uses spectral correlation and distance measures.

4. **Resonance & Deviation Scoring**
   • For each marker, compute a **Resonance Index** reflecting spectral similarity to the reference signature.
   • Compute **Deviation** from expected ranges; apply **domain-specific weighting** across eight energetic domains (see §3).
   • A probabilistic model integrates fidelity and deviation to yield per-marker scores.

5. **Normalization & Output**
   • Scores are normalized to **0–100% coherence** for readability.
   • Outputs are organized as **5 Pillars → 10 Body Systems → 30 Organs/marker clusters**, with educational context and suggested self-care avenues.
   • Practitioner PDF and Client PDF are generated from the same findings with different depth/reading levels.

3) Educational Mapping Domains

We map findings across **eight energetic domains** to contextualize patterns. These are **not physiological test results**; they are educational lenses:

Physical Domains	Description
Molecular (cellular)	Signal features mapped to cellular-scale interpretations.
Biomaterial (fluid)	Fluidic balance/flow (e.g., hydration, lymphatic themes).
Organ	Organ-level mapping based on spectral signatures.
Systemic	Higher-order systems (circulatory, respiratory, etc.).

Emotional/Behavioral Domains	Description
Intellectual	Thought patterns, cognitive load themes.
Emotional	Reactivity, affect regulation themes.
Behavioral	Habits, consistency, adherence patterns.
Spiritual	Purpose/connection themes, meaning-making.

Five Pillars used in reports: Oxygenation, Hydration, Mouth, Nutrition, Emotions.

4) Scoring Framework (Conceptual)

• **Resonance Index (RI):** correlation between sample spectrum and reference signature.
• **Deviation (D):** distance from typical patterns observed in calibration cohorts.
• **Domain Weights (W):** weights per domain (physical/emotional) used to integrate context.
• **Coherence Score:**

$$0–100$$

derived from f(RI, D, W) with calibration constants.
- **Quality Gates:** Samples failing QC (e.g., excessive noise, too short) trigger re-capture.

5) Outputs & Reports

- **Practitioner-Facing Report**: summary dashboard, pillar/system highlights, top differentials (by coherence and deviation), visuals, and technical notes.
- **Client-Facing Report**: plain-language overview, visuals, and educational suggestions aligned to observed patterns.
- **Bundle Options**: When paired with Iridology, the packet includes a case-study narrative and complimentary tongue observations.
- **Turnaround**: typically **24–48 hours** after a valid submission.

6) Model Development & Validation Approach

- **Signal Processing**: FFT-based spectral analysis and correlation measures aligned with approaches used in voice-biomarker literature in medical acoustics.
- **Statistical Modeling**: Classifier ensemble trained on reference voice-to-frequency datasets; outputs probabilistic strength for each marker's resonance.
- **Benchmarking**: Internal controls and **known-stress frequency trials** to test sensitivity to deliberate perturbations.
- **Calibration**: Ongoing tuning via practitioner feedback loops and population-level aggregation; drift monitoring and periodic re-scaling of normalization.
- **QC/QA**: automated artifact detection + human review spot-checks.

7) Clinical Alignment & Fit (Educational)

- **Non-invasive, rapid, repeatable** data capture supports **longitudinal** monitoring of **energetic coherence**.
- Extends voice-based research concepts by mapping **multivariate spectral features** to **bioenergetic functional domains** rather than diagnostic endpoints.
- Useful for **baseline mapping**, **progress discussions**, and **self-care planning** in wellness contexts.

8) Privacy, Security, and Consent

- Voice samples and outputs are handled via secure channels.
- Practitioner selects delivery emails; patients consent to share recordings for educational analysis.
- Data is used to improve calibration in de-identified/aggregated form when permitted.

9) Limitations & Appropriate Use

- Not a medical device. Not intended to diagnose, treat, cure, or prevent any disease.
- Sensitive to recording environment; poor capture reduces reliability (re-capture provided).

• Findings depend on the reference library and calibration cohorts; results should be interpreted within an educational wellness framework.

10) Suggested Clinical Workflow

1) **Order** VoiceWise (or Bundle).
2) **Capture**: patient records 15-sec voice; (Bundle) receives magnifier and iris photo guide.
3) **Review** practitioner summary; share client PDF.
4) **Discuss** patterns using pillars/systems; align with patient goals and self-care.
5) **Re-check** at 3–6 months for longitudinal comparison.

Appendix A: Marker Index (146 markers)

Organ/System markers and related themes used for educational mapping. This index is periodically updated.

Brain
Lymph
Heart
Liver
Lungs
Eyes
Circulation
Spleen
Arteries
Veins
Capillaries
Microcapillaries
Blood Cells – size of cell
Blood Cells – cell quantity
Bone Marrow
Clotting Factors – low
Clotting Factors – high
Larynx
Trachea
Mouth
Sinuses
Oxygen Transport Proteins
Diaphragm
Lung Surfactant
Carbon Dioxide Balance
Mouth Breathing During Sleep
Shallow Breathing
Oxygenation of Extremities
Respiratory Centers in the Brainstem
Esophagus

Stomach
Pancreas
Gallbladder
Small Intestines
Large Intestines
Gut Microbiome Balance
Appendix
Digestive Blood Flow
Digestive Lymph Flow
Nutritional Absorption
Salivary Breakdown Process
Digestive Enzymes
Digestive Neurons
Digestive Neuron Serotonin
Digestive Neuron GABA
Digestive Neuron Cholecystokinin (CCK)
Digestive Neuron Gastrin
Digestive Neuron Substance P (Neurokinin-1)
Rectum
Anus
Pineal Gland
Pituitary Gland
Sympathetic Nervous System
Parasympathetic Nervous System
Brain Neuron Dopamine
Brain Neuron GABA
Brain Neuron Glutamate
Brain Neuron Norepinephrine
Synapses
Cerebrum
Cerebellum
Brainstem
Frontal Lobe
Temporal Lobe
Occipital Lobe
Blood Flow & Vasculature of the Brain
Brain Lymphatics
Emotional Processing & Regulation
Sleep & Wakefulness
Hormonal Secretion
Skeleton
Cranium
Spine
Joints
Cartilage
Tendons
Ligaments
Fascia

Bursae (Fluid Sacs)
Muscle Fiber Strength
Muscle Fiber Quality & Longevity
Muscle Movement
Muscle Strength
Muscle Posture & Stability
Muscles – organ protection
Bone Calcium Balance
Bone Phosphorus Balance
Bone Collagen Balance
Bone Elements
Red Bone Marrow
Yellow Bone Marrow
Pineal Center
Thyroid Gland
Parathyroid Gland
Thymus Gland
Insulin Production (Pancreas)
Glucagon Production (Pancreas)
Uterus
Ovaries
Testicles
Prostate
Kidneys
Breast
Neuroendocrine Cells
Endocrine Cells
Hormone Transport Proteins
Hormone Balance
Skin Health
Hair Health
Nail Health
Sebaceous Glands (skin & hair)
Sweat Glands
Vitamin D Synthesis
Skin Immune Defense & Barrier
Thermoregulation
Wound Healing Capacity
Collagen
Adrenals
Inguinal Lymph
Lymph Nodes
Lymph Fluid
Lymph Tissues
Lymph Ducts
Lymph Capillaries
Lymph Valves
Lymph Vessels

Tonsils
Physical Organ pH Regulation
Emotional Organ pH Regulation
Impact of Acidic Substances
Acid-Base Balance
pH Control in Body Fluids
Acidosis
Alkalosis
Blood pH
Heavy Metal Toxicity
Minerals
Vitamin D
Chest
Knees
Basal Ganglia
Ventricular System
Neuroplasticity
Bones
Adenoids
Endothelial Cells (vessel lining)

Note: The index above is grouped and harmonized for reporting. Naming and grouping may evolve as calibration improves.

Appendix B: Domain & Pillar Reference

- **Eight Domains:** Molecular, Biomaterial, Organ, Systemic, Intellectual, Emotional, Behavioral, Spiritual.
- **Five Pillars:** Oxygenation, Hydration, Mouth, Nutrition, Emotions.
- **Ten Systems (reporting level):** circulatory, digestive, nervous, immune, endocrine, respiratory, musculoskeletal, integumentary, lymphatic, excretory.

Appendix C: Quality & Re-Capture Guidance

- **Voice:** avoid fans/AC noise; speak naturally; consistent distance; 15–20 seconds.
- **Iris (Bundle):** use provided magnifier; natural light; flash off; follow left/right sequence; submit highest-clarity images.
- **Re-capture Policy:** If QC fails, we'll request a new sample at no additional charge.

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