dorsaVi MOVEMENT SENSORS

dorsaVi MUSCLE ACTIVITY SENSORS

dorsaVi™ PROVIDES OBJECTIVE DATA TO ACCURATELY ANALYZE MOVEMENT AND MUSCLE ACTIVITY.

ViMove™ & ViPerform™

TWO PROGRAMS.

ONE BIG

GAME CHANGER

IN ASSESSING

MOVEMENT

AND MUSCLE

ACTIVITY.

The dorsaVi™ Movement Suite consists of two software programs. ViMove™ focuses on low back management with live assessments, up to 24 hour monitoring, and biofeedback. Additionally, ViMove™ offers dorsaVi’s™ Movement Challenges – a program that provides users with visual feedback related to their movement in real time. ViPerform™ is designed for athletes and sports medicine professionals and includes modules to objectively assess running, knees, hamstrings, and core function.
ViMove is a tool to objectively and accurately measure movement and muscle activity, help assess treatment options, and guide a safe recovery.

**LOW BACK**

**Tests**
Lumbar Lordosis, Flexion, Extension, Lateral Flexion, Pelvic Tilt, Sitting Posture, Up to 24 Hour Monitoring Out of the Clinic

**What’s Measured**
Range of Movement, Postural Angles, Muscle Activity

**MOVEMENT CHALLENGES**

**Tests**
Pelvic Tilt, Stability and Balance, Range and Speed

**What’s Measured**
Movement Challenges is a training module that provides users with visual feedback related to their movement in real time. It can be used to retrain movement.

**WHAT’S MEASURED**

Movement Challenges is a training module that provides users with visual feedback related to their movement in real time. It can be used to retrain movement.
MOVEMENT CHALLENGES: RETRAIN YOUR PATIENT'S MOVEMENT.

1. PELVIC TILT MOVEMENT CHALLENGE
2. STABILITY & BALANCE MOVEMENT CHALLENGE
3. RANGE & SPEED MOVEMENT CHALLENGE
WITH AN EASY-TO-READ FORMAT, ANALYZING COMPLEX MOVEMENT IS NO LONGER A PAIN IN THE BACK.

**SAMPLE ViMove™ LOW BACK ANALYTICS REPORTS**

**Flexion**

<table>
<thead>
<tr>
<th>Maximum ROM</th>
<th>Normative Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumbar 45°</td>
<td>Lumbar 43° - 53°</td>
</tr>
<tr>
<td>Trunk 94°</td>
<td></td>
</tr>
<tr>
<td>Pelvis 49°</td>
<td></td>
</tr>
</tbody>
</table>

**Pain Alert Recorded Comparison**

- ✓ No Pain Alert Recorded (Current)
- ✓ No Pain Alert Recorded (Previous)

**Assessment: Flexion Alerts**

- No Flexion Alerts

**Movement Pattern**

- Lumbar ✓
- Trunk ✓
- Pelvis ✓
- EMG ✓

**Lordosis**

- Patient's Lumbar Lordosis: -38°
- Normative Range: -25° to -39°

**Assessment: Lordosis Alerts**

- ✓ No Lordosis Alert

*Lordosis refers to the curvature of the spine. A lower value (e.g., -50°) indicates a more extended lumbar spine. A higher value (e.g., 19°) indicates a flatter lumbar spine.*
5 KEY ASSESSMENT MODULES CAN BE TAILORED TO INDIVIDUAL SPORTS.

**RUNNING**
- Jog, Run, Sprint, Acceleration/Deceleration, Distance Run
- **WHAT'S MEASURED**
  - Symmetry of Left and Right Leg Ground Reaction Force (GRF), Average Ground Reaction Force (L&R Leg), Average Initial Peak Acceleration (L&R Leg), Average Ground Contact Time (L&R Leg), Average Steps Per Minute, Total Distance, Average Speed, Time, Outdoor Assessment for Up to 24 Hours

**KNEE**
- Single Leg Squat, Double Leg Squat, Single Leg Hop, Single Leg Box Drop, Double Leg Box Drop
- **WHAT'S MEASURED**
  - Tibial Inclination, Valgus and Varus Range of Movement, Valgus and Varus Speed

**FUNCTIONAL**
- Hurdle Step, Inline Lunge, Overhead Squat, Push-Up, Bird Dog, Plank Tests, Flexion, Extension, Rotation
- **WHAT'S MEASURED**
  - Range of Movement, Deviation from Start Position

**HAMSTRING**
- Active and Passive Straight Leg Raise
- **WHAT'S MEASURED**
  - Symmetry of Range and Speed, Active and Passive Range of Movement, Speed of Movement

**ATHLETIC MOVEMENT INDEX**
- Plank, Side Plank, Squat, Single Leg Squat, Single Leg Hop, Single Leg Hop Plant, Ankle Lunge
- **WHAT'S MEASURED**
  - Range of Movement, Symmetry, Balance, Time
THE MECHANICS OF MOVEMENT ARE INFINITELY COMPLEX.
NOW, ANALYZING THE DATA IS NOT.
ASSESS HIGH-RISK MOVEMENTS WITH HARD DATA, NOT HUNCHES.

dorsaVi™ SENSORS SEND INFORMATION WIRELESSLY TO SOFTWARE ON YOUR COMPUTER IN REAL-TIME.

dorsaVi™ SENSORS ARE SYNCED WITH HD VIDEO TO PRODUCE REAL-TIME OBJECTIVE DATA.
MOVEMENT SUITE

To learn more visit dorsaVi.com.