GaitON | by auptimo

A tool for motion analysis
GaitON is used by clinicians to conduct a motion analysis.
GaitON works in 3 easy steps...

01 CAPTURE

The motion of the patient is captured using cameras

02 ANALYSE

The clinician uses inbuilt protocols in GaitON software to analyse the captured motion.

03 GENERATE REPORT

GaitON exports the analysis results to well-organised & print-ready reports
CLINICAL GAIT & POSTURE ANALYSIS

GaitON has reference protocols that helps a clinician analyze the gait and posture of a patient.
CLINICAL GAIT ANALYSIS

The Gait Analysis protocol is based on the model of J. Perry (RLA Medical Center, California)

Complete assessment of pelvis, hip, knee, foot and ankle joint motion during the gait cycle.
CLINICAL GAIT ANALYSIS: REPORT

KINEMATIC DATA

[01] Inbuilt reference values for an accurate diagnosis

INITIAL CONTACT - LATERAL VIEW

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Right</th>
<th>Reference Value</th>
<th>Left</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ankle Angle&lt;sup&gt;a&lt;/sup&gt;</td>
<td>89.9°</td>
<td>60° to 95°</td>
<td>96.1°</td>
</tr>
<tr>
<td>Knee Angle&lt;sup&gt;b&lt;/sup&gt;</td>
<td>174.9°</td>
<td>168° to 178°</td>
<td>169.2°</td>
</tr>
<tr>
<td>Hip Angle&lt;sup&gt;c&lt;/sup&gt;</td>
<td>(+) 23.0°</td>
<td>(+)20° to (+)27°</td>
<td>(+) 28.2°</td>
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LOADING RESPONSE - LATERAL VIEW

<table>
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<th>Right</th>
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<th>Left</th>
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<tbody>
<tr>
<td>Ankle Angle&lt;sup&gt;a&lt;/sup&gt;</td>
<td>94.8°</td>
<td>90° to 96°</td>
<td>91.1°</td>
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<tr>
<td>Knee Angle&lt;sup&gt;b&lt;/sup&gt;</td>
<td>158.6°</td>
<td>156° to 165°</td>
<td>155.6°</td>
</tr>
<tr>
<td>Hip Angle&lt;sup&gt;c&lt;/sup&gt;</td>
<td>(+) 18.8°</td>
<td>(+)19° to (+)26°</td>
<td>(+) 22.2°</td>
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MID STANCE - LATERAL VIEW

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<th>Reference Value</th>
<th>Left</th>
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</thead>
<tbody>
<tr>
<td>Ankle Angle&lt;sup&gt;a&lt;/sup&gt;</td>
<td>88.8°</td>
<td>78° to 86°</td>
<td>85.2°</td>
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<tr>
<td>Knee Angle&lt;sup&gt;b&lt;/sup&gt;</td>
<td>172.0°</td>
<td>168° to 177°</td>
<td>165.9°</td>
</tr>
<tr>
<td>Hip Angle&lt;sup&gt;c&lt;/sup&gt;</td>
<td>(+) 1.8°</td>
<td>0° to (+)16°</td>
<td>(+) 2.1°</td>
</tr>
</tbody>
</table>

[02] Comparison between left & right extremity gait

[03] Monitoring patient recovery using kinematic graphs
Assessment of various parameters like forward head posture, foot eversion, Q-angle, shoulder drop etc.

POSTURE ANALYSIS

The Posture Analysis protocol analyses the standing posture of the patient to identify key postural imbalances.

TIME PER ANALYSIS

5 MINUTES

VIEWS ANALYZED

ANTERIOR, POSTERIOR, LATERAL
POSTURE ANALYSIS: REPORT

[01] Compare left & right extremity posture

[02] Inbuilt reference values for an accurate diagnosis

[03] Plumb line analysis
SPORTS SPECIFIC ANALYSIS

GaitON has reference protocols that helps a clinician detect biomechanical faults in a patient that often lead to pain/injury.

running gait analysis
golf swing analysis
tennis serve analysis
Complete assessment of pelvis, hip, knee, foot and ankle joint motion during the gait cycle.

The Running Gait Analysis protocol is based on the directives of UW Health Sports Medicine Clinic, USA.

SURFACE
TREADMILL

VIEWS ANALYZED
ANTERIOR, POSTERIOR, LATERAL
RUNNING GAIT ANALYSIS: REPORT

KINEMATIC DATA

**LATERAL VIEW**

<table>
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<tr>
<th>Parameter</th>
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<th>Left</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>Initial Contact</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knee Angle</td>
<td>159.9°</td>
<td>169.1°</td>
<td>&lt;160</td>
</tr>
<tr>
<td>Mid Stance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knee Angle</td>
<td>137.4°</td>
<td>143.2°</td>
<td>&lt;140</td>
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<tr>
<td>Knee-Toe Alignment</td>
<td>(+) 3.5°</td>
<td>(+) 2.1°</td>
<td>0°</td>
</tr>
<tr>
<td>Toe Off</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ankle Plantarflexion</td>
<td>126.9°</td>
<td>107.2°</td>
<td>110° to 1</td>
</tr>
<tr>
<td>Hip Extension</td>
<td>(-) 16.9°</td>
<td>(-) 25.6°</td>
<td>(-16° to 1</td>
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</table>

**POSTERIOR VIEW**

<table>
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<tr>
<th>Parameter</th>
<th>Right</th>
<th>Left</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>Mid Stance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear Foot Angle</td>
<td>(+) 26.1°</td>
<td>(+) 13.0°</td>
<td>Neutral</td>
</tr>
<tr>
<td>Pelvic Drop</td>
<td>(+) 7.2°</td>
<td>(+) 8.0°</td>
<td>&lt;(+5° for</td>
</tr>
</tbody>
</table>
| Trunk Side Bend      | (+) 7.0°| (+) 8.2°| <5° from  |}

[01] Inbuilt reference values for an accurate diagnosis

[02] Comparison between left & right extremity gait
TENNIS SERVE ANALYSIS

The tennis serve analysis protocol is based on the directives of University of Kentucky, USA

Assess the serve biomechanics & identify the musculoskeletal problems behind biomechanical faults
OTHER PROTOCOLS: TENNIS SERVE ANALYSIS

[01] Assessment of serve biomechanics

[02] Identification of musculoskeletal problems behind biomechanical faults
GOLF SWING ANALYSIS

The golf swing analysis protocol is based on the directives of Titleist Performance Institute (USA).

Complete assessment of swing characteristics present in the golf swing of the golfer.
OTHER PROTOCOLS: GOLF SWING ANALYSIS

[01] Assessment of swing mechanics

[02] Identification of musculoskeletal problems behind biomechanical faults
Meet the GaitON family!
Provide a world-class treatment experience to your patients.

GaitON is also available on a monthly basis. Try it to feel the difference in the patient experience at your center.
TOP REFERENCES
Gait Analysis . Running Analysis

Delhi Foot
ORTHOPEDIC EXCELLENCE IN FOOT CARE
Triton Hospital, Delhi

SETUP

- 4 Digital Cameras
- Treadmill
- GaitON software
GaitON’s medical validity has been proven in a research conducted with the doctors at Indian Spinal Injuries Center (ISIC), Delhi.

The system was also presented at the Central Scientific Instruments Organization, Chandigarh (CSIO-CSIR).
For a free demo of GaitON reach out to us at:

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