



A NOVEL APPROACH TO NMSK REHAB AND HUMAN PERFORMANCE

“Over 35% of healthcare and over 75% of the human performance field is human movement based (NMSK). Yet as practitioners and movement experts, we have little to no tools to accurately, objectively and efficiently analyze dynamic human movement”

Dr. Ryan Comeau, CEO of Kinetisense



MOVEMENT NEUROLOGY

- ✧ | **The human body moves in 3 planes of motion**
- ✧ | **Over 95% of human movement is driven by the subconscious CNS**
- ✧ | **Human movement is dynamic, requiring a precise neurological activation, leading to efferent and afferent modulation of the neuromusculoskeletal system**
- ✧ | **This neurophysiological “loop” myelinates “planar activation” and “planar sequencing”**
- ✧ | **Factors such as myelination, anthropometrics, previous injury, pain, and joint restriction are contributors to “planar plasticity” and “planar dominance”**
- ✧ | **“Planar dominance” leads to the increase in compensation, leading to the potential of increase risk of injury, and affecting human movement performance**

STRATEGY

-  Assess 3D (“triplanar”) multi joint and multisegmental movement patterns
-  Designate the patient/client based on age, gender, anthropometric measurement, activity type, sport type, sport level etc
-  Immediately compare to a robust data set
-  Score the individual based on this data set and peer reviewed research findings
-  Map the joints that require stability and mobility from a “triplanar” neuromusculoskeletal standpoint, what we call “FUNCTIONAL PLANAR MAPPING”
-  Through advanced AI, deliver automated corrective strategies specific to the individual based on the specific “triplanar” compensatory patterns

SOLUTION

Kinetisense is an advanced markerless clinical grade human movement system

Over 30 modules that efficiently and objectively assess 3 dimensional human movement with the ability to create custom workflows

Immediate data set comparison providing continuum based scoring

Functional Planar Mapping (FPM) of the joints that require mobility and stability, by plane

Automated AI driven corrective strategies generated that can be delivered immediately to the patient/client through the Kinetisense “end-user” application





FUNCTIONAL PLANAR MAPPING

Efficient and objective 3 dimensional analysis in ¼ of the time

Portability in the clinical and human performance location

Can be performed by support staff

Immediate mapping of the joints of compensation from a neurophysiological standpoint

Creation of AI driven corrective strategies specific to the individual

Provides a “human movement compass” leading to specificity in rehab and human performance protocols

Baseline healthy individuals for insights to return to ADL and sport

Identifies trends in human movement improvement and regression for the individual



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