

mskalign[®] SOLUTION: A Large AI-driven Systematic Analysis and Treatment for Musculoskeletal Disorder

Principal Investigator: Dr Teng Zhang

Technology

mskalign[®] is an AI-driven, end-to-end spine management solution integrating an advanced multi-modality solution centre and specialized large generative models. Core components include:

- mskalign[®] PACS/nursebot,
- mskalign[®] wukong workbench,
- mskalign[®] AlignPro Expert Studio, and
- mskalign[®] intelligent wearable device.

Holding Class I/II NMPA medical device certifications, the solution ensures scalable, intelligent healthcare.

Key Advantages

Efficiency: The clinical efficiency is improved by **99%**.

Effectiveness: **92%** of patients show significant treatment outcomes.

Compliance: Patient compliance is improved by an average of **85%**.

Cost-Efficiency: The total treatment cost is reduced by **60%**.



Stage of Development

- Complete R&D and regulation approval
- Large-scale commercialization is underway

Opportunities

Intelligent Capabilities: Empower quantitative analysis and follow-ups with intelligent technologies and devices.

Intelligent Services: Provide online and offline services to help patients cope with anxiety and improve the outcome.

Intelligent Management: A highly reliable, secure, and fully functional system for longitudinal management.

Intellectual Property

US Patent no.: US 12,056,874.18/834.607

CN Patent no.: 202080046794.9, 202380019538.4

HK Patent no.: 332020019506.5, 2020009975.4, 32021034473.7, 62024098418.2, 32024092909.3, 32024090353.6

PCT Patent no.: PCT/CN2020/098157, PCT/CN2023/074042, PCT/CN2024/100127

 : tgzhang@hku.hk



**HKU
Med**

**LKS Faculty of Medicine
Technology Transfer Unit
香港大學李嘉誠醫學院技術轉移部**