SpineCAMP™ Chronicles

SPINECAMP™
Actionable Insights

Regulatory Status
SpineCAMP is US FDA 510(k) cleared (K231668) for clinical use in the USA. SpineCAMP is not available for clinical use outside the USA.

Issue #1, Q2 2024

Initial SpineCAMP User Group Meeting Held in Houston

Medical Metrics welcomed an esteemed group of spinal surgeons to Houston on March 1st for our first SpineCAMP User Group Meeting. Drs. **John DeVine** (Augusta GA), **Jeffrey Moore** (Oklahoma City OK), **Chris Chaput** (San Antonio TX) and **Pierce Nunley** (Shreveport LA) joined the Medical Metrics team for an engaging discussion regarding their experience using the platform. The goal of the meeting was to better understand the impact of SpineCAMP on patient care from a clinical perspective, and opportunities to continue to evolve and improve the product.

Key topics included current methods for radiographic assessment of spinal alignment and stability, static vs. dynamic imaging, and future trends related to enabling technology and imaging informatics. The advisors shared enthusiasm for the current utility of SpineCAMP as a clinical decision support tool, and expressed excitement regarding the opportunity to develop and standardize advanced metrics with the potential to inform a better understanding of spinal health.

SpineCAMP by the Numbers

- # of studies analyzed to date: **8,500**
- # of clinicians with access to the platform **25**
- Universities with access to SpineCAMP: **4**
- Facilities in the approval queue: **30**

One recurring theme from the meeting was how SpineCAMP impacts perceived value of plain-film radiography. The level of detail that can be gleaned from stabilized imaging combined with custom reporting capabilities offer the potential to improve assessment of subtle instability and pseudoarthrosis. "I don't look at x-rays in the same way now that I have SpineCAMP!"

Group Advisory Dinner

Email the Editor HERE!

The Value of Actionable Insights

SpineCAMP is designed to deliver **enhanced visualizations** and **precise, objective** X-ray measurements directly into the clinical workflow. But **what is the value associated with this information?** How does it fit into development of a diagnostic and therapeutic plan?

Actionable Insights produced by SpineCAMP will **flag and highlight** findings that are **out of normal limits**, with a citation to the peer-reviewed literature. Some examples:

- **Listhesis Grade** according to Meyerding Classification
- **PI-LL mismatch**
- **Intervertebral Translation and/or Rotation**

SPINECAMP™

Sample Report

Patient:
Referring Physician:
Study Instance: 1.2.840.114350.2.246.2.798268.2.891823962.1
Study Time: 01-Jun-2023 12:45:46
Analysis Time: 05-Dec-2023 12:46:56 (UTC-06:00)
Software Version: 1.1
Analysis: Lumbar Spine Neutral Lateral

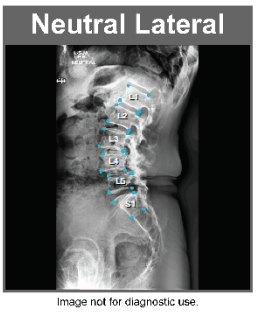


Image not for diagnostic use.

Intervertebral Metrics

Level	Disc Angle (deg)	Avg Disc Height (%)	Sagittal Plane Offset (%)
L1-L2	7.1	19.5	4.8
L2-L3	13.2	23.4	6.0
L3-L4	11.2	21.5	-14.3
L4-L5	4.1	16.9	-26.5
L5-S1	14.3	34.1	-1.0

L1-S1 Lordosis 54.5°

The sagittal plane offset at L4-L5 >25% and is consistent with a Grade II anterolisthesis [Meyerding, JBJS, 1941]

Actionable Insights reporting is designed to support efficient prior-authorization

Check out SpineCAMP on YouTube!

Click the links below to view the videos

Introduction to SpineCAMP

NASS Ask the Experts: Spinal Instability

Lumbar Flexion-Extension Protocol

SpineCAMP Demonstration

Publications of Interest:

Click the links below to view the publications

Spine, Published Ahead of Print:

Reijmer J, de Jong L, Kempen D, Arts M, van Susante J: Clinical Utility of An Intervertebral Motion Metric for Deciding on the Addition of Instrumented Fusion in Degenerative Spondylolisthesis

Research Articles in Pre-Print:

Hipp J, Reitman C, Chaput C, Buser Z, Grieco T: The challenge of diagnosing lumbar segmental instability

Hipp J, Mikhael M, Reitman C, Buser Z, Patel V, Chaput C, Ghiselli G, DeVine J, Berven S, Nunley P, Grieco T: Strain based fusion assessment

Upcoming Conferences:

IMAST: San Diego, Apr 10-13, 2024

LSRS: Chicago, May 1-3, 2024

State of Spine Think Tank: Cabo, June 20-22

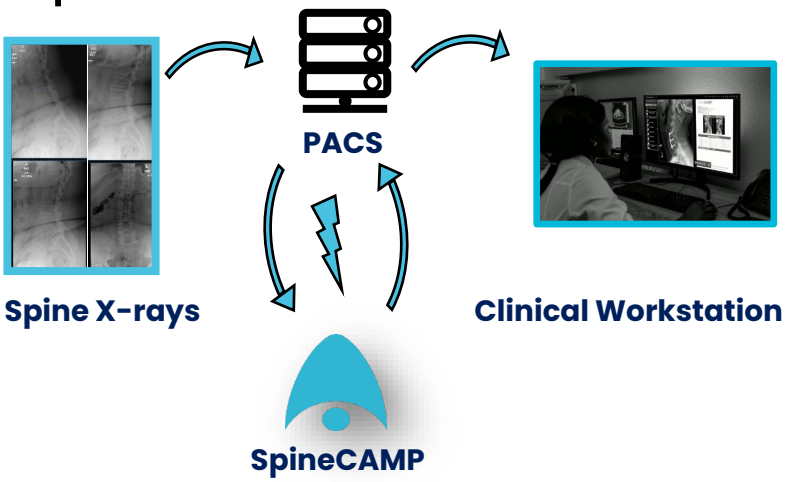
Clearance & Indications for Use

Clearance: SpineCAMP™ is cleared as a Software as a Medical Device (SaMD) under K231668

Indications for Use: SpineCAMP is a fully-automated software that analyzes X-ray images of the spine to produce reports that contain static and/or motion metrics. SpineCAMP™ can be used to obtain metrics from sagittal plane radiographs of the lumbar and/or cervical spine and it can be used to visualize intervertebral motion via an image registration method referred to as "stabilization." The radiographic metrics can be used to characterize and assess spinal health in accordance with established guidance. For example, common clinical uses include assessing spinal stability, alignment, degeneration, fusion, motion preservation, and implant performance. The metrics produced by SpineCAMP™ are intended to be used to support qualified and licensed professional healthcare practitioners in clinical decision-making for skeletally mature patients of age 18 and above.

Other: SpineCAMP is not available for clinical use outside the United States.

SpineCAMP Workflow



Workflow Steps

- X-ray images are pushed from PACS for analysis by SpineCAMP's AI engine
- The enhanced imaging and reports are returned in line with original imaging, and are viewable with a standard DICOM viewer
- Designed to be secure, seamless and integrated to standard workflows!

Interested in a Demo?

Have questions or want to trial the software?

We'll connect you directly with our product experts to schedule a demo and discuss our integration program.

Contact Us