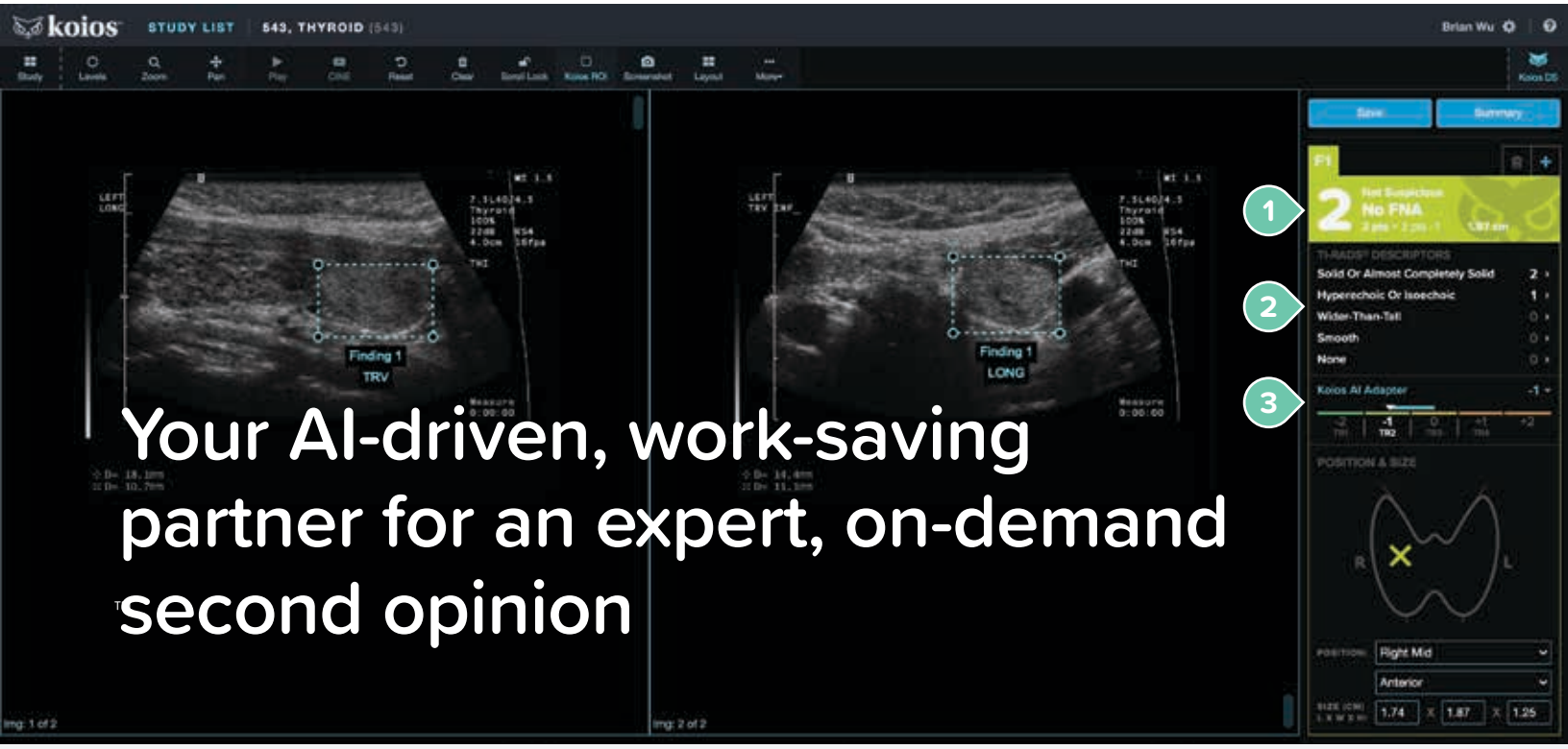
Koios DS™ Thyroid

The first and only patented, proprietary, clinical decision support (DS) software using AI and machine learning to help radiologists analyze ultrasound images. Clinically proven to improve patient outcomes and streamline workflow.

- ✓ Automates nodule descriptors
- ✓ Increases diagnostic accuracy
- ✓ Cuts reading and reporting time
- ✓ FDA cleared



Smart Ultrasound®

1 Greater accuracy and confidence
System-generated categorical output aligning to either TI-RADS or ATA guidelines

2 Automated diagnostic descriptors
Machine vision auto-populates nodule descriptors to save, export and/or override

3 Koios AI Adapter
AI assesses risk independently of descriptors and offers a diagnostic score adjustment

Improved patient experience
Earlier detection, faster treatment and shown to reduce benign FNA biopsies by 23%

Secure IT deployment
Premise-based web application sits behind your firewall – no PHI leaves your network

Makes nice with your technology
Connects with all major PACS and exports to Powerscribe (other reporting systems soon)

Koios Engine

>350,000
training images sourced from over 20 institutions around the world

>17,900
unique features analyzed per physician-selected nodule

≤2
seconds to auto-populate a complete, editable report

Research-proven.

Study with 15 readers and 650 retrospective cases

Clinically proven to offer statistically significant improvement in physician accuracy – as measured by AUC (area under the receiver operating characteristic curve) – while also reducing both inter- and intra-operator variability.

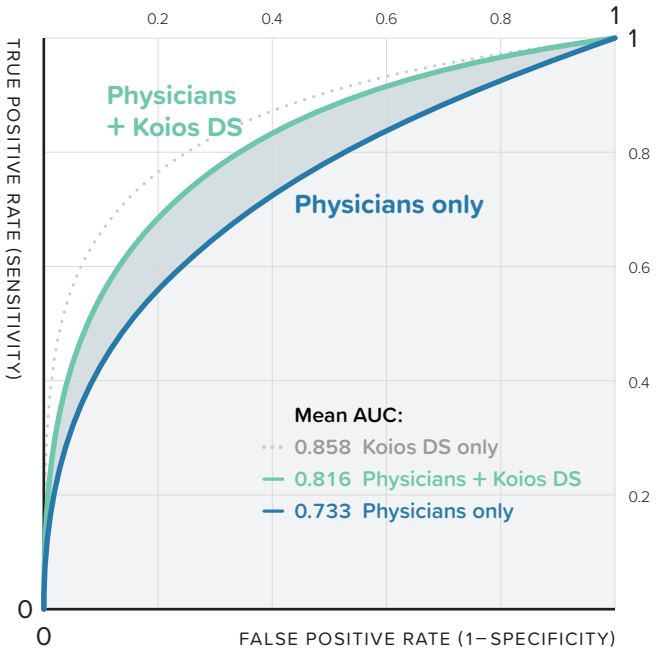
Methodology

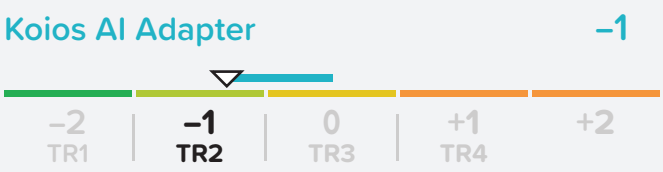
- 15 physicians (11 radiologists + 4 endocrinologists)
- 9 physicians had >20 years of experience; 6 had <15 years
- 650 cases, randomized and interpreted twice by each reader
- First read without, second read with Koios DS
- 4-week "washout" period between rounds
- All cases pathology-proven or a minimum of 1-year follow-up

Physicians using Koios DS Thyroid . . .

- Significantly improved diagnostic performance: sensitivity up 14.2% and specificity up 37.4%
- Decreased interpretation time by 24%
- Reduced reader variability by 54%

Data on file at Koios Medical. Available upon request.



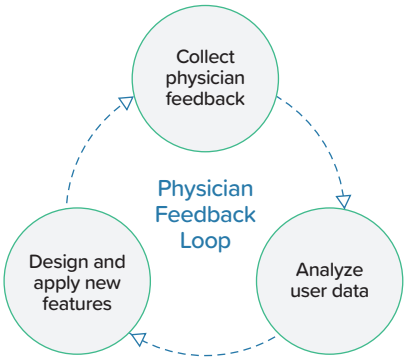


An AI Thumb on the Scale

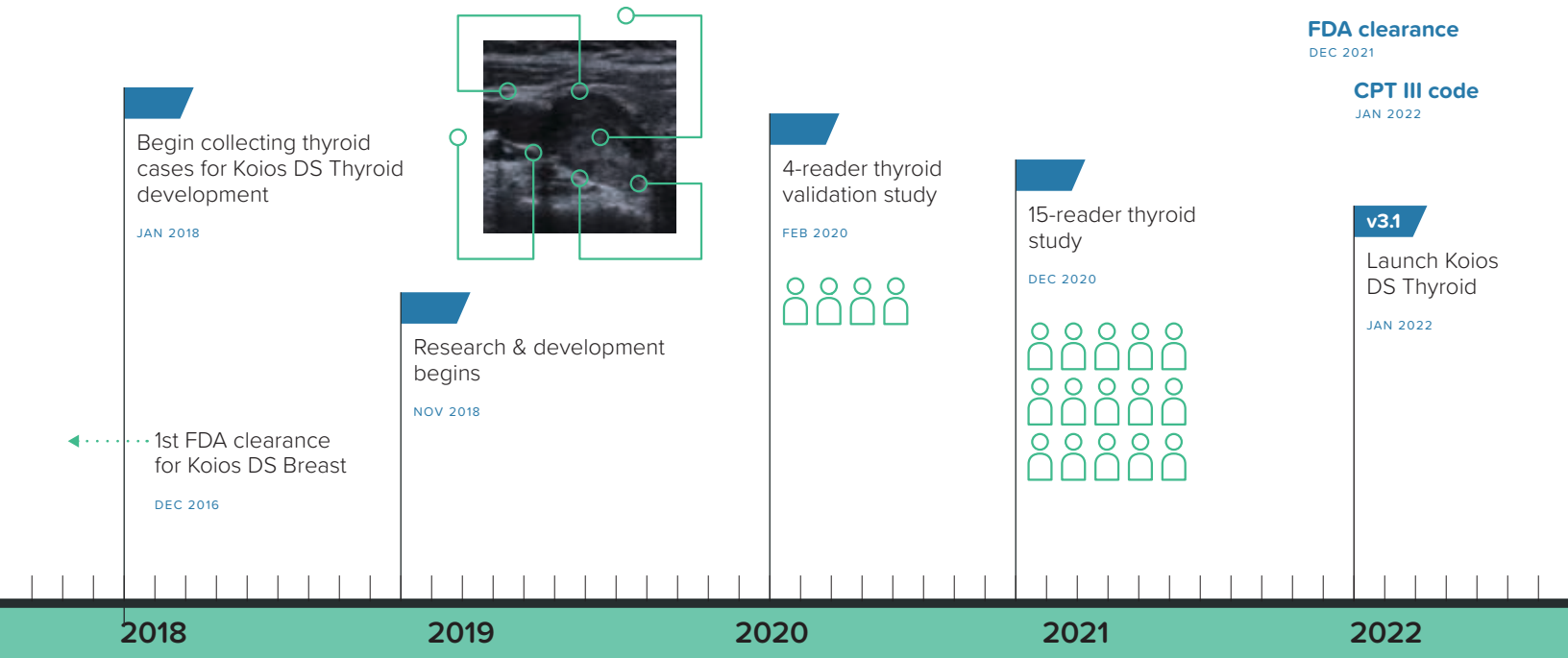
Koios DS Thyroid assesses the risk of nodule malignancy and then suggests the Koios AI Adapter — an adjustment of the descriptor-based score between –2 and +2 points. This may result in a different TI-RADS or ATA classification.

Always innovating.

Listen. Analyze. Design. Repeat.



We continuously test, measure, and improve Koios DS™ to deliver – with every release – what physicians value: technology, design and features that improve their quality of care and productivity. We learn by asking and listening.



Less Clerical, More Clinical®

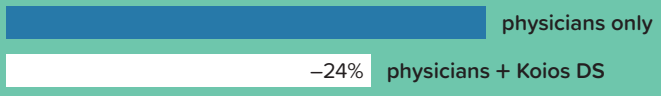
Workflow with less work and more flow

Koios DS™ enables an automated workflow that was previously unimaginable. We help fight not only cancer, but also physician fatigue, stress and burnout.

We ♥ automation

Save time and avoid errors. Koios DS and its seamless integration eliminate manual data entry and the mistakes that go along with it. Let our software automate mundane tasks and free you up for more rewarding work.

READING TIME PER CASE*



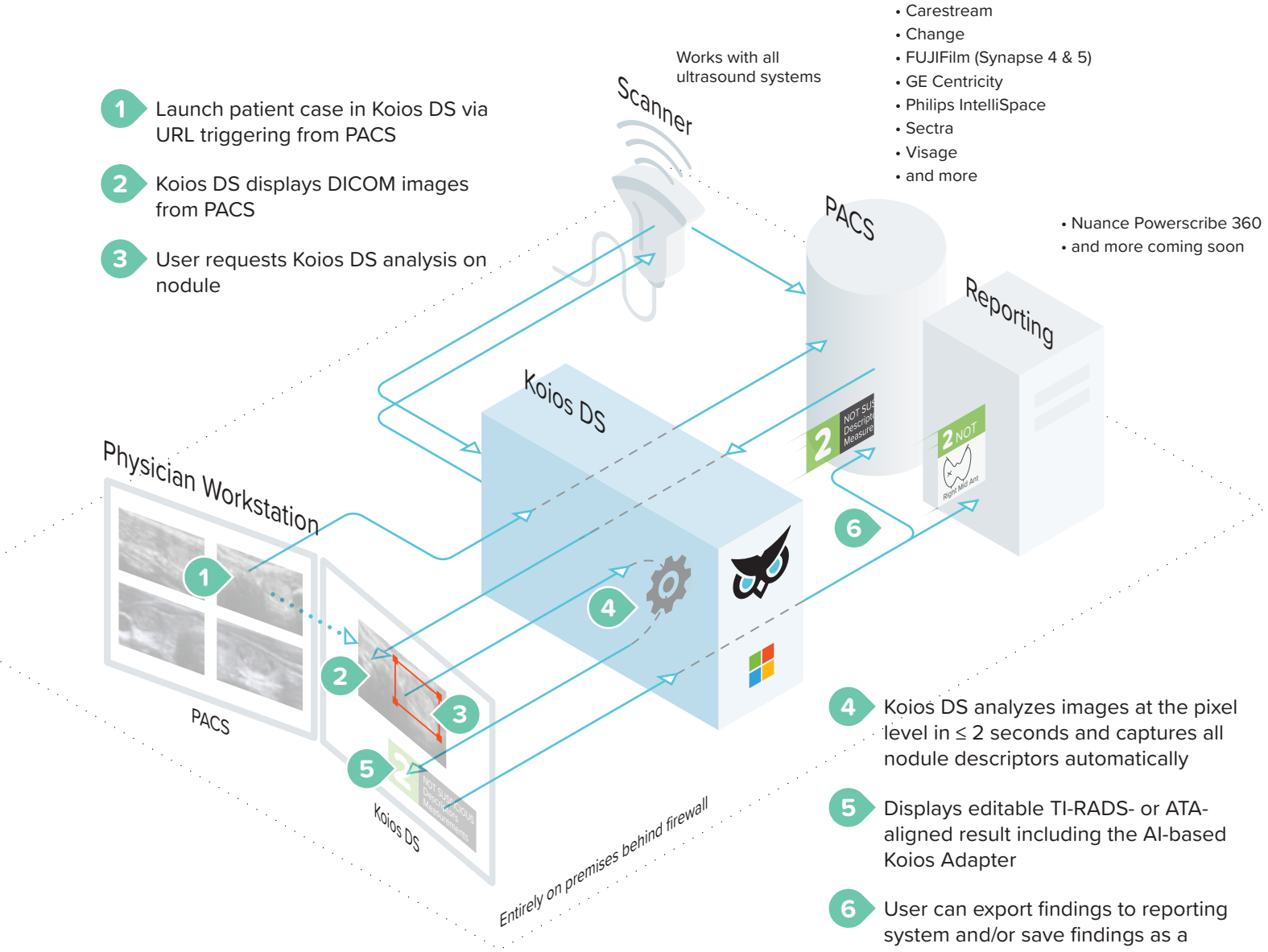
*Average of each physician's improvement in total time interpretating cases. Does not reflect additional time saved by auto-populated reports.

Plays well with others, safely.

Koios DS premise-based technical workflow

Koios DS integrates with all major PACS and automatically sends findings to reporting systems. As a premise-based web application, it sits on a virtual machine (server) on your network behind your firewall. No protected health information ever leaves.

1. Launch patient case in Koios DS via URL triggering from PACS
2. Koios DS displays DICOM images from PACS
3. User requests Koios DS analysis on nodule



4. Koios DS analyzes images at the pixel level in ≤ 2 seconds and captures all nodule descriptors automatically
5. Displays editable TI-RADS- or ATA-aligned result including the AI-based Koios Adapter
6. User can export findings to reporting system and/or save findings as a secondary capture to PACS

koios®

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Contact us or visit koiosmedical.com for a product demo, deployment details, research data, and customer testimonials.

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