

PowerScribe® Smart Impression: Delivering an in-workflow copilot experience

PowerScribe Smart Impression harnesses generative AI to automatically generate draft impressions and recommendations to save time and reduce workload-related stress.

PowerScribe Smart Impression ushers in an exciting new era of generative AI copilot experiences for radiology. An AI-powered large language model surfaces findings and other relevant patient information and automatically drafts impression and recommendation text in the style of the dictating radiologist—helping to drive improved efficiency and increase physician satisfaction.

Pioneers in AI-powered innovation

PowerScribe Smart Impression is the result of continued advancement of AI innovation to reduce clinician burnout, improve clinical efficiency, and support better outcomes. Based on the same technology that drives Nuance's award-winning [Dragon® Ambient eXperience™ \(DAX™\) Copilot](#), PowerScribe Smart Impression is a fully integrated capability that can produce meaningful improvements in productivity and physician satisfaction.

Time savings accelerate report creation

PowerScribe Smart Impression is delivering efficiency gains for users at health systems and radiology practices across the country. Users cite the personalized and accurate wording of draft impressions and how the capability can enhance the speed of interpretation—quickly adding up to significant time savings each day.

According to radiologist Keirsun Crockett, MD, neuroradiologist at Quantum Radiology, "PowerScribe Smart Impression effectively redefines what radiologists should expect from AI-powered radiology solutions. It's really helpful because it consistently generates wording that is exactly what I would say. We've licensed it for all 83 of our radiologists."

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Keirsun Crockett, MD
Neuroradiologist
Quantum Radiology



Reducing cognitive burden

The value of a radiology copilot to help generate draft impressions and recommendations goes far beyond efficiency—scanning for every finding when drafting the result to help ensure that important information isn't missed.

“Radiologists must make high-stakes, timely decisions in dozens of cases each day and generate reports that guide their downstream clinical care, and the cognitive burden of increasing workloads can have great consequences,” said Bernardo Bizzo, MD, Senior Director, Mass General Brigham Data Science Office. “Generative AI tools may offer great value for our field by lightening some of the burdens placed on radiologists by automatically drafting impressions the way we are used to, helping avoid common mistakes and reminding of important information to include.”

The next generation of AI-enabled copilot capabilities

Intelligent impression generation requires a data-centric approach that assigns meaning to text, looks across multiple data sources to validate information, checks for errors and inconsistencies, and makes appropriate recommendations. It must correctly place complete and accurate draft impression text in the report, and it must match the dictator's style.

PowerScribe Smart Impression plays a pivotal role in delivering value to radiologists and advancing PowerScribe as the premier platform for integrating a new generation of AI-enabled copilot capabilities for radiology. The combined expertise and technology of Microsoft + Nuance is leading the way in unlocking meaning from pixels and text to further automate complex workflows and mundane tasks, surface key details, and identify missing information to support patient care.

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Coming to PowerScribe One in CY 2024.

DIFFERENTIATORS

- **Informed:** Trained on millions of radiology reports created using Nuance solutions.
 - **Structured:** Harnesses structured data that has a common meaning across applications and systems to automate reporting workflow and facilitate follow-up tracking.
 - **Customized:** Adapts to the reporting style and preferences of radiologists.
 - **Seamless:** Workflow-integrated and native to PowerScribe; it's not a widget or plug-in.
 - **Comprehensive:** Reflects all relevant radiology findings and other patient data available in PowerScribe, RIS, and PACS systems.
 - **Efficient:** Saves time so radiologists can get more done.
 - **Safe and responsible:** Aligns with Microsoft's Responsible AI standards.
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About Nuance Communications, Inc.

[Nuance Communications](#) is a technology pioneer with market leadership in conversational AI and ambient intelligence. A full-service partner trusted by 77 percent of U.S. hospitals and more than 75 percent of the Fortune 100 companies worldwide, Nuance creates intuitive solutions that amplify people's ability to help others. Nuance is a Microsoft company.