

Inclusivity in dictation: It's essential for radiologists. Period.

Outpatient Imaging Affiliates, LLC, Nashville, Tenn.

Organizational profile

Founded in 2000, Outpatient Imaging Affiliates (OIA) partners with health systems, academic medical centers and radiology groups to help expand imaging capabilities and enhance patient access to high quality diagnostic services. VIP Imaging is a private radiology group that provides professional reads for multiple radiology centers, including OIA.

Solventum solution used

3M™ M*Modal Fluency for Imaging

Snapshot of Outpatient Imaging Affiliates

- Owner/operator of 60+ outpatient imaging centers
- 1.5 million exams/year
- Host 80+ radiologists from multiple radiology groups on the 3M Fluency for Imaging platform

Reducing turnaround time early on

As an outpatient imaging center, OIA experiences a high volume of imaging exams and a constant flow of patients. The organization has continued to expand in recent years, and thus has sought additional outlets to help better manage worklists and upkeep efficiency.

As part of that support, OIA hired an external, private radiology group – VIP Imaging – to help trim their worklist down. Dr. Zahir Momin was one of the first radiologists on site. “My job was to dictate as much as I could,” Momin said. “I was dictating nonstop to keep up with OIA’s imaging volume and expansion. It was imperative to keep the exams and worklist moving to keep up with demand.”

Momin realized early on how much of an impact an efficient speech recognition solution can have on workflow. “In the first week of using 3M Fluency for Imaging, we were able to significantly reduce our turnaround time, allowing the team to keep up in one of OIA’s busier markets.” Momin continued, “Nowadays in modern medicine, you have to learn how to be efficient. Using a speech recognition solution that has a high accuracy right out of the box goes miles for a busy radiology group with a never-ending worklist.”

Strong accent, stronger accuracy

Growing up as a child who learned English as a second language, Momin was accustomed to other speech recognition vendors not picking up some of his words when dictating reports, especially when saying the word ‘period’. “Children who learn a second language around the age of puberty will always have a slight accent,” Momin explained, “I happen to be one of those kids. I’m well aware that the way I say the word ‘period’ at the end of a sentence is a little different, and this has always caused me to have to do many edits in my reports. Even if it’s a few seconds per study, it adds up because I do so many studies every day.”

“In the first week of using 3M Fluency for Imaging, we were able to significantly reduce our turnaround time.”

Dr. Zahir Momin
Radiologist, VIP Imaging

Real results

Nearly
100%

Improved
reporting
accuracy



Reduced
turnaround time,
allowing team
to keep up with
a never-ending
worklist

Punctuation
errors
minimized to

1 in
1000

When the contract began at OIA, it was Momin's first time using Solventum's speech recognition solution prior to his residency nearly 20 years ago. As he became familiar with the interface and technology, Momin noticed his accent when saying the word 'period' was causing the need to edit yet again. He reached out to OIA's internal IT team to help troubleshoot. Together, they tried new workstations, created new login credentials and even tried a new speech microphone. Exhausting all options, OIA escalated the issue to the customer care team at Solventum.

The Solventum team reviewed the captured voice recording of one of his reports. Upon listening, the team took every iteration of Momin saying the word 'period' and incorporated it into his voice profile. "My profile updates were ready once I began my first report the next day," he said. Now, when Momin begins his day of 300 exams, he isn't as apprehensive. "When I say the word 'period' now, the accuracy is near perfect. Maybe one out of every 1,000 times it may come up incorrectly, but to me, that wildly exceeds my expectations for a speech recognition solution."

"Now, with 3M Fluency for Imaging, I can freely dictate complicated scientific statements – as well as natural sentences – at nearly 100% recognition."

Dr. Zahir Momin
Radiologist, VIP Imaging

"3M Fluency for Imaging is among the most stable platforms we host, and that is mainly attributed to the impressive speech recognition and responsive support team."

Jeff Tumbleson

Chief information officer, Outpatient Imaging Affiliates

Uncomplicating complex exams

When reading complex studies, Momin finds it to be more satisfactory when statements involving detailed numbers can be easily recognized when dictated. "In the past, I would dread reading scoliosis studies. When using other speech solutions, recognition errors were so high that I would have to type in the numbers," he said. "Now, with 3M Fluency for Imaging, I can freely dictate complicated scientific statements – as well as natural sentences – at nearly 100% recognition. It's very impressive."

Momin is one of more than 80 radiologists reading for OIA who have been trained on Solventum's AI-powered radiology reporting solution. OIA Chief Information Officer Jeff Tumbleson shared that they couldn't be happier. "3M Fluency for Imaging is among the most stable platforms we host, and that is mainly attributed to the impressive speech recognition and responsive support team. They're always willing to jump in and solve problems when they arise. And for that, we're very thankful for this partnership."

The new healthcare company you already know

On April 1, 2024, 3M Health Care became Solventum, an independent healthcare company.

At Solventum, we create breakthrough solutions for our customers' toughest challenges by pioneering game changing innovations at the intersection of health, material and data science to change patients' lives for the better – while enabling healthcare professionals to perform at their best.

As with any case study, results, outcomes and/or financial improvements should not be interpreted as a guarantee or warranty of similar results. Individual results may vary depending on a facility's circumstances.



Solventum Corporation
3M Center, Building 275
2510 Conway Avenue East
Maplewood, MN 55144

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