

Empower Clinical Leadership with AI

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Acknowledgement of Country

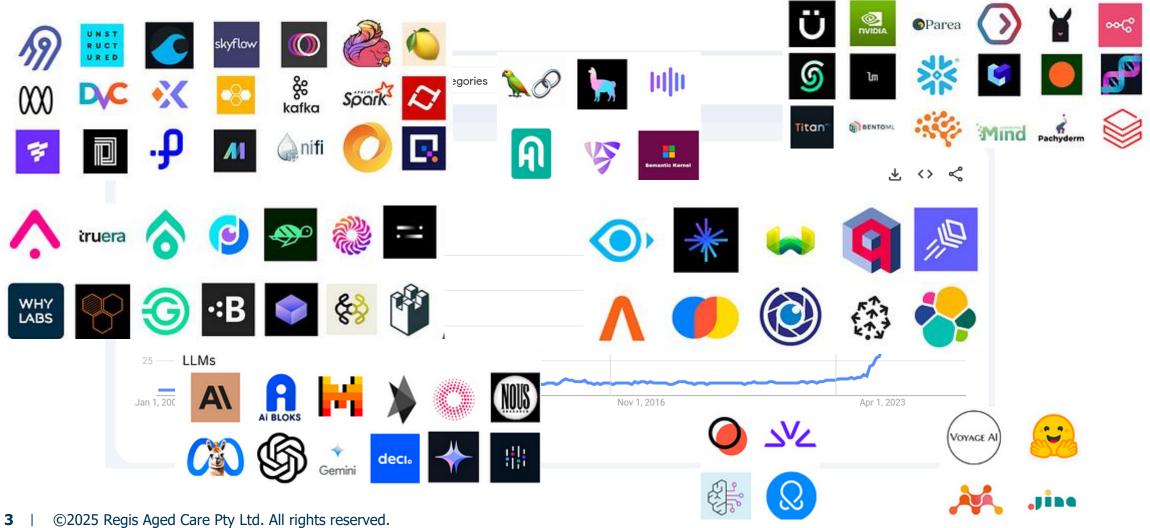
Regis acknowledges the Traditional Owners of Country throughout Australia and recognises the continuing connection to lands, waters and communities.

We pay our respect to Elders past and present.



In November 2022, GPT became accessible to the public and AI systems grew exponentially since then.







The Challenge

Senior clinicians typically spend up to 40% of their time at their desks primarily reviewing residents' progress notes, creating follow-up plans and completing administrative tasks.

This creates a cascade of challenges:



High stress and time pressure to be on the floor



Rushed or incomplete review



Follow-up plans are delivered in an untimely manner



Critical information can be missed

The Opportunity

A custom Regis AI System to unlock clinical efficiency and accuracy.

It generates summaries of progress notes, assists with creating follow-up plans, and acts as a virtual assistant to:

- Surface key clinical events quickly and consistently, reducing the risk of missed insights.
- Accelerate the creation of follow-up plans, enabling timely and informed care interventions.
- Free up senior clinicians' time to focus on direct resident care.

Choosing the appropriate large language model (LLM) was the first step in building a safe and effective custom AI System.



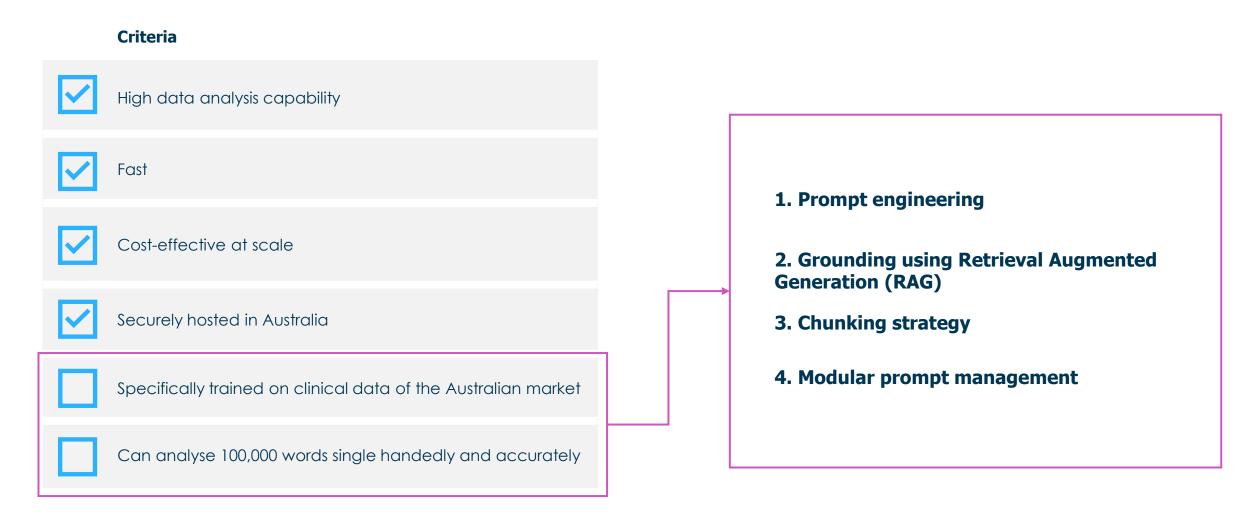
Criteria



GPT-40 met most of these needs and became the starting point.

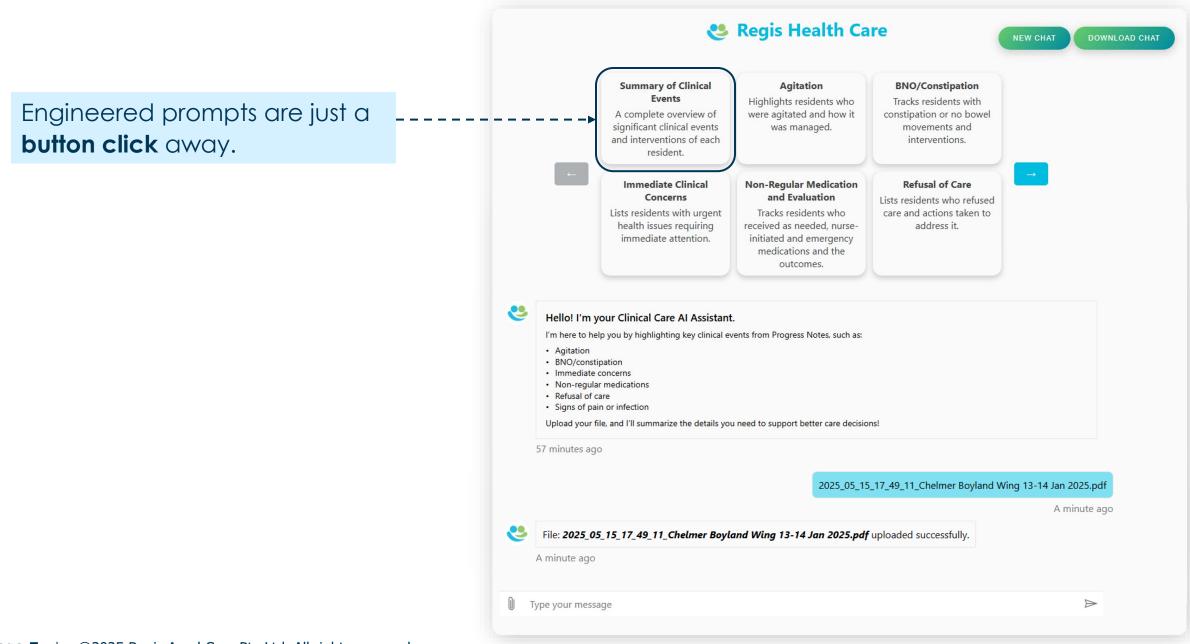
But regardless of the underlying large language model (LLM), we designed the AI System to be flexible and clinically safe.





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^{*} Currently limited to what's available in Microsoft.



ACCURACY TEST

Clinical Concern	Clinician Accuracy	Generic Al System (closed) Accuracy	Regis AI System Accuracy
Immediate Clinical			
Concerns	53%	29%	76%
Signs of Pain	92%	38%	69%
Constipation	100%	63%	84%
Agitation	50%	63%	100%
Medication	71%	38%	76%
Refusal of Care	67%	50%	75%
Total	74%	46%	79%



Pilot Insights



Aim: The AI System to transform the daily routine of the **Clinical Leadership Team (CLT)**



A day in the life of a CLT before introducing the AI System



- Arrives at work, completes walkaround and checks in
 - Begins responding to ad hoc clinical issues



- 10.30 am Attends frontline meeting and nurses' huddle with limited clinical oversight
 - Continues responding reactively to priority tasks



- Progress notes not able to be reviewed until the afternoon.
- ~2-3pm Follow-up plan created (through a time-consuming process of extracting information and writing)
 - Plan typically sent to RNs around 3pm
 - Occasionally unable to complete review until the next day

A day in the life of a CLT when using the AI System



- 7.30am
- Arrives, completes walkground and nurse check-ins



- 8am -8.10am
- Uploads 24-hour progress notes to Al system
- Al generates a clinical summary and a preliminary, draft follow-up plan, and CCM to review



- 10.30 am
- Attends frontline meeting and nurses' huddle better prepared and with clearer oversight of clinical issues



- <12 noon
- Edits the Al-generated follow up plan based on meetings, progress notes and resident check-ins
- Sends the plan to nurses before 12 noon, enabling earlier action on care priorities

The AI System saved time by accelerating care follow ups



Previously

1.5 - 3 hours (depending on the day's complexity, interruptions and prior nurse communication)

- Analysing clinical information
- Making phone calls to gather context
- Following up with nurses and escalating issues
- Making follow-up plans

When using the AI System

Under 1 hour

~2 hours per day is saved per CCM!

Time savings reading the progress notes vary by person, the real benefit emerged in streamlining the creation of follow-up plans

Routine with AI

Here is the new daily routine with AI:



7.30am

 Arrives, completes walkaround and nurse check-ins



8am – 8.10am • Uploads 24-hour progress notes to Al system

Al generates a clinical summary and a preliminary, draft follow-up plan, and CCM to review



9am – 10.30 am

 Attends frontline meeting and nurses' huddle better prepared and with clearer oversight of clinical issues



<12 noon

• Edits the Al-generated follow up plan based on meetings, progress notes and resident check-ins

• Sends the plan to nurses before 12 noon, enabling earlier action on care priorities

The AI System saved time by accelerating care follow ups



Previously

1.5- 3 hours (depending on the day's complexity, interruptions and prior nurse communication)

- Planning and analysing clinical information
- Making phone calls to gather context
- Following up with nurses and escalating issues
- Making follow-up plans

When using the AI System

Under 1 hour

~2 hours per day is saved per CCM!

Time savings reading the progress notes vary by person, the real benefit emerged in streamlining the creation of follow-up plans

Where is that time going?



Resident care

More time spent directly with residents, checking on wellbeing, addressing risks and being on the floor.



"There are no tools that help us spend more time with residents. This one actually does!"

- CCM



Proactive staff support

More frequent check-ins and communication with nurses and ensuring smoother and more effective delegation of tasks.

But beyond time savings, the AI System builds clinical confidence, clarity and coordination.



Benefit

- 1 Enables earlier care interventions and issue prevention
- 2 Supports better prioritisation
- 3 Reduces unnecessary back-and-forth with RNs
- 4 Reduces cognitive load and enhances comprehension
- 5 Improves team confidence and leadership

Overall, the AI System was found to be clinically accurate and easy to use.



O Hallucinations

During the 2-week trial, the Al System provided **no made-up or clinically inaccurate information**.



of the time, senior clinicians rated the system as "very easy" to use.



For clinicians who experienced challenges with reviewing progress notes and creating follow-up plans, the AI System was rated "very helpful" every day of the trial.

We are introducing the AI System as a supportive companion, not as a replacement for clinical judgement.



Clinical Event Summary Assistant

This tool is to support Clinicians – not replace their clinical judgement.

What it is



An Al-powered assistant for staying on top of what's happening with your residents. This tool reads through uploaded progress notes and helps you quickly understand the key clinical events in the past 24 hours.

What it's not



- It's not a replacement for reading individual progress notes.
- It's not a diagnosis or decision-making tool.
- It's not replacing your clinical judgement.

When it's useful



Before frontline meetings: Walk in feeling more prepared to discuss your residents.



During RN huddles: Quickly spot which residents have had significant clinical changes.



Planning follow-up care: Get a clear picture of what's been happening, so you can decide what actions may be needed next.

We enabled responsible AI adoption through learning, guidance, and continuous reinforcement.





Created training videos

Development of a series of Al System training videos.



Designed and tested new prompt buttons

Build and validate pre-written prompts.



Onboarding Workshops

To educate clinicians on the use of AI (Dos & Don'ts)



Crafted Quick Reference Guide (QRG)

One-page guide with sample prompts, dos and don'ts, and tool tips.



Added an Incident Escalation Process

Defining how issues with AI output are identified, reported, and resolved.



Created Policy on AI for Clinical Use

Introduced clear guidance aligned with safety, privacy, and clinical standards.



Added Process for Reading Progress Notes

Reinforcing the expectation that AI is a support tool, not a replacement.

Resources







Al Clinical Use Guide

Guidance for clinicians

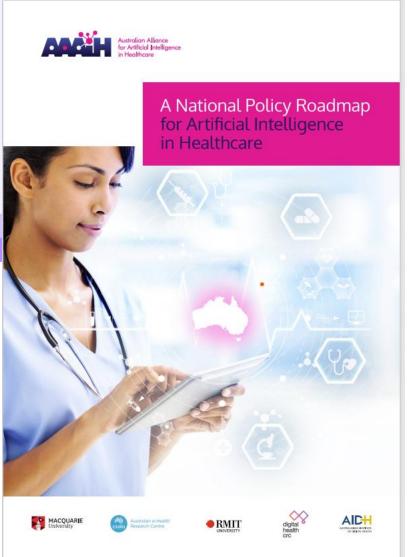
Artificial Intelligence (AI) tools can support a wide range of clinical tasks, improving care delivery, health outcomes, and patient satisfaction.¹

Introduction

Al has supported healthcare in Australia for decades, including early clinical decision support systems used to identify medicine interactions. Like all clinical innovations, Al can bring significant benefits for patient care but also introduces new risks.² The rapid advancement and adoption of Al can result in new and increased risk, especially as evidence of safety and efficacy may lag behind implementation.² This guidance and associated clinical scenarios support clinicians, together with their patients, in using Al safely and responsibly in patient care and are structured to support the steps of 'before you use', 'while you use' and 'after you use' Al tools.

As with all healthcare technologies, clinicians must meet their professional and legal obligations, including <u>Australian Health Professionals Regulatory Authority (Ahpra) and National Boards guidance</u> in relation to patient safety and best practice in the application of Al tools. This requires you to:

- Understand how the AI tool will be used in your workflow and recognise your accountability for all AI outputs that inform a clinical decision, finding or documented record.
- I Inderstand the problems that the ΔI tool is intended to solve, notential clinical or





Questions

Thank you!