



JennieCare - Overview

Evado Technologies, a Melbourne-based digital mobile and data integrator, has just launched **JennieCare**, a clinical information system (CIS) to manage patients with chronic diseases in community or residential care settings.

JennieCare enables comprehensive patient monitoring by allowing patients and multiple clinical providers to plan, chart, and share information securely and in a controlled manner, improving patient outcomes and reducing hospital readmissions. **JennieCare** provides real-time access to charted patient data.

Helping providers deliver better clinical care through a simple, integrated environment.

JennieCare

- Simplifies clinical record management.
- Easy creation and completion of clinical records.
- Patient privacy is fully integrated into the platform.
- Empowers patients to actively participate in their own healthcare.
- Patient care charting at home with real-time alerts to clinicians,
- Patient and clinicians see the same real-time data,
- Reduces patient readmissions.

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Evado Technologies Pty Ltd
Suite 173, 299 Queen Street Melbourne, VIC 3000
t : +61 3 9600-3616 w: www.evado.com e: info@evado.com
ACN: 638 218 247

JennieCare:

- **Security** is built into the platform from the ground up, with multi-layer protection and user activity logging.
- **A Global Privacy module** manages all access to patient details and records and ensures that patient personal information is encrypted at rest (when stored). This enables multiple health providers to participate in the delivery and charting of a patient's care.
- **Care Management** is provided using flexible, robust, and scalable tools for planning patient healthcare.
- **The patient** can perform patient charting while multiple health providers chart the patient's care.
- **Patient monitoring** enables healthcare professionals to track the progress of patients.
- **Automated Alerts** can be sent to healthcare professionals when patient-specific alert thresholds are met, e.g., low SpO2 in a patient with cardiac failure.
- **Standardises** the functionality for planning and charting patient care.
- **Provides** data-driven infrastructure, allowing the to focus on the service's clinical processes without worrying about backend functionality.
- **Integrates** Evado's robust cloud-based technology, which has been used for over 15 years to provide a strategic solution for bringing new services online quickly and economically while minimising the overall solution risk.
- **Delivers** a flexible, powerful, scalable platform for the fast design, development and delivery of web and mobile device Apps.

Platform Security

The Evado products offer a highly secure environment for data collection in healthcare service delivery. This is accomplished through a combination of cloud platform design, layered security integrated into the application, and robust role management. **JennieCare** utilises Evado's patented mobile application framework, which separates application delivery into layers, each with a specific function to minimise exposure to unauthorised access. All user actions are logged, and alerts are dispatched if an unexpected user action takes place.

JennieCare can be hosted within the hospital's IT infrastructure, enabling seamless integration with surrounding Health IT systems, or in a private cloud environment.

Privacy Management

The privacy manager offers a central interface connecting all providers with the patient's details and medical records. The Evado Privacy Manager, or the patient's main healthcare provider, oversees the privacy environment for their patients and regulates access to the patient's data by both internal and external service providers. Privacy management remains patient-focused, enabling patients to decide who can access their medical records.

Record Management

The core of **JennieCare** is a scalable record repository that:

- Can handle thousands of record layouts.
- Each record layout can have hundreds of data fields.
- Each record layout can be versioned online as needed without affecting any existing data.
- Millions of data records can be collected for each version of each data layout.

Surrounding this core are the services, including authentication, access control and logging of user activity.

The platform can define and collect any form-based medical record, storing its content in a secure, extendable format that enables the data to be queried and analysed, effectively providing the service provider with an analysable repository of patient information.

User experience

JennieCare utilises Evado's patented mobile application architecture, providing a fully mobile-enabled solution that delivers universal access to all users, regardless of the device they are using. This allows the application to provide the same content to both web and mobile device users.

JennieCare platform offers an online, highly configurable environment for quickly designing, developing, and delivering mobile health solutions.

JennieCare features include operational and content reporting, dashboards for various user roles, process scheduling, and role-based alert notifications for multiple users. Additionally, mobile device clients can integrate with device components, such as the camera and GPS.

JennieCare features a web service that integrates the platform with external systems and data sources.

Admission to Service

JennieCare offers various types of patient admissions to optimise service delivery. The main admission types include nursing, allied health, mental health, and personal care.

JennieCare has a centralised patient medication history record, documenting the patient's medication and social history, that is visible to all users providing services to the patient.

Documenting care

JennieCare aims to minimise information duplication by separating administrative data from clinical data and structuring records to include only specific types of information. For instance, patient or client medical history is kept separate from care plans or patient outcome records to reduce redundancy of patient history and provide a single source of the patient's historical information.

Care Plans

JennieCare supports a variety of care plans. Providers can develop care plans tailored to each of their services. These plans have a standard set of fields, which can be customised to suit specific service needs. For example, a wound care management plan might include baseline assessments. Patient care plans can be modified whenever their needs evolve.

Patient/Client Charting

JennieCare supports multiple care plans that can be created to define various therapies the client or patient is receiving.

The nursing care plan can also define the patient's daily charting actions. This can include medications or charting daily observations. E.g. record daily vital observations or fluid balances.

The care plan can also define when the action is to be undertaken to deliver the therapy daily or care to the patient, e.g. taking a cardiac medication in the morning.

When patient charting is enabled, a new record is created each day, allowing the patient, care provider, or nurse to record their daily observations. The completed charting records become part of the patient's clinical record collection.

Care Plan Actions

Each Care Plan layout includes care plan actions. These actions specify the particular steps needed to deliver the relevant service or treatment to the patient. A care plan action details the task to be performed, when it should be carried out, and the clinical records to be completed during the process. When relevant, it also indicates the required competency to provide the service.

Patient Visit

The care plan actions outline the patient's visits. If no health records are linked to the action, the default data collection will be a progress note for the visit. If a record is linked to the action, the visit record will show the record field layout, allowing the user to complete the visit data collection requirements as they go through the visit.

Clinical Records

JennieCare supports a basic set of record layouts, including Demographics, Medical History, Care Plans, Daily Charting, and Visits, as well as record layouts for administrative tasks, client charting, and visit record collection. Completed records become part of the patient's record collection.

Access to these records is controlled by the patient's privacy settings. If the integration module is enabled, these records may be shared with external service providers according to their privacy policies. This could include posting daily charting records to a hospital EMR system or a daily summary record to My Health Record.

Visualising Health Data

JennieCare lets users visualise patient record data over multiple days or weeks. The typical charting includes:

- Vital observations
- Fluid balance
- Pain observations

Scheduling care

The patient's care plan defined the actions to deliver the defined therapy. The actions are used to schedule the patient's visits.

Scheduling of care can be managed in several ways:

- **Ad hoc:** The visits are scheduled as needed.
- **Next Visit:** The visit is automatically scheduled after the previous visit, using the care plan action scheduling period to define the next visit date.
- **One to four weeks** in advance. Each scheduling cycle will schedule all visits to be undertaken within the defined scheduling period.

The action's competency setting can be used as the basis for rostering the appropriate staff to deliver services to the patient.

Example Chronic Health Scenario

A patient with heart failure and lung disease. After an extended hospital stay, they can be discharged to undergo rehabilitation, which typically includes a comprehensive medication regimen, fluid monitoring, pain management, and general observation.

JennieCare's care planning module allows the hospital's clinical team to develop an appropriate care plan for monitoring patients at home. The patient charting module enables community nurses to view and record their actions. It also allows patients, clients, or their carers to log the patient's daily progress, including fluid balance, observations, and pain levels.

JennieCare's privacy manager allows third-party nursing or allied health providers to be included in the patient's care. Patient progress can be monitored online in real-time by the patient's GP and the hospital's clinical team. Patient charting triggers, such as low SpO₂, can notify the patient's care team or GP of issues, enabling them to respond proactively to the patient's changing condition. If the patient presents at the emergency department, the ED clinical team can review the patient's care chart to access the latest information on their current clinical status.

More information

Evado Technologies Pty. Ltd.



Aust. +61 3 9600 3616



: info@evado.com

Web: www.evado.com