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AI Based Nursing Care Plan

Enhancing Nursing Efficiency with AI Based Care Plans

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Overview

- The AI-Powered Nursing Care Plan solution automatically generates patient-specific nursing care plans using Electronic Medical Record (EMR) data. The system assists nurses in creating standardized, evidence-based documentation while allowing complete clinical review and validation before finalization.

Key Features

- ✓ AI-generated nursing care plans from EMR
- ✓ Patient-specific nursing diagnosis
- ✓ SMART nursing goals
- ✓ Evidence-based nursing interventions
- ✓ Expected outcomes
- ✓ Nurse review & editing before approval
- ✓ Standardized documentation



Benefits

- Faster Documentation
- Reduces manual documentation time and accelerates care planning.
- Improved Accuracy
- Generates patient-specific care plans directly from clinical data.
- Standardized Care
- Ensures evidence-based and consistent nursing practices.
- Enhanced Productivity
- Allows nurses to spend more time on patient care rather than documentation.
- Better Clinical Decision Support
- Provides AI-assisted recommendations while preserving clinical judgment.



Challenges

Challenges in Manual Nursing Care Planning

- Manual documentation consumes significant nursing time.
- Variations in care planning across nurses and shifts.
- Care plans are not consistently updated with changing patient conditions.
- Increased documentation burden and nurse fatigue.
- Difficulty maintaining standardized clinical documentation.
- Higher medico-legal and compliance risks due to incomplete records.

Impact

- Reduced efficiency, inconsistent documentation, and less time available for patient care.



Three Pillars of the Solution

People

- Reduces nursing workload , Improves clinical confidence
- Supports new nursing staff
- Enhances patient-focused care

Process

- Standardized documentation
- Evidence-based care planning ,Improved compliance

Technology

- AI-powered clinical recommendations
- EMR integration
- Real-time data analysis
- Intelligent decision support



Workflow

Patient Admission



Clinical Assessment



Patient Data Retrieved from EMR



AI Generates Nursing Care Plan



Nurse Reviews & Edits



Clinical Validation



Final Care Plan Saved



Continuous Monitoring



Plan Updated Based on Patient Progress



AI Based Nursing Care Plan Video

HI free **Nurse Care Plan**

IPNO: 2820 dd-mm-yyyy --:-- Remaining Characters--5000

Nursing Assessment	Problem Identified	Goal	Intervention	Implementation	Outcome	Special Notes

Nursing Assessment	Problem Identified	Goal	Intervention	Implementation	Outcome	Special Notes	Added by	Added on	Verified by	Verified on	Marked as Error
Activate Windows Go to Settings to activate Windows.											



Screenshots

Patient Assessment

HKfree

Nurse Care Plan

RK

(Cash) 3rd FLR TI-NSI 342Dr.Sajith Abraham | 14/May/2025

IPNO: ***** 31-07-2025 12:54 Generate Nurse Care Plan Click to generate auto NCP based on patient data from EMR Remaining Characters-5000

Nursing Assessment	Problem Identified	Goal	Intervention	Implementation	Outcome	Special Notes
Select	Select	Select	Select	Select	Select	Select

Nursing Assessment	Problem Identified	Goal	Intervention	Implementation	Outcome	Special Notes	Added by	Added on	Verified by	Verified on	Marked as Error
Assess patient's general condition.	Risk for infection related to disease conditions	Prevent infection as evidenced by normal parameters, absence of fever, and no increase in WBC count during the hospital stay.	1. Promote good hand washing by patient and staff. 2. Change position frequently and provide good pulmonary hygiene.	1. Hand hygiene performed every time 2. Positioned the patient in an upright or semi-upright position 3. In between diets are properly given.			Sonomol Benny	19/05/2025 08:20:00			
Assess vital signs routinely.			3. Promote adequate nutritional intake.	4. Educated to patient & family about hand							
Assess for signs of infection and inflammation.			4. Oral suctioning performed as required.								

AI Generated Nursing Diagnosis

HKfree

Nurse Care Plan

RK

(Cash) 3rd FLR TI-NSI 342Dr.Sajith Abraham | 14/May/2025

IPNO: 31-07-2025 12:54 Auto generated NCP which is editable. Generate Nurse Care Plan Remaining Characters-4797

Nursing Assessment	Problem Identified	Goal	Intervention	Implementation	Outcome	Special Notes
Select	Select	Select	Select	Select	Select	Select

Nursing Assessment	Problem Identified	Goal	Intervention	Implementation	Outcome	Special Notes	Added by	Added on	Verified by	Verified on	Marked as Error
Since the primary doctor specialty is ENT and Head & Neck Surgery, we will assess for any head and neck issues; the patient age is 64, male patient, will also assess their	Potential risk of complications from ENT and Head & Neck Surgery due to age, hearing loss and decreased vision.	The patient will be free from complications and will have optimal recovery from surgery with optimal hearing and vision within 72 hours.	Conduct regular vital sign checks, monitor for bleeding or hematoma, provide emotional support, assess the patient's airway, breathing, and	Assess patient every hour for the first 24 hours post-surgery, monitor the patient's oxygen saturation and respiratory rate, assess the patient's pain level	The patient will have stable vital signs, no signs of bleeding or hematoma, optimal pain management, and optimal recovery from surgery with optimal	Patient is 64 years old, and male, which may have specific needs such as regular monitoring of blood pressure, provision of reading glasses or hearing aid, and					
Assess patient's general condition.	Risk for infection related to disease conditions	Prevent infection as evidenced by normal parameters, absence of fever, and no increase in WBC count during the hospital stay.	1. Promote good hand washing by patient and staff. 2. Change position frequently and provide good pulmonary hygiene.	1. Hand hygiene performed every time 2. Positioned the patient in an upright or semi-upright position 3. In between diets are properly given.			Sonomol Benny	19/05/2025 08:20:00			
Assess vital signs routinely.			3. Promote adequate nutritional intake.	4. Educated to patient & family about hand							
Assess for signs of infection and inflammation.			4. Oral suctioning performed as required.								

IPNO:



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Nursing Assessment	Problem Identified	Goal	Intervention	Implementation	Outcome	Special Notes
Select	Select	Select	Select	Select	Select	Select

Post saving of AI generated NCP

Nursing Assessment	Problem Identified	Goal	Intervention	Implementation	Outcome	Special Notes	Added by	Added on	Verified by	Verified on	Marked as Error
This was generated through AI and is being edited: Since the primary doctor specialty is ENT and Head & Neck Surgery, we will assess for any head and neck issues, the patient age is 64, male patient we will also assess their	Potential risk of complications from ENT and Head & Neck Surgery due to age, hearing loss and decreased vision.	The patient will be free from complications and will have optimal recovery from surgery with optimal hearing and vision within 72 hours.	AI generate intervention being edited	Assess patient every hour for the first 24 hours post-surgery, monitor the patient's oxygen saturation and respiratory rate, assess the patient's pain level and provide medication as needed.	The patient will have stable vital signs, no signs of bleeding or hematoma, optimal pain management, and optimal recovery from surgery with optimal hearing and vision within 72 hours.	Patient is 64 years old, and male, which may have specific needs such as regular monitoring of blood pressure, provision of reading glasses or hearing aid, and assistance	Rajendra S Kshirsagar	31/07/2025 12:54:00			

Nurse Review
Final Care Plan



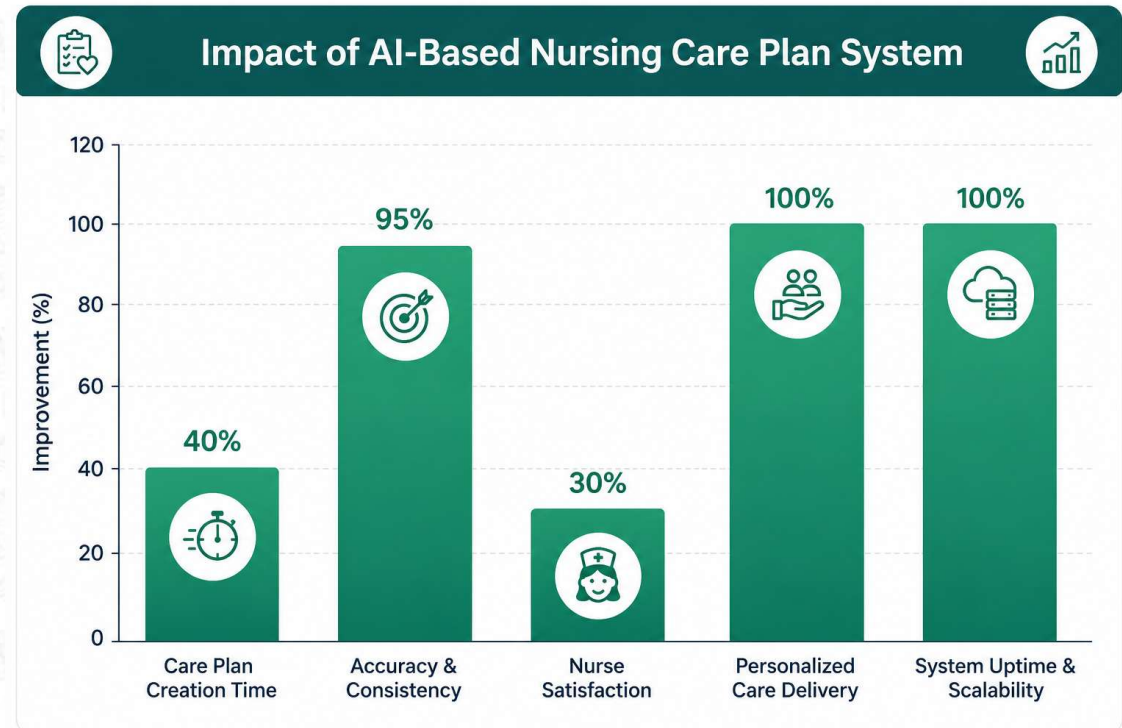
AI-Based Nursing Care Plan Outcomes

AI-NCP Outcomes

- KPI Achievement
- Care Plan Creation Time Reduced by 40%
- Documentation Accuracy 95%
- Nurse Satisfaction Increased by 30%
- Personalized Care Plans 100%
- System Availability 100% Uptime

Key Impact

- Faster clinical documentation
- Improved consistency
- Reduced nursing workload
- Enhanced patient-centered care
- Better compliance with documentation standards

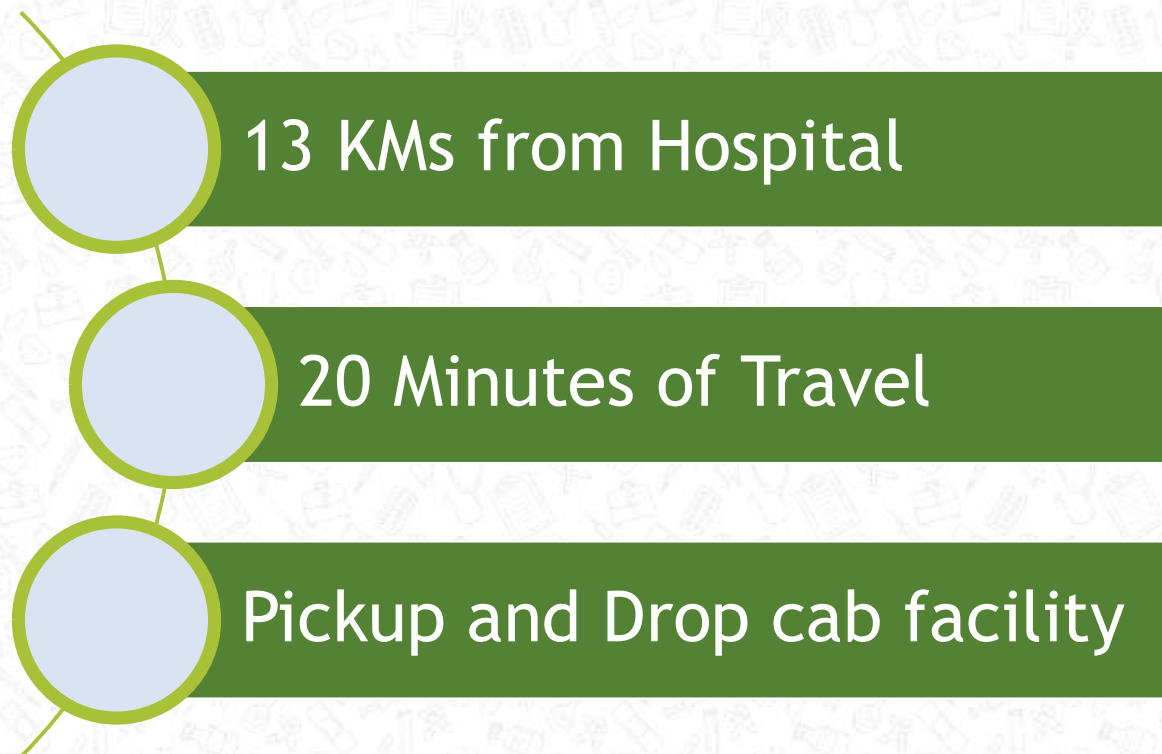




Transforming Nursing Care with AI-Powered Clinical Intelligence.



So, how did it go ?





Questions ?

Thank you.



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