Queensland Government

NIKI T34™, T34™ and BodyGuard™ T Subcutaneous Medication Infusion Chart

(Affix identification label here)

URN:

Family name:

Given name(s):

Address:

Date of birth: Sex: ☐ M ☐ F ☐ I

NOT A VALID PRESCRIPTION UNLESS IDENTIFIERS PRESENT

NIKI T34™, T34™ and BodyGuard™ T Syringe Pump Problem Solving

Troubleshooting alerts and alarms

Screen information	Result/cause	Possible actions
Program nearly complete	*Alert:* Program is about to end/syringe is almost empty.	Prepare to change syringe or discontinue pump use.
Low battery	*Alert:* Battery is almost depleted.	Prepare to change battery.
Pump paused too long	*Alarm:* The syringe pump has been stopped/paused for more than 2 minutes without any key presses.	Either press ▶ key to resume the infusion, press ☐ to continue pause for another two minutes or turn the power off.
Syringe empty, remove syringe	*Alarm:* Current infusion program has completed/syringe is empty.	Prepare to change the syringe or discontinue pump use.
End battery	*Alarm:* Battery will fail imminently.	Change battery.
Syringe displaced Check syringe	*Alarm:* One or more of the syringe detection sensors is not detecting.	Check the syringe and re-seat as necessary. Check screen messages for assistance.
Occlusion/empty syringe Check line	*Alarm:* Clamped set, occluded or kinked. Actuator has reached the minimum travel position.	Release the clamp, flush/replace the access device or clear the occlusion.
System error (high priority alarm) *Press and hold ⊞ key for details. If problem persists send pump for service.*	*Alarm:* An internal system error has occurred.	If error recurs: Take pump out of use. Press ⊞ key to obtain error message. Record error code and summary of fault and return to designated service centre.
Error. Startup motmov fail. *If problem persists send pump for service.*		
Date and time *Incorrect date/time. Press ▶ key to restore*	*Alarm:* The internal backup battery has been depleted and date/time values have been reset.	Press the ▶ key , then enter current date and time.

Technical problem/error and failure identification

- The syringe pump alarms if an internal system fault has been detected and the unit will be inoperative.
- The user may be prompted to power off and restart, which may rectify the error.
- If the problem cannot be rectified: power off and remove from patient use.
- Refer to the *Technical Service Manual* for full details of all technical alarms.
- Follow local policy and/or contact your authorised Medical Engineering Department for advice.

The Event Log within the NIKI T34™, T34™ and BodyGuard™ T syringe pump will record the error/alarm event.

Subcutaneous Cannula Sites

- If the Occlusion alarm continues after problem solving actions have occurred, remove and replace the subcutaneous cannula as it may be kinked under the skin.
- If frequent (i.e. every 24 to 48 hours) re-siting of the subcutaneous cannula is required due to site reactions, consider:
  - » Changing to a less irritant medicine[1].
  - » Adding dexamethasone 1mg to the infusion as an anti-inflammatory agent[1].
  - » Using NIKI T34™, T34™ or BodyGuard™ T syringe pumps to separate medicines and increase infusion dilution.

[1] Therapeutic Guidelines Limited. Palliative Care: Subcutaneous drug administration in palliative care (Appendix 10.1). [Internet]. West Melbourne (Victoria): Therapeutic Guidelines Limited; July 2016 [eTG August 2020 edition]. Available from: Palliative Care Subcutaneous Drug Administration in Palliative Care (Appendix 10.1).

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v2.00 - 07/2021

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Facility: .....

First Prescriber **to Print Patient Name and Check Label Correct:**

.....

This form is suitable for use in Hospitals and Residential Aged Care Facilities.

Practice Tips for NIKI T34™, T34™ and BodyGuard™ T Syringe Pump

Remember the NIKI T34™, T34™ and BodyGuard™ T syringe pump is pre-programed to run over 24 hours for palliative care patients.

To standardise practice, it is recommended to:

- Use 30mL Luer lock syringes. Luer lock syringes prevent risk of disconnection. A 30mL syringe is the largest size syringe that can be contained within the NIKI T34™, T34™ and BodyGuard™ T syringe pump safety Lockbox.
- Use sodium chloride 0.9% as the diluent of choice, unless incompatible with medicine to be infused.
- Draw up medicine(s) plus sodium chloride 0.9% to a combined volume of 20mL to dilute the infusion as much as practical.
- Complete the documentation record sheet on a regular basis, as required by policy and procedures of the local service provider.
- Contact the prescriber for advice if more than three doses of breakthrough medicine are required in a day for a particular symptom.
- Change the extension set every 72 hours or whenever medicine orders are changed.

Battery Guide

Niki T34™	Any 9V alkaline disposable battery. Battery life up to 72 hours.
T34™ and BodyGuard™ T	9V alkaline disposable battery with IEC code 6LR61 (code will be written on the battery casing). Brands that meet this requirement are: • WINC 9V premium alkaline battery • Battery World ultra alkaline battery Battery life approx: 24 hours for T34™ and 50 hours for BodyGuard™ T

Commencing an Infusion

- Prime the extension set using the PURGE function on the NIKI T34™, T34™ and BodyGuard™ T syringe pump before connecting it to the patient.
- Purging can use up to 2mL of the infusion volume, hence the duration of the infusion can be two to two and a half hours shorter for that day.
- Once the infusion has commenced, remember to press and hold the information button to lock the NIKI T34™, T34™ and BodyGuard™ T syringe pump keyboard.

Terminal Care Prescribing

- For information concerning terminal phase medicine doses and opioid conversions download the NPS MedicineWise PalliMEDS app.
- When using a NIKI T34™, T34™ and BodyGuard™ T syringe pump for terminal phase symptom management, it is best practice to also prescribe anticipatory medicines for pain, agitation, nausea and respiratory tract secretions.
- When commencing patients on a NIKI T34™, T34™ or BodyGuard™ T syringe pump any existing opioid therapy should be reassessed. In particular, consider whether opioid patches should be continued.
- Opioid breakthrough dosing is usually 10% of the total (24 hour) background opioid dose.

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Attach ADR Sticker ☐ NKDA ☐ Unknown

(see Medication Chart for details)

Sign .... Print .... Date ....

First Prescriber **to Print Patient Name and Check Label Correct:**

Opioid patch to remain? ☐ Yes ☐ No ☐ Not applicable

Prescription

Should be reviewed daily and is valid for up to seven (7) days

Date	Time (24hr)	Medication (print generic name)		Dose to be delivered in 24 hours	Prescriber: Print your name	Prescriber: Signature	Pharmaceutical review (sign and date)
			Dilute with 0.9% sodium chloride				

Nursing Calculation and Administration Record

Date							
Time							
Medication/Ampoule conc.	**Volume**	**Volume**	**Volume**	**Volume**	**Volume**	**Volume**	**Volume**
/	mL	mL	mL	mL	mL	mL	mL
/	mL	mL	mL	mL	mL	mL	mL
/	mL	mL	mL	mL	mL	mL	mL
/	mL	mL	mL	mL	mL	mL	mL
/	mL	mL	mL	mL	mL	mL	mL
/	mL	mL	mL	mL	mL	mL	mL
/	mL	mL	mL	mL	mL	mL	mL
Sodium chloride 0.9%	mL	mL	mL	mL	mL	mL	mL
Total volume							
Prepared by							
Checked by							
Rate (mL/hr)	mL/hr	mL/hr	mL/hr	mL/hr	mL/hr	mL/hr	mL/hr
Total volume at commencement of infusion (after priming)	mL	mL	mL	mL	mL	mL	mL
Date site changed							
Volume discarded at end of infusion	mL	mL	mL	mL	mL	mL	mL
Discarded by/ Witnessed by	/	/	/	/	/	/	/
Pharmacist							

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Site Check and Device Check Record

Monitoring of the infusion must be documented every four (4) hours

PAIN SCORE
- Ask the patient to rate the pain by a numerical scale 0–10 *(0 = No pain, 10 = Worst pain imaginable)*
- Document the score

SITE CHECK
- Check infusion site
- Record the results *(e.g. B1 = Mild swelling)*

A Redness
B Swelling
C Tenderness/ hardness
D Leakage
E Urticaria
F Haematoma

0 None
1 Mild
2 Moderate
3 Severe
4 Very severe

DEVICE CHECK
Check the device, solution and line using the check list below.
- Required volume (mL) has been delivered
- Connections are secure
- Solution is clear
- Lines are kink free
- Battery life adequate (refer to relevant product information)
- Volume remaining is sufficient to maintain continuous infusion as prescribed

Record results:
- Y (Yes) if all checks positive
- N (No) if any check negative
- If N, document problem and action in progress notes

Date	Time (24hr)	Pain score (0–10)	Site check	Device check (✓)	Volume left (mL)	Sign	Comments
	04:00			☐ Y ☐ N			
	08:00			☐ Y ☐ N			
	12:00			☐ Y ☐ N			
	16:00			☐ Y ☐ N			
	20:00			☐ Y ☐ N			
	24:00			☐ Y ☐ N			
	04:00			☐ Y ☐ N			
	08:00			☐ Y ☐ N			
	12:00			☐ Y ☐ N			
	16:00			☐ Y ☐ N			
	20:00			☐ Y ☐ N			
	24:00			☐ Y ☐ N			
	04:00			☐ Y ☐ N			
	08:00			☐ Y ☐ N			
	12:00			☐ Y ☐ N			
	16:00			☐ Y ☐ N			
	20:00			☐ Y ☐ N			
	24:00			☐ Y ☐ N			
	04:00			☐ Y ☐ N			
	08:00			☐ Y ☐ N			
	12:00			☐ Y ☐ N			
	16:00			☐ Y ☐ N			
	20:00			☐ Y ☐ N			
	24:00			☐ Y ☐ N			
	04:00			☐ Y ☐ N			
	08:00			☐ Y ☐ N			
	12:00			☐ Y ☐ N			
	16:00			☐ Y ☐ N			
	20:00			☐ Y ☐ N			
	24:00			☐ Y ☐ N			
	04:00			☐ Y ☐ N			
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