

## Last dose administration checking on the MAR

### Medication Management

#### Quick reference guide

The purpose of the **Last dose administration checking** functionality on the MAR is to assist clinicians in identifying the last dose given for **one** particular medication, including from any completed or discontinued orders. Clear visibility of the last given dose (including time and date given) assists with clinical decision making around the appropriateness of the next administration time. For example, when both regular and PRN ondansetron have been ordered, it is important to identify when the last dose has been given from either of these orders.

#### On the MAR:

- If there are no previous administration documented within the last 5 days, the administration task will display **Not given within 5 days** (the maximum lookback period).
- If there are previous administrations of a medication, this will be displayed as **Last given: dose, date and time** on the MAR administration task. This information is displayed on tasks for scheduled, unscheduled and PRN medication orders.

Pending  
Not given  
within 5 days.

500 mg  
Last given:  
500 mg @  
21-Apr-2018  
15:35 AEST

- Hover over the administration task to review additional details in the tooltip:

16-Apr-2018 18:00 AEST	16-Apr-2018 17:04 AEST	16-Apr-2018 17:02 AEST	16-Apr-2018 16:30 AEST
300 mg			
Last given:			
300 mg			
16-Apr-2018 16:20			
<b>CHOTEST, LCCHAH - 487715</b> paracetamol Last Given: Dose: 300 mg Route: Oral Given: 16-Apr-2018 16:20 AEST Performed by: PAGE, NATALIE JANE BULA PHARM Result Comment:asdsd			

- You will also see this tooltip pop up when you hover over the order in the MAW.

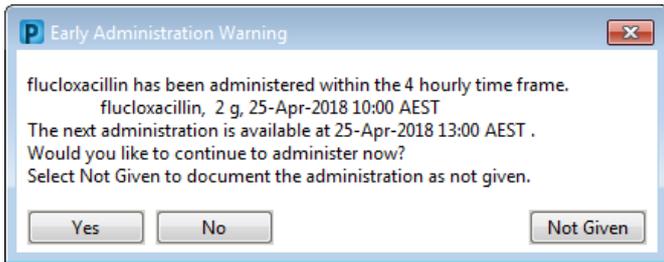
16-Apr-2018 15:53 AEST - 16-Apr-2018 18:23 AEST			
Scheduled	Mnemonic	Details	Result
16-Apr-2018 18:00 AEST	paracetamol (paracetamol) mg/mL intravenous solution	CHOTEST, LCCHAH - 487715	able, IV, start: 16/04/18 1...
PRN	morphine	paracetamol Last Given:	imes a day, start: 16/04/...
PRN	morphine (morphine hydrochloride) 1 mg/mL oral solution	Dose: 300 mg	hourly, start: 16/04/18 1...
PRN	paracetamol (paracetamol) 300 mg/mL oral solution	Route: Oral	start: 16/04/18 17:03:00 ...
Continuous	sodium chloride (sodium chloride) 0.9% intravenous solution	Given: 16-Apr-2018 16:20 AEST	1,000, 1,000 mL, Solutio...
Continuous	Sodium Chloride 0.9% intravenous solution	Performed by: PAGE, NATALIE JANE BULA PHARM	50, 50 mL, Solution, inj...
Continuous	Sodium Chloride 0.9% intravenous solution	Result Comment:asdsd	

Note, the MAR identifies administrations across all medication orders within the last 5 days that contain the same generic medication(s), to determine the last administration details for each. Cross-checking only occurs between orders with an identical generic medication. For example if there is a regular order for Targin<sup>®</sup> (oxycodone-naloxone) and an oxycodone PRN order, cross-checking for administrations between these orders will NOT occur as they do not have the identical generic medication (oxycodone is not identical to oxycodone-naloxone).

**Last given** refers to the last documented administration authenticated result, including modified results. However, this **excludes Not Given, Not Done, In Error, and response task results** and also excludes the last administration details of any **Continuous Infusions**.

- If an attempt is made to administer the next scheduled dose of a medication too early, an **Early Administration Warning** will appear:





It is important to review the details in the early administration warning to determine whether the medication administration being attempted aligns with the prescribed schedule/frequency.

- When a medication administration task displays **Last given** information and/or an **Early Administration Warning** appears, the MAR or MAR summary should be reviewed (including discontinued and/or completed orders) to identify the medication order that the dose was last administered from. A clinical decision should be made whether to proceed with the administration of the current medication order, based on:
  - Time of last dose given
  - Actual dose given
  - Frequency on medication order for the dose being given
  - The order from which the last dose was given
  - Clinical context of the patient's treatment

Note, in some scenarios, last dose administration checking can display information or fire early administration warnings which are not clinically relevant.

**Example 1**

If a patient is prescribed both sodium chloride 0.9% flush and sodium chloride 0.9% oral solution, these orders will cross-check the last administration documented (see example below). This is because these orders share the same generic ingredient (sodium chloride) and last dose administration checking is performed across

orders for the same generic medication. Hover over the **administration task** to review additional information.

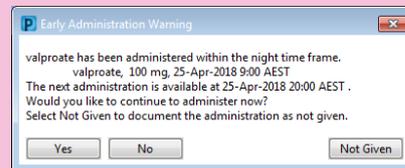
Medications	20-Apr-2018 11:00 AEST	19-Apr-2018 19:00 AEST	19-Apr-2018 11:50 AEST	19-Apr-2018 11:49 AEST
sodium chloride (sodium chloride 2 mmol/ml oral solution) 12 mmol, Solution, Oral, TWICE a day, start: 19/04/18 11:00:00 AEST, Indication: test Target Dose: sodium chloride 2 mmol/ml oral solution 1 mmol/kg 19-Apr-2018 11:48	12 mmol Last given: 12 mmol @ 19-Apr-2018 11:49 AEST	12 mmol Last given: 12 mmol @ 19-Apr-2018 11:49 AEST		
sodium chloride				12 mmol Auth
PRN		PRN		5 mL Last given: 12 mmol @ 19-Apr-2018 11:49 AEST
sodium chloride (sodium chloride 0.9% injectable solution) 5 mL, Injection, IV, As indicated, start: 19/04/18 11:48:00 AEST, PRN for other: see order comments, Indication: Pulsatile flush post blood sampling and medication administration				
sodium chloride				

**Example 2**

When multiple orders of a medication are placed for administration of different doses at different times of day (split dose regimen), last administration checking will display the last dose given from any of the orders.

valproate 100 mg, Tablet, Oral, morning, start: 25/04/18 08:00:00 AEST, Indication: seizures Take with or soon after food.				100 mg Auth IV
valproate	200 mg			
valproate 200 mg, Tablet, Oral, night, start: 25/04/18 20:00:00 AEST, Indication: seizures Take with or soon after food.	Last given: 100 mg @ 25-Apr-2018 9:00 AEST			
valproate				

Early administration warnings may appear when administering doses of these medications:



Once reviewed, the warning can be overridden if appropriate.

**Medications administered intra-operatively**

In the operating theatre, medications can only be documented as a bolus or infusion. If the anaesthetist has documented the medication administration as an infusion, this will appear on the MAR under continuous infusions. Cross-checking of the last administration details with scheduled or PRN medication orders on the MAR will **NOT** occur. This is particularly important for



medications given as an infusion (e.g. gentamicin, vancomycin etc).

**Always check the discontinued medication and continuous infusion sections carefully for all medications administered in theatre.**

Note, **Last dose given** provides limited guidance around safe intervals between medication administrations. There will be situations where it is clinically appropriate to administer a dose within a given time frame. Clinicians should always check with their team leader or pharmacist if unsure or concerned.

