

NRAP Good Practice Repository – COPD

Barnet Hospital Royal Free London NHS Foundation Trust



*% of patients submitted to the audit.

We have improved our prescribing of oxygen to a targeted saturation to 100%. Despite efforts to raise awareness of this among the wide number of respiratory and nonrespiratory clinicians admitting patients acutely, we had struggled to do this for a long time prior to the change described below.

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Our processes to achieve good practice in KPI2:

Our Trust went paper-free in 2019 using Cerner for electronic patient records and prescribing. Although oxygen prescribing was integrated in this, rates of prescribing remained low.

Working with our Electronic Prescribing and Medicines Administration (EPMA) team, we worked to implement a prescribing alert for oxygen which went live in April 2021.

Whenever an inpatient has been administered oxygen in the previous six hours (as recorded on their observations), and a prescriber opens their record to request another medication, an alert pops up to prompt oxygen prescribing alongside. This links directly to add the oxygen to their medication requests with a single click, thus making it quick and easy to prescribe. The oxygen prescription ensures that the saturation target and delivery mode are specified, which therefore prompts the prescriber to record this decision if it has not already been documented.

Along with some other improvements to the oxygen prescription itself to ensure that the available delivery modes and saturation targets were optimised, this was the single change that improved our prescribing rates.

Patients who are admitted with COPD are reviewed during their admission by a Specialist Respiratory Team* (mostly nurses but also includes respiratory physiotherapy) and their care is optimised to include all aspects of the COPD discharge bundle, including smoking cessation. The team discuss audit results and where results are lower than expected, the service review practice to ensure improvement seen.

Description of the alert parameters:

The Royal Free London NHS Foundation Trust and West Hertfordshire Hospitals NHS Trust oxygen localisation group wanted a way of reducing oxygen being administered without an oxygen prescription. It was suggested that an alert can be introduced with the following specification:

Who receives the alert?	Clinical practitioner roles
When does the proposed alert fire?	If any pharmacy type (medicine) order is
	placed, and the system detects the patient is
	receiving oxygen (nurse is recording a flow rate
	or delivery device in iView) without a
	prescription.
Alert text:	OXYGEN NEEDS PRESCRIBING
	You have placed orders for a patient who has
	been administered oxygen in the last four hours
	but isn't currently prescribed, please review
	urgently.

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This ticket was resolved by Zak (ex EPMA pharmacist) on the 19/04/2021 – which should be when the alert went live.

Alert fires if:

• A clinical practitioner access role clicks sign when adding any medication order.

AND

• A nurse has recorded anything but "Room air" when recording oxygen therapy as part of their vital signs rounds in the past 6 hours.

(1) W		Oxygen Therapy 🛛 🗙
R 🚮 🗗	Í	Room air
⊿ Vitals - Adult		Aerosol mask
Consented to vital signs		All-Purpose nebulizer
Respiratory Rate	br/min	BIPAP
Respiratory Distress		Blow-By
SpO2	%	CPAP
🕹 Oxygen Therapy		Face shield
Inspired O2	%	🗌 High-អាទិល
SBP/DBP Cuff	mmHg	Humidification
Mean Arterial Pressure, Cuff	mmHg	Mist tent
SBP/DBP Sitting	mmHg	Nasal cannula
SBP/DBP Standing	mmHg	Nonrebreather mask
SBP/DBP Supine	mmHg	Partial rebreather mask
Heart Rate	bpm	Simple mask
AVPU Conscious Level		T-Piece
Temperature	DegC	Trach shield
Temperature Location		Ventilator
POCT Blood Glucose TYPED n	nmol/L	Venti-Mask
4 Danid Decoonce Team	L	

AND

• no oxygen order already exists, and they are not adding an oxygen order at that time.

AND

• The alert hasn't already fired to that same user in the past 6 hours.

AND

• The patient isn't in an ICU location.



Alert fires as below.

• Default ticks oxygen order to be added.

P	Discern: (1 of 1) – 🗖	×
Cer	OXYGEN ALERT	
	EST, GEMMAEPMA has received oxygen within the previous rs without an oxygen prescription on the drug chart.	
Pleas	e use the order below to prescribe oxygen if appropriate.	ß
Add	orders for:	
	OK	