

# Barnsley Hospital – Nov 2020



Please find attached SOP for the Management of Oxygen.

Below is a screenshot where this is available on our main Covid-19 intranet page

The screenshot shows a web browser window with the URL <http://intranet.bdgh-tr.trent.nhs.uk/teams/covid-19/>. The browser's address bar includes a search field. Below the browser window is a blue navigation bar with the following menu items: DEPARTMENTS, STAFF ZONE, NEWS, PHONEBOOK, A-Z, E-FORMS, ELECTRONIC PATIENT NOTES, and IRIS. The main content area features a large heading: **Covid-19 (Coronavirus) Latest Information**. Below the heading are contact details: a phone icon with the number 2050, an email icon with the address [barnsleycomms.covid-19@nhs.net](mailto:barnsleycomms.covid-19@nhs.net), and a Twitter icon with the handle [@barnshospital](https://twitter.com/barnshospital). A 'QUICKLINKS' section contains six green buttons with white text and icons: 'Health and Wellbeing resources' (with a person icon), 'Employee Risk Assessment information' (with a clipboard icon), 'NHSE Coronavirus guidance for clinicians & NHS manag' (with an external link icon), 'gov.uk Guidance for Healthcare Professionals' (with an external link icon), 'Oxygen Use Dashboard' (with a dashboard icon), and 'SOP for the management of Oxygen' (with a document icon).

## Useful documents



### [Clinical Information and Covid-19-specific guidelines](#)

Guidance modified for use in Barnsley Hospital, or not available in the NHS England document library.



### [HR and Occupational Health](#)

Staff and manager guidance and forms relating to employment and wellbeing.

## Oxygen Alarm Information

Pre Alarm	High Limit SP 1150	Low Limit SP 1100	Alarm State Inactive
Emergency Alarm	1300	1200	Inactive

## Oxygen Total Supply



	Today Live	Yesterday 24 Hr	2 Days Ago 24 Hr
Maximum (Lt's/Min)	798	964	959
Minimum (Lt's/Min)	681	667	693



## 1. Escalation Thresholds and Actions

### a) GREEN STATUS - <1000 L/min Reading - via Live Telemetry via Estates

- i) At this level standard BAU processes would take place and no alarms for intervention would be raised.

### b) AMBER STATUS - 1150 L/min Reading - via Live Telemetry via Estates

- i) Amber warning alarm's in Switchboard who inform Silver Command (In Hours) if Major Incident command arrangements already established or Site Matron (Out of Hours or non-Major Incident) and escalates to Bronze and Silver On Call.
- ii) A Trust-wide email advising Consultant clinical review of all High Flow Nasal Oxygen/NIV reviewed ASAP (template outline below).
- iii) Oxygen ward round to take place at the next ward round with senior nursing and consultant representation. Confirm the Oxygen has been prescribed and target Oxygen saturation has been documented for all patients. Identification of appropriate patients for use of Oxygen concentrator machines (<5 l/pm) (\*If available)
- iv) Initiate daily oxygen meetings to include: Estates, Medical Director/DMD, Critical Care and Respiratory medics and nursing representatives
- v) Communications department initiate on-going general communication regarding oxygen usage to raise awareness (*template outline below*).



HERE

NHS England and NHS Improvement



## 2. Escalation Thresholds and Actions

### a) RED STATUS - 1300 L/min Reading - via Live Telemetry via Estates

- i) Red warning alarm's in Switchboard to escalate to Site Matron who informs On Call Estates Manager and Associate Director of Estates (BFS) to review Oxygen supply on site. Site Matron to escalate status to Bronze and Silver & Gold On Call or Silver & Gold Command if Major Incident command arrangements already established. In hours silver
- i) Silver on call/Command to initiate **immediate** Oxygen Ward Round across all wards utilising Onsite/On Call Consultant and senior nursing representation (Out of Hours - Site Matron and Acute Response Team). Review of all High Flow Nasal Oxygen/NIV and consideration of other options with senior review undertaken by Intensivist (for Critical Care) and Respiratory/GIM Consultant (medical wards) **REG on site – Consultant informed** (when off site) MR. Confirm the Oxygen has been prescribed and target Oxygen saturation has been documented for all patients. Identification of appropriate patients for use of Oxygen concentrator machines (<5 l/pm).
- ii) GOLD considerations including:
  - a) Review oxygen levels and seek support from Estates in considering condition of plant, ice build-up and availability from both the Primary and Secondary Vapour Insulated Evaporators (VIE).
  - b) Potential ED divert
  - c) Potential to re-locate patients to other hospitals
- ii) Send a Trust-wide communication regarding the current critical Oxygen status.
- iii) Consider diversion for any new Critical Care patients to neighboring Trusts.



HERE

**Please note:** At this level any further high pressure oxygen such as Airvo/Whisper Flow/Trilogy CPAPs/HFNO would risk reducing overall oxygen pressure and supply.

NHS England and NHS Improvement



# Barnsley Hospital – Nov 2020



# UHNM – 19-11-2020



Customer	State	Tank	LBSHELL			Inventory (MT)			Consumption (Nm3/hr)					Design Flowrate Product Vaporisers (Nm3/hr)	Ratio (Actual/design)			
			Demand Type	Converted Forecast Usage Rate (Nm3/hr)	Converted Override Usage Rate (Nm3/hr)	Ship to #	Actual	%	Time Stamp	Liquid Consumption Value	3 hr avg	8 hr avg	24 hr avg		72 hr avg	Current	8 hr avg	24 hr avg
UNIVERSITY HOSPITAL OF NORTH MIDS	STOKE ON TRENT	G-50KL029 - F TANK-MLX		109.98	109.98	811256	41.19	872020-11-17T06:29:00	112.076	108.57	109.07	110.91	109.90	180	62.26	60.60	61.62	61.06

Customer	Inventory (MT)			Consumption (Nm3/hr)		
	%	Time Stamp	History (72 hr)	Last @ TimeStamp	History (7 days) (24 hr avg)	3 hr avg
HULL ROYAL INFIRMARY	79	06:57		112.076		95.73
ROYAL BOLTON HOSPITAL	98	07:05		112.076		77.05
SOUTHMEAD HOSPITAL PFI	65	06:31		42.028		56.04
NORTH MANCHESTER GENERAL HOSPITAL	86	06:25		56.038		56.04
ROYAL ALBERT EDWARD INFIRMARY	65	06:53		77.052		60.71
UNIVERSITY HOSPITAL OF NORTH	87	06:29		112.076		108.57

## Oxygen Usage Wave 2 - midday readings

