



STANDARD OPERATING PROCEDURE DIGITAL NATIONAL EARLY WARNING SCORE ON SYSTMONE (NEWS2)

Document Reference	SOP22-010
Version Number	1.1
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Date Instigated:	June 2022
Date Last Reviewed:	18 April 2024
Date of Next Review:	April 2027
Consultation:	Ward Manager / Band 6s Paul Warwick, Clinical System Risk Assessment
Approved by:	Community Clinical Network Group 18 April 2024
Name of Trust Strategy / Policy / Guidelines this SOP refers to:	Deteriorating Patient Policy / Protocol

CHANGE RECORD

Version	Date	Change details
1.0	14 June 2022	<i>New SOP – Approved PHMD Group (14 June 2022).</i>
1.1	18 April 2024	<i>Reviewed – Minimal changes to first page. Approved at Community Clinical Network Group (18 April 2024).</i>

Contents

Contents

1	INTRODUCTION	3
2	PURPOSE & SCOPE	3
3	DUTIES AND RESPONSIBILITIES	3
4	PROCEDURE	5
5	MONITORING COMPLIANCE AND EFFECTIVENESS	5
	Appendix A - SystemOne Community Hospital Inpatients – NEWS2 Observations .	6

1 INTRODUCTION

The digital National Early Warning Score (NEWS2) chart was developed in parallel to support the transition from the paper NEWS2 charts to a fully digital system. The objective was to mirror the official NEWS2 chart enable users to make the switch seamlessly and minimise the risk to patients.

This SOP will be used across all Community service inpatient units within Humber Teaching NHS Foundation Trust. It includes both registered and unregistered staff that are permanent, temporary, bank and agency staff on commencement of working within the community services inpatient units.

2 PURPOSE & SCOPE

This SOP explains the process to follow when using the NEWS2 template on SystemOne to ensure continuity of observations and promote patient safety (See appendix 1). (NEWS 2 is commonly used for the assessment of unwell patients – A NEWS score of 5 or more is the key trigger threshold for urgent clinical review and action or a score of 3 in any one parameter as early intervention can reduce mortality in unwell individuals (NICE 2007) Royal College of Physicians 2017.

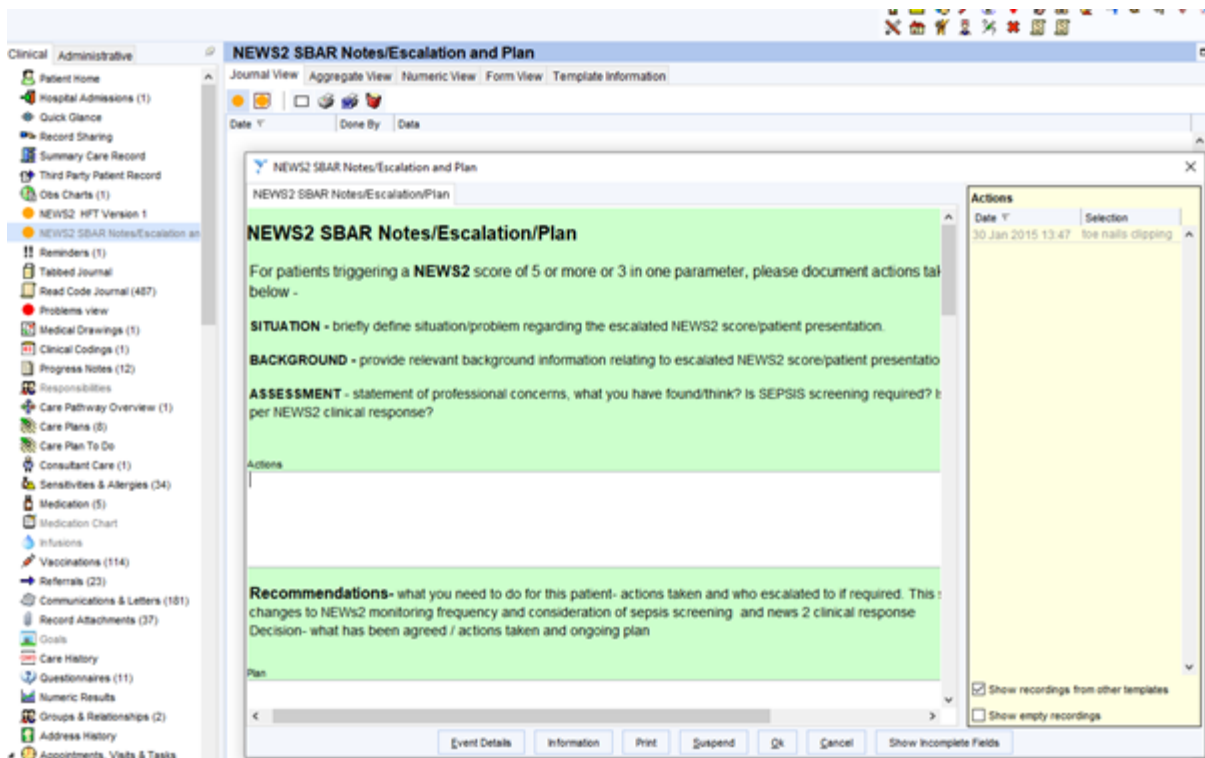
This procedure should be read in conjunction with- Deteriorating Patient Policy (including the Recognition and Escalation of Suspected Sepsis) (N-062) and protocol 527. The template captures clinical data on an electronic device in real-time at the point of care. It enables analysis and charting of the captured clinical data on the patients SystemOne notes. It improves the safety of identifying the deteriorating patient. It is designed to improve the daily clinical processes of observation-taking, early warning scoring and appropriate timely escalation, alongside improving timely documentation.

3 DUTIES AND RESPONSIBILITIES

Service Managers, Modern Matrons and appropriate clinical/ professional leads will ensure dissemination and implementation of the Local SOP within the sphere of their responsibility. They should also ensure staff are supported in attending relevant training and that time is dedicated to the provision and uptake of training and sign off competencies. (Competencies: Vital signs monitoring, NEWS2 and Sepsis)

Matrons/Service managers//Ward Managers have responsibility for ensuring the quality of clinical interventions and record keeping by their staff, and monitoring compliance with this local SOP and procedure through the supervision process.

All relevant clinical staff working in the inpatient setting will familiarise themselves and follow the agreed SOP and associated guidance and competency documents. They will use approved documentation on SystemOne as seen on next page.



They will make their line managers aware of barriers to implementation and completion.

Registered Practitioners are responsible for:

- Determining the frequency of patient observations
- Accurate recording and documentation of patient observations on systemOne
- The registered practitioner in-charge of the clinical area must ensure that staff recording patient observations report NEWS2 scores to a senior member of staff
- Appropriate documentation to be completed when observations fall within the trigger area for a response due to physiological changes.
- Ensuring they have completed e-learning provided by the informatics systems team.-
- Ensuring they have passed clinical competencies for the deteriorating patient

Unregistered clinical staff are responsible for:-

- Responsible for accurate recording and documentation of patient observations, NEWS2 score and following NEWS2 graded response. They must also inform the registered practitioner of each individual patients NEWS2 score above 0.
- Ensure they have completed e-learning provided by the digital team
- Ensure they have passed clinical competencies for the deteriorating patient.

Medical staff are responsible for:

Responding to calls by practitioners to review a patient’s clinical condition according to NEWS2 graded response and (rarely, i.e. end of life situations) authorising the discontinuation of NEWS2, making ‘do not attempt cardiopulmonary resuscitation’ (DNACPR) decisions (if appropriate) and initiating end of life care pathway (if appropriate).

4 PROCEDURE

Recording of Observations:

Each patient must have a set of standard observations taken regularly, as dictated by their clinical condition. These consist of pulse rate, temperature, blood pressure, respiratory rate, conscious level (ACVPU score), oxygen saturation (SpO₂).

When all parameters are entered into systemOne on the NEWS2 tool the NEWS2 score will be automatically calculated by the system using the individual scores for temperature, pulse rate, respiration rate, blood pressure, oxygen saturation, supplemental oxygen needs and conscious level (ACVPU score). The tool has a dedicated section (SpO₂ Scale 2) for use in patients with hypercapnic respiratory failure (usually due to COPD) who have clinically recommended oxygen saturation of 88–92%.

The NEWS2 score assists in the identification of deteriorating patients by tracking physiological observations. The importance of considering serious sepsis in patients with known or suspected infection, or at risk of infection, is emphasised.

5 MONITORING COMPLIANCE AND EFFECTIVENESS

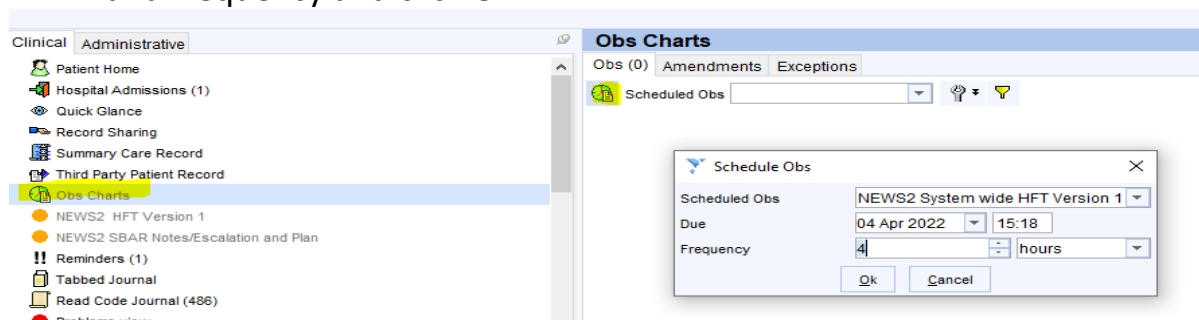
Processes of audit and monitoring effectiveness of the policy will be performed by local audit of compliance within community hospitals

Reproduced from: Royal College of Physicians. National Early Warning Score (NEWS) 2: Standardising the assessment of acute-illness severity in the NHS. Updated report of a working party. London: RCP, 2017

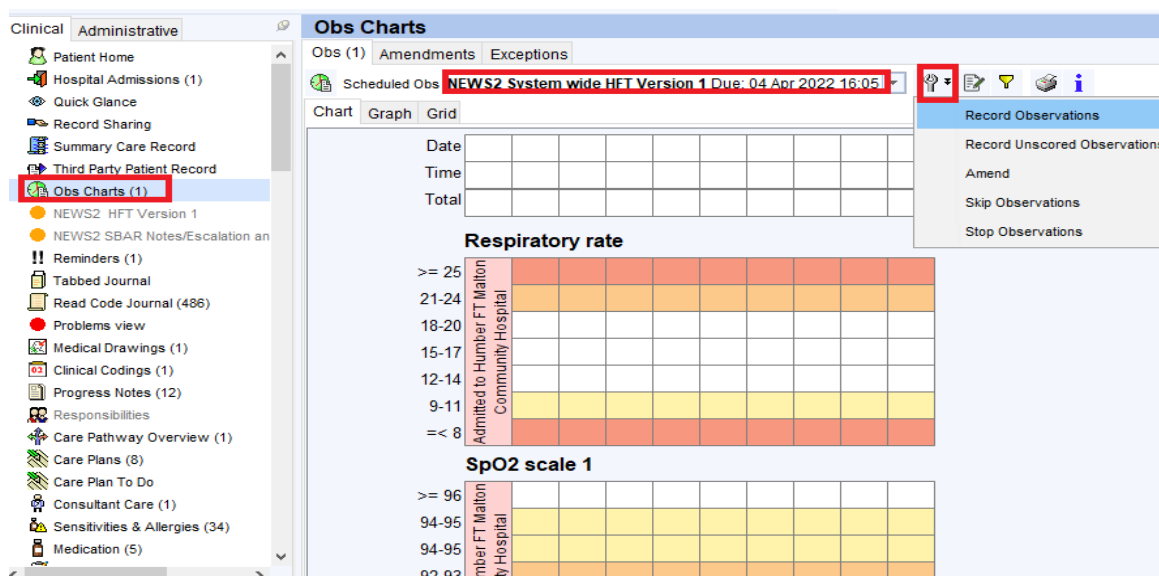
Appendix A - SystmOne Community Hospital Inpatients – NEWS2 Observations

New patient on NEWS2

1. Select Obs Chart from Clinical Tree at the bed side of the patient.
2. Click Scheduled Obs Icon and complete scheduled obs, due date and time and frequency and click OK



The scheduled OBS will now show with the due date and time and a blank chart is generated ready for use. There is a toolbar to the right hand side as per the screen prints below – click on **Spanner icon** to see the options available or Click Record OBSERVATIONS icon to record observations now



The NEWS2 template is opened – Please note: you will not see the final score until you have finished recording the template and receive warnings or the score when complete.

NEWS2 HFT Version 1

A + B

NATIONAL EARLY WARNING SCORE (NEWS2)

A + B

Respiratory rate breath/min

Physiological parameter	3	2	1	Score 0	1	2	3
Respiration rate (per minute)	≤8		9-11	12-20		21-24	≥25

SpO2 on Air %

Physiological parameter	3	2	1	Score 0	1	2	3
SpO ₂ Scale 1(%)	≤91	92-93	94-95	≥96			
Air or oxygen?		Oxygen		Air			

Use Scale 2 if target SpO2 range is 88-92%, e.g. in hypercapnic respiratory failure.

****ONLY use Scale 2 under the direction of a qualified clinician****

NEWS2 SpO2 Scale view cannot be shown when previewing a template

*NEWS2 SpO2 Scale

SpO2 on Oxygen %

Physiological parameter	3	2	1	Score 0	1	2	3
SpO ₂ Scale 2(%)	≤83	84-85	86-87	88-92 ≥93 on air	93-94 on oxygen	95-96 on oxygen	≥97 on oxygen

*Delivered oxygen flow rate L/min

Oxygen device

- Nasal cannula
- Non-invasive ventilation
- HOME CPAP
- Venturi Mask
- Humidified O2
- Reservoir Mask
- Tracheostomy mask

Inspired oxygen concentration %

NEWS2 HFT Version 1

A + B

BP & PULSE

Pulse Rate

Pulse rate bpm

Physiological parameter	3	2	1	Score 0	1	2	3
Pulse (per minute)	≤40		41-50	51-90	91-110	111-130	≥131

BP mmHg

Physiological parameter	3	2	1	Score 0	1	2	3
Systolic blood pressure (mmHg)	≤90	91-100	101-110	111-219			≥220

Sitting BP

Sitting BP mmHg

Lying BP

Lying BP mmHg

Standing BP

Standing BP mmHg

CONSCIOUSNESS

Conscious level

Physiological parameter	3	2	1	Score 0	1	2	3
Consciousness				Alert			CVFU

Information Print Suspend Ok Cancel Show Incomplete Fields

Respiratory rate

Date breath/...

No previous values

Show recordings from other templates

Show empty recordings

parameter	3	2	1	0	1	2	3
Temperature (°C)	≤35.0		35.1–36.0	36.1–38.0	38.1–39.0	≥39.1	

Temperature degC

Unscored News Fields

Pain at rest

- Severe pain at rest (Y1da3)
- Moderate pain at rest (Y1da4)
- Mild pain at rest (Y1da5)
- No pain at rest (Y1da6)

Pain on movement

- Severe pain on movement (Y1da8)
- Moderate pain on movement (Y1da9)
- Mild pain on movement (Y1daa)
- No pain on movement (Y1dab)

Level of sedation

- Level of sedation: Unresponsive (Y1dad)
- Level of sedation: Responds to painful stimuli (Y1dae)
- Level of sedation: Responds to verbal command (Y1daf)
- Level of sedation: Awake and responsive (Y1db0)

Level of nausea

- Level of nausea: Vomited (Y1db2)
- Level of nausea: Moderate (Y1db3)
- Level of nausea: Mild (Y1db4)
- Level of nausea: No nausea (Y1db5)

Level of motor block

- Level of Motor Block: Unable to move limbs (Y1db7)
- Level of Motor Block: Able to wiggle toes / unable to bend knee...
- Level of Motor Block: Able to bend knees / unable to lift legs (Y...
- Level of Motor Block: No motor block / able to lift legs (Y1dba)

Remember to complete the NEWS2/SBAR Notes, Escalation and Plan Template

Information Print Suspend Ok Cancel Show Incomplete Fields

The Outcome is displayed – you can amend frequency and reason for amending now or you can amend later when you have discussed with registered nurse or medical staff. Escalation guidance can be viewed here as can the history.

4

NEWS2 System wide HFT Version 1

LOW NEWS2 SCORE (1-4), patient to be assessed by a registered nurse or medical staff, who should decide whether a change to frequency of clinical monitoring or an escalation of clinical care is required and documented.

Scheduled Obs: NEWS2 System wide HFT Version 1

Due: 04 Apr 2022 20:05

Frequency: 4 hours

Reason For Amending: [Search]

Buttons: Ok, Cancel, Escalation Guidance, View History

The NEWS 2 score and date and time of observation is now visible above the chart which has populated with the NEWS2 Score

Clinical Administrative

- Patient Home
- Hospital Admissions (1)
- Quick Glance
- Record Sharing
- Summary Care Record
- Third Party Patient Record
- Obs Charts (1)**
- NEWS2 HFT Version 1
- NEWS2 SBAR Notes/Escalation an
- Reminders (1)
- Tabbed Journal
- Read Code Journal (487)
- Problems view
- Medical Drawings (1)
- Clinical Codings (1)
- Progress Notes (12)
- Responsibilities
- Care Pathway Overview (1)

Obs Charts

Obs (1) Amendments Exceptions

Scheduled Obs **NEWS2 System wide HFT Version 1** Due: 04 Apr 2022 20:05

Chart Graph Grid

Date	09/07	05/02	04/04						
Time	09:30	14:30	16:05						
Total			4						

Respiratory rate

>= 25	Admitted to Humber FT Malton								
21-24	Community Hospital								
18-20		18*	18						
15-17									
12-14									
9-11									
<= 8									

The NEWS2 will be displayed in the tabbed journal

04 Apr 2022 16:05 - Ward: BELLARD, Karen (Systems Support Access Role)

KD ✓ Scheduled Obs Performed: NEWS2 System wide HFT Version 1 - Score: 4

BP 120 / 80 mmHg

Peripheral blood oxygen saturation on room air at rest (Xaa6j) 80 %

Respiratory rate (X774f) 18 breath/min

NEWS2 SpO2 Scale 1 (Y1d35)

O/E - fully conscious (2231.)

O/E - temperature (XaBzA) 36 degC

Pulse rate (X773s) 72 bpm

You must SAVE the record – once the record is saved the NEWS2 score will be visible on the Ward View

Overdue medication flags updated at

Room 7 Cropton

Bed 2

Dr C R Forrester
General Internal Med
Mickey Mouse-Test
ED: 21 Apr 2022
LS: 1y 38wks

To Do List

NEWS2 System wid

Score	Due
4	04 Apr 20:05

For patients triggering a NEWS2 score of 5 or more or 3 in one parameter, you must document your actions and plan and escalation etc. using the NEWS2 and SBAR Notes/Escalation/Plan Template so that all relevant information is recorded.

