



**Western
Sussex
Hospitals
NHS
Foundation
Trust**

Introducing Outcome Measures
for Home Enteral Feeding
(HEF) Patients in Chichester

Background

- Extended role since 2000/2001
 - Repair & replacement of tube parts
 - Unblocking tubes
 - Removing and replacing tubes
 - Stoma care
- Other teams within department introduced outcome measures
- Struggled to find a suitable approach to measure tube and stoma related outcomes in addition to traditional nutrition parameters

Aims and Objectives

- Aim
 - To investigate a method of demonstrating the effectiveness of the extended role of the HEF team
- Objectives
 - Design data capture form
 - Identify specific goals
 - Score goals at each review
 - Re-evaluate and modify data capture form based on results
 - Incorporate final form into routine practice
 - Monitor and report results annually

Method

- Data capture form designed based on existing outcome tool from University Hospitals Bristol NHS Trust
- Data capture form placed in front of all new HEF patients notes (January – September 2015)
- Nine month trial period chosen to maximise the number of patients with at least two official 3 monthly reviews
- Specific goals were selected at the first visit and reviewed and scored as many times as appropriate
- Average scores calculated which gave an improvement percentage

Data Capture Form

HEF Outcome Measures – Trial

Patient Name: _____ **D.o.B:** _____ **Hospital Number:** _____ **NHS Number:** _____
Diagnosis/Reason for HEF: _____
Type of HEF NGT NJT PEG Replacement G-Tube Button JEJ PEG-J Other _____
Date initial tube inserted: _____ **Date current tube inserted:** _____ **Current feed:** _____
Scores: -1 (worse) 0 (same) 1 (partly met) 2 (fully met)

Date Goal Set	Date of Contact													
	Goal(s) – Please circle	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	Average Overall Score
	Improve quality of life													
	Maintain nutritional status													
	Increase weight													
	Decrease weight													
	Improve feed tolerance													
	Maintain skin integrity													
	Improve skin integrity													
	Maintain tube functionality													
	Improve symptom control													

Scoring

Score	Definition
2	Goal fully met
1	Goal partially met
0	Goal not met but situation did not worsen
-1	Goal not met, situation worsened

Data Capture Form

HEF Outcome Measures – Trial

Patient Name: **A Patient**

D.o.B: **01/02/34**

Hospital Number: **123456**

NHS Number: **012 345 6789**

Diagnosis/Reason for HEF: **CVA**

Type of HEF NGT NJT **PEG** Replacement G-Tube Button JEJ PEG-J Other _____

Date initial tube inserted: **01/01/15**

Date current tube inserted:

Current feed: **Nutrison Energy Multifibre**

Scores:	-1 (worse)	0 (same)	1 (partly met)	2 (fully met)
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Date Goal Set	Date of Contact	28.3.15	1.4.15												Average Overall Score
	Goal(s) – Please circle	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	
	Improve quality of life														
	Maintain nutritional status														
	Increase weight														
28.2.15	Decrease weight	1													
	Improve feed tolerance														
28.2.15	Maintain skin integrity	2													
	Improve skin integrity														
28.2.15	Maintain tube functionality	2	-1												
	Improve symptom control														

Results

Overall Scores for each Goal									
Score	Improve Quality of Life	Maintain Nutritional Status	Increase Weight	Decrease Weight	Improve Feed Tolerance	Maintain Skin Integrity	Improve Skin Integrity	Maintain Tube Functionality	Improve Symptom Control
2	2	15	3	0	6	20	4	41	2
1	3	3	1	0	1	2	1	1	0
0	0	0	1	0	1	1	1	2	2
-1	1	1	1	0	0	0	0	2	1
Number of times goal set	6	19	6	0	8	23	6	46	5
Average Score	1.00	1.68	1.00	0.00	1.63	1.83	1.17	1.76	0.60
% Improved	83%	95%	67%	0	88%	96%	83%	91%	40%

Discussion

- 23 out of a possible 30 new patients included
- Fully met and partially met goals could be assessed in addition to deterioration
- Modified form after trial including addition of comments box
- Devised full definition list of how to score on back of form
- Demonstrated clinical effectiveness in extended role with maintaining tube functionality achieved 91% of time

Data Capture Form 2

HEF Outcome Measures – Trial

Patient Name: _____ **D.o.B:** _____ **Hospital Number:** _____ **NHS Number:** _____
Diagnosis/Reason for HEF: _____
Type of HEF NGT NJT PEG Replacement G-Tube Button JEJ PEG-J Other _____
Date initial tube inserted: _____ **Date current tube inserted:** _____ **Current feed:** _____

Date Goal Set	Date of Contact	Score (+/- comments)	Score (+/- comments)	Score (+/- comments)	Score (+/- comments)	Score (+/- comments)	Score (+/- comments)	Score (+/- comments)	Score (+/- comments)	Average Overall Score
	Goal(s) – Please circle									
	Improve quality of life									
	Maintain nutritional status									
	Increase weight									
	Decrease weight									
	Improve feed tolerance									
	Preserve stoma integrity									
	Improve skin integrity									
	Preserve tube functionality									
	Improve symptom control									
	Other – please specify									
	Other – please specify									

Definitions for scoring

Definition of Goal Scores

Improvement in Quality of Life:

- 2: On asking, the patient felt their QOL had been improved “significantly”
- 1: On asking, the patient felt their QOL had been improved “a little”
- 0: On asking, the patient felt their QOL had “remained the same”
- 1: On asking, the patient felt their QOL had “deteriorated”

Maintain Nutritional Status:

- 2: Patient’s nutritional status remained the same (e.g. intake, anthropometrics, bloods)
- 1: Patient’s nutritional status declined slightly due to explained short term issue, but expected to return to status quo quickly
- 0: Patient’s nutritional status declined (e.g. intake, anthropometrics, bloods) and likely that new goals need to be set
- 1: Patient’s nutritional status declined (e.g. intake, anthropometrics, bloods) and likely that new goals need to be set

Increase Weight:

- 2: Patient’s weight increased by stated amount
- 1: Patient’s weight increased but not as much as stated amount
- 0: Patient’s weight remained the same
- 1: Patient’s weight decreased

Decrease Weight:

- 2: Patient’s weight decreased by stated amount
- 1: Patient’s weight decreased but not as much as stated amount
- 0: Patient’s weight remained the same
- 1: Patient’s weight increased

Improve Feed Tolerance:

- 2: Patient’s symptom of intolerance e.g. diarrhoea completely resolved
- 1: Patient’s symptom of intolerance e.g. diarrhoea improved i.e. less volume, less frequent
- 0: Patient’s symptom of intolerance remained the same
- 1: Patient’s symptom of intolerance became worse

Definitions for scoring

Preserve Stoma Site:

- 2: Patient's stoma site in text book condition
- 1: Patient's stoma site in acceptable condition
- 0:
- 1: Patient's stoma site became more problematic

Preserve Tube Functionality:

- 2: Patient's tube in full working order without outside assistance
- 1: Patient needed outside agency help to restore tube to full working order, but no hospital admission
- 0:
- 1: Patient required hospital admission

Improve Symptom Control:

- 2: Patient's symptoms fully resolved
- 1: Patient's symptoms partly resolved
- 0: Patient's symptoms remain the same
- 1: Patient's symptoms worsened

Other: _____

- 2: _____
- 1: _____
- 0: _____
- 1: _____

No Outcome Score:

- RIP: Patient passed away
- Tx: Patient care transferred

The Future

- Data capture form to be finalised
- Scoring definitions to be further reviewed
- Rolled out for use by all HEF dietitians across the Trust
- Report results annually



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Thank you for listening

Any questions?