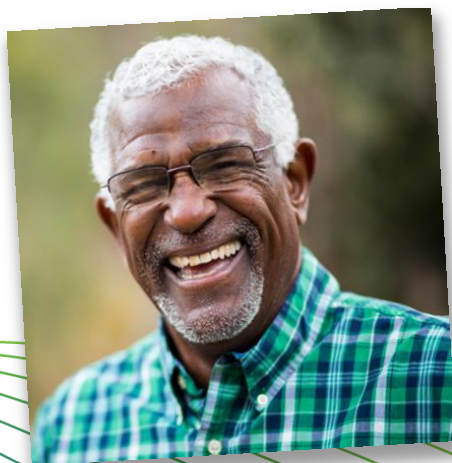


NHS RightCare scenario: **The variation between sub-optimal and optimal pathways**



Rob's story: Sepsis
Summary slide pack

June 2018
Gateway reference 07876

Rob's story

This is the story of Rob's experience of a sepsis care pathway, and how it could be so much better

In this scenario we examine a sepsis care pathway, comparing a sub-optimal but typical scenario against an ideal pathway.

1

At each stage we have modelled the costs of care, financially to the commissioner, and also the impact on the person and their family's outcomes and experience.

2

It shows how the NHS RightCare methodology can help clinicians and commissioners improve the value and outcomes of the care pathway.

4

3

This document is intended to help commissioners and providers to understand the implications – both in terms of quality of life and costs – of shifting the care pathway

Rob and the sub-optimal pathway

Day 9 - Post operation - cough	Dry cough, mild fever, no real concerns with family as there is a “bug going around”.
Day 14 – Cough persisting	Family now concerned as Rob has not been eating and feels “fluey”. GP contacted.
Day 14 – GP tel. consultation	GP suspects viral bronchitis - should resolve itself. Call back if no better or if it gets worse.
Day 16 – Concern and GP appt	Family are now very concerned as Rob is breathless and vomiting. GP surgery arrange for an afternoon appt. GP is shocked by Rob’s condition and calls for an ambulance. After three hours waiting GP calls 999 for a blue light response.
Day 16 – Ambulance	Double technician ambulance crew arrive and take Rob to the surgical assessment unit where he is “a bit slow to respond”.
Day 16 – Ward admission	Not “handed over” to staff and the GP observations are missing.
Day 16 - Observations	Baseline observations done by HCA. NEWS score calculated and oxygen given. Junior doctor alerted but the registrar is busy. Later the junior doctor administers stat bolus 500ml of glucose 5% over five minutes but the cause is still unclear.
Day 16 – Serious deterioration	Mental state is deteriorating and the registrar suspects pneumonia. Rob is now breathless, shocked and close to collapse. ICU ventilate, give antibiotics, fluid resuscitation and inotropes over a five day period.
Day 27 – Discharged home	After a further stay in the General Medical Ward Rob is discharged home.
Day 29 – GP follow-up	Rob is struggling to walk and needs a stick. His memory is poor and he still has a persistent cough and is still breathless.
Day 90 – Limited recovery	Rob can now undertake small amounts of activity but needs frequent rest. His sleep is disturbed and his moods are low with disturbing flashbacks on a regular basis. His family are seriously concerned about Rob’s mental health; the whole family are feeling the strain.
Day 100 – Legal action	The family write a formal letter of complaint to the GP threatening legal action.

Rob and the sub-optimal pathway

Insufficient education

- Operation discharge
- Patient awareness
- GP reception

A lack of understanding and urgency

Poor communication

- Observations not tracked
- Poor handovers
- Deterioration not tracked

Lack of common language

Long term consequences

- Serious implications
- Family distress
- Legal challenge

Costly in terms of outcomes and £s

Questions for GPs and commissioners

In the local population, who has overall responsibility for:

1

Promoting the use of NEWS2 across the whole care pathway including within the community as well as all hospitals in your areas?

2

Promoting sepsis as a condition for which targeted interventions must be planned and delivered?

3

Ensuring timely referral, communication and action throughout the pathway?

4

Identifying and reporting on measurable positive and negative sepsis associated outcomes?

5

Planning care models to address key stages of sepsis diagnosis and intervention escalation?

6

Evaluating any existing engagement activity that has already taken place with patients with regards to sepsis?

7

Understanding how this local data could be used to identify and drive improvements?

The levels of NEWS2 scores and associated risk



RightCare

Date	Time		Clinical concern	NEWS
14 days pre admission		Post op discharge	Low	Unknown
2 days pre admission		GP call	Low	Unknown
Admission day 1	1545	GP appointment	High	Unknown
	2015	Ambulance	High	Unknown
	2048	SAU arrival	High	Unknown
	2200	Surgical review	High	Unknown
	2300	Medical review	High	Unknown
	2330	ICU	High	Unknown
Admission day 12		Discharge	Low	Unknown

Sub-optimal case

Date	Time		Clinical concern	NEWS2
14 days pre admission		Post op discharge	Low	0
2 days pre admission		First GP appointment	Medium	Not calculated
Admission day 1	0900	Second GP appointment	High	10
	0930	Ambulance	Very High	13
	1000	ED Resus	Extreme	14
	1100	ED Resus	Extreme	12
	1200	ED Resus	Extreme	15
Admission Day 2		HDU	High	10
Admission Day 3		Ward	Medium	3

Optimal case

Rob and the optimal pathway

Day 9 – Post operation-cough	Dry cough, mild fever, no real concerns with family as there is a “bug going around”.
Day 14 – Cough persisting	Family now concerned as Rob has not been eating and feels “fluey”. GP contacted as aware of Thromboembolism and sepsis from the hospital discharge information post surgery.
Day 14 – GP tel. consultation	Receptionist notes ‘sepsis’ language from the family and arranges emergency GP appt. GP records vital stats and provides leaflet – doesn’t justify antibiotics at this stage.
Day 16 – Concern and GP appt.	Family are now very concerned as Rob is breathless and vomiting. Surgery advises to come in immediately. GP is concerned by Rob’s condition and calls the medical admissions team and ambulance with a NEWS score of 10 and “sepsis suspected”, plus prepares a detailed letter with deterioration information for the ambulance crew.
Day 16 – Ambulance and A&E	Ambulance crew with paramedic arrive and take Rob to the Emergency Unit . He then receives the sepsis six and has a chest X-ray, plus contact with the ITU outreach team who agree HDU admission is required – antibiotics administered.
Day 17 – Ward admission	Moved to General Medical Ward after one day in HDU.
Day 18 - Observations	Rob is now looking well enough for discharge – antibiotics reviewed and changed.
Day 19 – Discharge	Discharged home with discharge summary (sepsis and pneumonia) and anticipated recovery path.
Day 20 – GP follow-up	GP explains what recovery will be like and arranges vaccination in the near future – the family are very grateful for the GP’s prompt action.
Day 90 – Recovery	Pneumonia has completely resolved and Rob has just returned from a family wedding and a three week holiday in Trinidad.
Day 100 – GP practice reflection	The practice undertakes an SEA review of the case and recognises the value of a sepsis aware practice and the use of physiology and communication to improve patient outcomes.

Rob and the optimal pathway

Planned education

- Patient at discharge
- GP reception
- All clinicians in pathway

Deterioration
focus and
urgency

Thoughtful communication

- Observations logging
- Quality handovers
- Proactive communication

NEWS2
common
language

Positive outcome

- Back on feet very quickly
- Family are thankful
- Maintains a normal life

Significant
savings -
distress and £s

Financial information

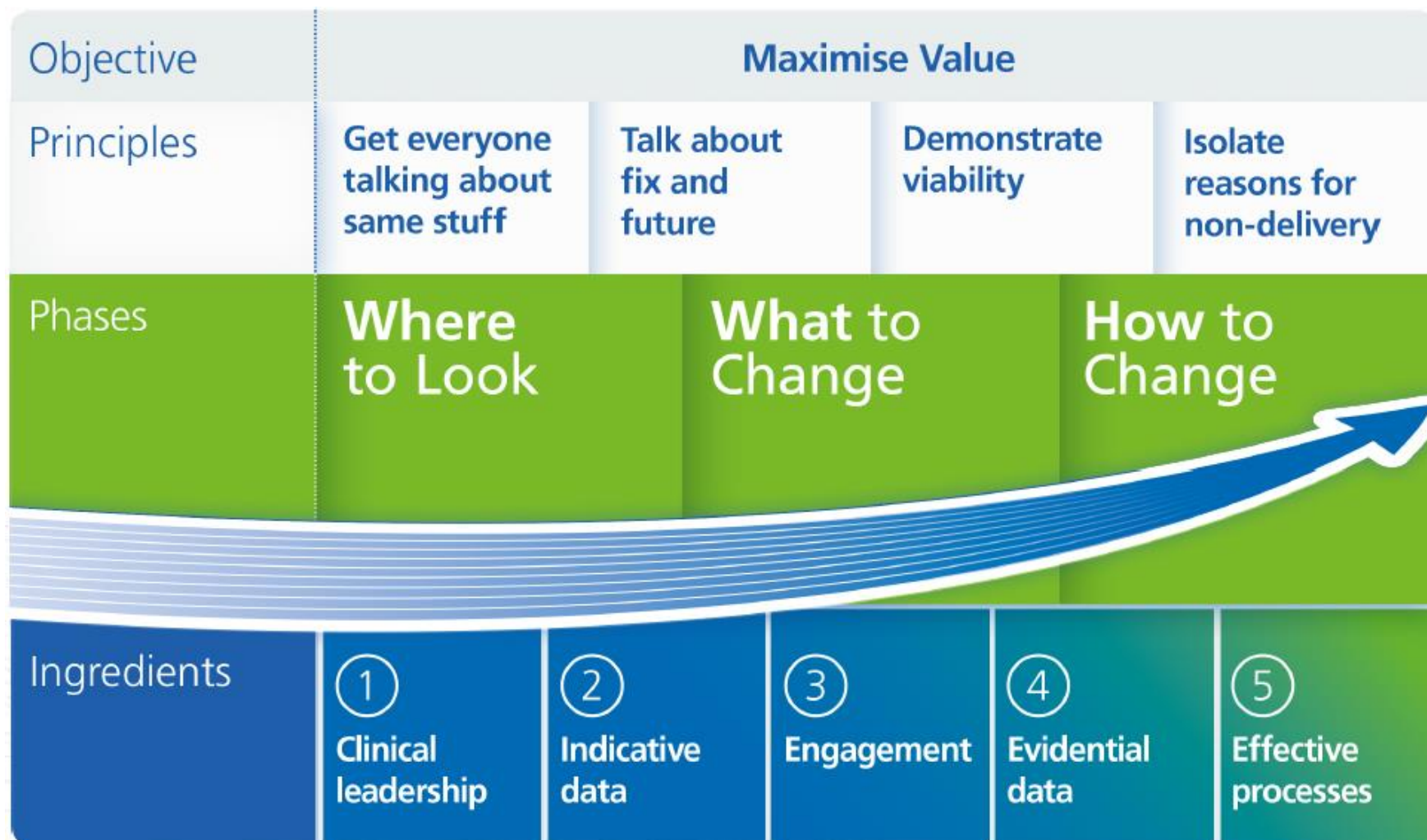
Analysis by Cost Category	Sub-optimal	Optimal	Optimal %
Primary care management	£238	£451	190%
Urgent and Emergency care	£247	£247	100%
Secondary care management	£7,518	£2,318	31%
Grand total	£8,003	£3,016	38%

The key improvement is due to prompt diagnosis and good communication between healthcare professionals which results in prompt administration of antibiotics. This significantly reduces the volume and type of bed days in hospital from 11 days, including five in ICU, in the suboptimal case down to four days, with one in ICU, in the optimal case.

Primary care then invests much more significantly in post sepsis aftercare with practice visits every two weeks for the first three months after hospital discharge. Close monitoring post-sepsis is very important. This shift in focus represents improved value for money, better use of healthcare resources and most importantly a significant improvement in Rob's clinical outcome and quality of life.

NB: Please refer to the detailed scenario for data and financial analysis details and caveats.

The NHS RightCare approach



Further information

For more information about Rob's journey, NHS RightCare or the sepsis programme you can:

Email:

- rightcare@nhs.net
- england.clinicalpolicy@nhs.net

Visit:

- www.england.nhs.uk/rightcare
- www.england.nhs.uk/?s=sepsis

Tweet:

- [@NHSRightCare](https://twitter.com/NHSRightCare)

Please note: Appendices to support the main scenario document and the PowerPoint summaries can be found at <https://www.england.nhs.uk/rightcare/products/ltc/sepsis-scenario/>