

Decisions to refer and admit to  
intensive care :  
improving quality and process

# Why does it need improving?

- For the patient these are life and death decisions
- They are often made in circumstances where there is limited time and uncertainty of outcome
- There is evidence of substantial variation in how these decisions are made
- There are no nationally used guidelines
- There is little in the way of training for clinicians making these decisions

# Why is it difficult?

## Intensive Care

- Potentially life-saving
- Harms
  - Procedures
  - therapies
  - Critical illness
- Measure of success?
  - Survival
  - Functional survival
  - Quality survival



# Decision-making

- A decision to refer or admit/not admit to ICU is a decision about whether to withhold a potentially life sustaining treatment
- Clinical component what *can* we do?
- Ethical component what *should* we do?
- Both need justification

# Addressing the problem: NIHR funded project to look at process of decision making

Systematic reviews

Observational study

Questionnaire Study –  
(ICU consultants and outreach nurses)

Funded by

**NIHR**

# Systematic review

## Factors affecting decisions to admit to ICU

### Patient related

- Current functional status / quality of life
- Patient age
- Presence of chronic illness
- Patient preference
- Family preference
- Gender

### Clinician/organisation related

- Seniority of clinician
- Prognostic pessimism / perception of futility
- Clinician's specialty
- Patient's "specialty"
- ICU bed availability
- Advance care plan or directive
- Time of day

# Observational study

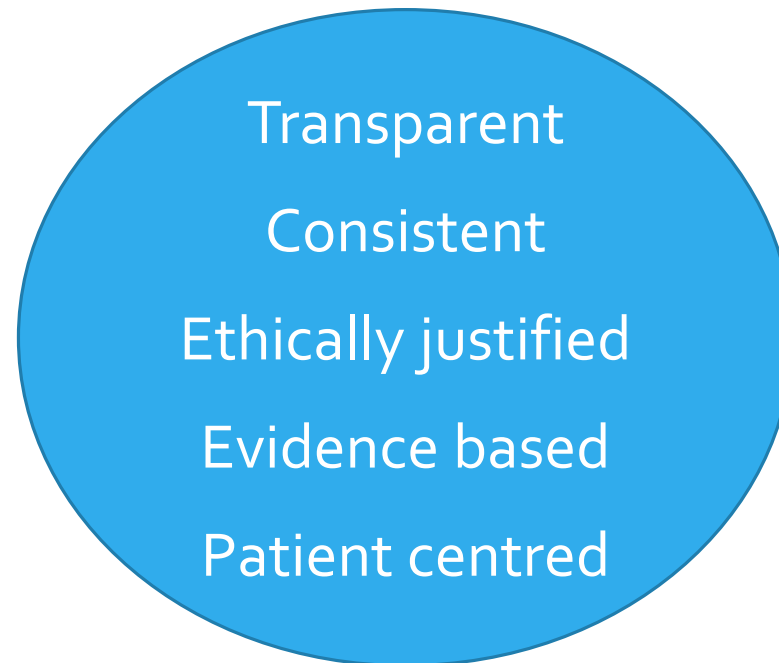
- Complex decisions
- Lack of communication/shared understanding between referral team and ICU regarding:
  - Reason for referral
  - Responsibility for ongoing care
- Little evidence of weighing factors for and against admission
- Difficulties with communicating with/involving patient's family
- Anxiety, confusion, and isolation experienced by family

# Observational study

- BUT: there were also examples of good practice to learn from



# What would a good decision making process look like?



# Why doesn't it always happen like this?

- Complicated
- No time
- Limited information available
- Outcomes are uncertain
- Unclear lines of responsibility

# How can we make it better?

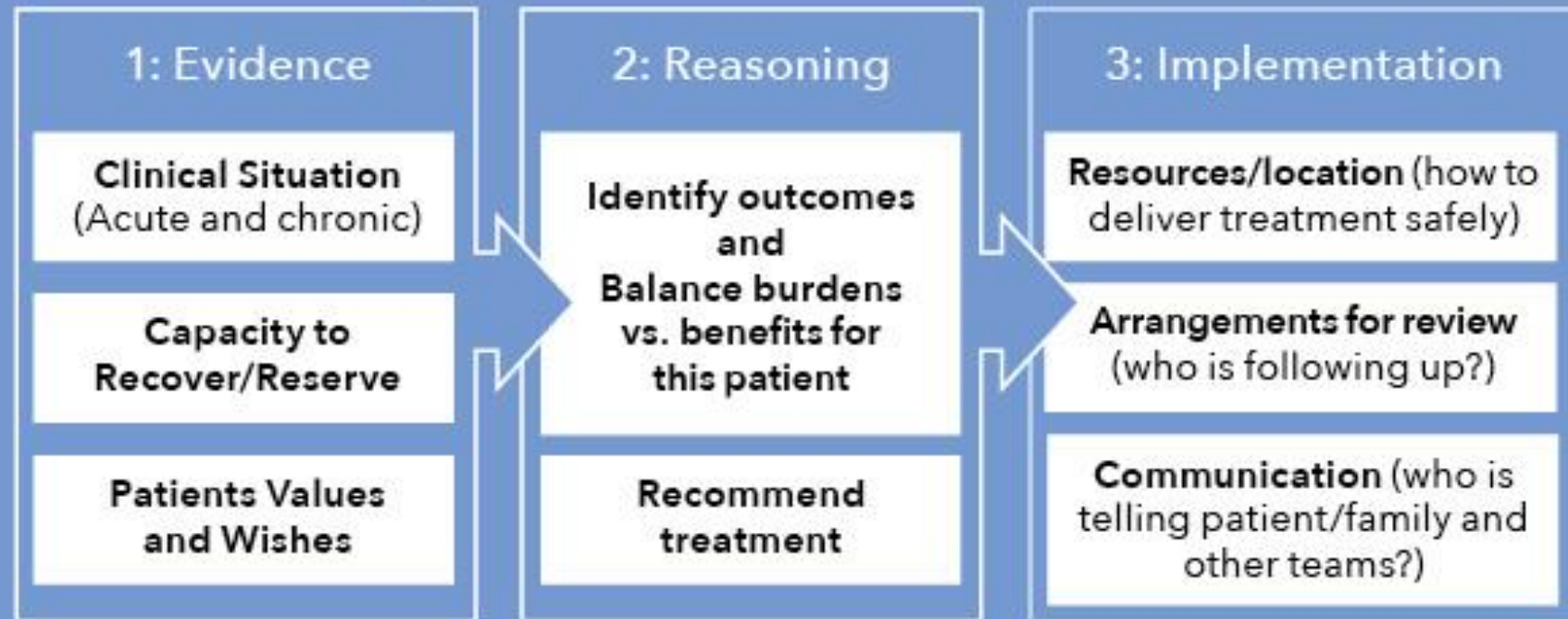
- Provide a structured framework for decision-making that:
  1. Records relevant clinical evidence and patient wishes
  2. Prompts patient centred, ethically justified decision making
  3. Guides implementation, communication, and review



WARWICK

MEDICAL SCHOOL

## Decision-making for escalation of treatment



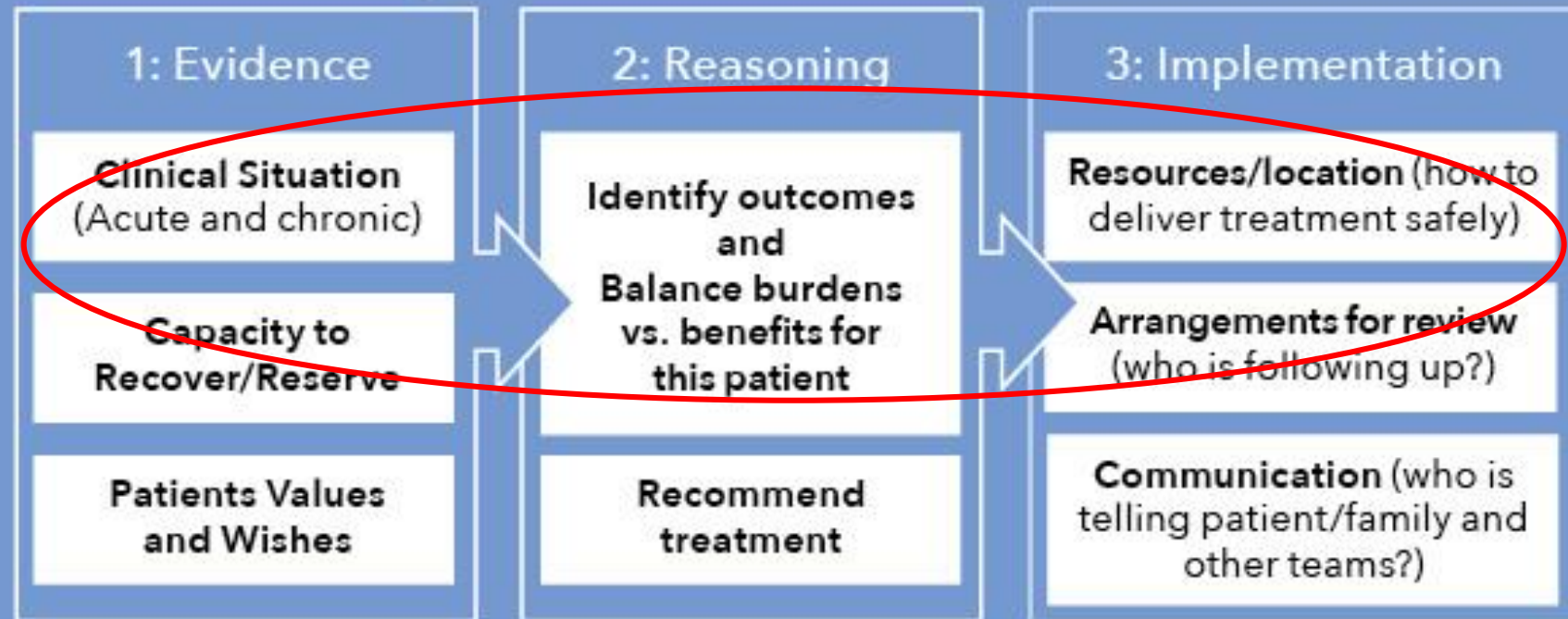
Decision-making for Intensive care unit admissions 2016. REC: 15/WM/0025



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## Decision-making for escalation of treatment



Decision-making for Intensive care unit admissions 2016. REC: 15/WM/0025

# Providing a structured framework

Affix patient sticker here

Hospital admission date: \_\_\_\_\_  
Date of assessment: \_\_\_\_\_  
Time of assessment: \_\_\_\_\_

**Critical care Referral form**

This form should be used to guide and record referral for critical care support. It is adapted from SBAR, and designed to support best practice in decision-making. It should not replace direct referrals and discussions.

**Situation:** (reason for referral)

\_\_\_\_\_

**Background:** Patient's medical history and evidence regarding ability to recover from critical illness (e.g. frailty score, trajectory of illness, physiological reserve, etc.)

\_\_\_\_\_

**Patient's values and wishes:** (What is important to the patient about extremes of their care)? Please note say ResPECT forms/advance directive. Please document reasons (if no information available).

\_\_\_\_\_

Please document source of information: (Respect, family member or someone close to patient, advance care plan etc)

\_\_\_\_\_

**Recommendation**

- LI To obtain a review to consider admission to ICU/HDU for full or limited organ support
- LI To obtain a review but not necessarily to admit to ICU/HDU
- LI For assistance with a specific therapy to be delivered outside ICU (venous access, help with NIV etc. Please specify)
- LI To obtain a review to plan care in the event of deterioration
- LI Other (please specify)

Has the patient or a person close to them been given an information sheet regarding referral to intensive care?

**Discussed with ICU team member:** Name: \_\_\_\_\_  
Role: Date: time: \_\_\_\_\_

Name: Signature: \_\_\_\_\_  
Role: GMC number: \_\_\_\_\_  
Discussed with consultant: \_\_\_\_\_

Decision-making for ICU admissions Referral form v1.0 19.10.2016

Affix patient sticker here

Hospital admission date: \_\_\_\_\_  
Date of assessment: \_\_\_\_\_  
Time of assessment: \_\_\_\_\_  
Assessment number (for repeat assessments): \_\_\_\_\_

**Critical care: Decision support form**

This form can be used to guide and record the decision-making process regarding the critical care support a critically ill patient should receive. It is designed to support best practice in decision-making.

**Evidence: Clinical** (factors re patient's acute condition and long term health relevant to decision about escalating treatment)

\_\_\_\_\_

**Evidence: Ability to recover from this critical illness based on evidence** (e.g. functional reserve, trajectory of illness, exercise capacity, dependence, self-reported QoL, frailty score)

\_\_\_\_\_

**Evidence: Patient values and wishes** (what is important to the patient with regard to their treatment and the potential outcomes? Please note ResPECT forms/advance directive (if available.) If no information is available please say why.

\_\_\_\_\_

Please document source of this information: (patient, family or someone close to patient, advance care plan etc)

\_\_\_\_\_

Decision-making for ICU admissions Decision form v1.0 19.10.2016

# Referral process

- Referral mechanism is important
- SBAR format
- Consultant to consultant referrals are the preferred model
  - Most senior available clinician
  - Referrals should not be delegated
- Clear involvement of patient/advocate
  - Information leaflet
- Clear recommendation: what is being asked for?
- Document referral to whom and when
- **Use the form**

# Referral form

Hospital admission date: \_\_\_\_\_  
 Date of assessment: \_\_\_\_\_  
 Time of assessment: \_\_\_\_\_

**Critical care Referral form**

This form should be used to guide and record referral for critical care support. It is adapted from SBAR, and designed to support best practice in decision-making. It should not replace direct referrals and discussions.

**Situation:** *(reason for referral)*

---

**Background:** *Patient's medical history and evidence regarding ability to recover from critical illness (e.g. frailty score, trajectory of illness, physiological reserve, etc.)*

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**Patient's values and wishes:** *What is important to the patient about outcomes of their care? Please note any ReSPECT form/advance directive. Please document reasons if no information available.*

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Please document source of information: [\(patient, family member or someone close to patient, advance care plan etc\)](#)

**Recommendation**

- LI To obtain a review to consider admission to ICU/HDU for full or limited organ support
- LI To obtain a review but not necessarily to admit to ICU/HDU
- LI For assistance with a specific therapy to be delivered outside ICU (venous access, help with NIV etc. *Please specify*)
- LI To obtain a review to plan care in the event of deterioration
- LI Other *(please specify)*

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Has the patient or a person close to them been given an information sheet regarding referral to intensive care?

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**Discussed with ICU team member:** Name: \_\_\_\_\_  
 Role: \_\_\_\_\_ Date: \_\_\_\_\_ time: \_\_\_\_\_

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Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Role: \_\_\_\_\_ GMC number: \_\_\_\_\_  
 Discussed with consultant: \_\_\_\_\_

Situation: reason for referral

Background: medical history and **evidence** regarding ability to recover from critical illness  
*(frailty score score, trajectory of illness, physiological reserve, etc)*

Patients values and wishes: **what is important to the patient about outcomes of their care**  
*Note presence of any ReSPECT form or advance care plan*  
*Please document reasons if no information available*

*Please document source of information: (patient, family member or someone close to patient, advance care plan etc)*

Decision-making for ICU admissions Referral form v1.0 19.10.2016



# Referral form

Affix patient sticker here

Hospital admission date: \_\_\_\_\_  
Date of assessment: \_\_\_\_\_  
Time of assessment: \_\_\_\_\_

**Critical care Referral form**  
This form should be used to guide and record referral for critical care support. It is adapted from SBAR, and designed to support best practice in decision-making. It should not replace direct referrals and discussions.

**Situation:** (reason for referral)

**Background:** Patient's medical history and evidence regarding ability to recover from critical illness (e.g. frailty score, trajectory of illness, physiological reserve, etc.)

**Patient's values and wishes:** (What is important to the patient about outcomes of their care)? Please note any RESPECT form/advance directive./ Please document reasons if no information available.

Please document source of information: (Doctor, family member or someone close to patient, advance care plan etc.)

**Recommendation**

LI To obtain a review to consider admission to ICU/HDU for full or limited organ support  
LI To obtain a review but not necessarily to admit to ICU/HDU  
LI For assistance with a specific therapy to be delivered outside ICU (venous access, help with NIV etc. Please specify)  
LI To obtain a review to plan care in the event of deterioration  
LI Other (please specify)

Has the patient or a person close to them been given an information sheet regarding referral to intensive care?

**Discussed with ICU team member:** Name: \_\_\_\_\_  
Role: Date time: \_\_\_\_\_

Name: Signature: \_\_\_\_\_  
Role: GMC number: \_\_\_\_\_  
Discussed with consultant: \_\_\_\_\_

## Recommendation:

- To obtain a review to consider admission to ICU/HDU for full or limited organ support
- To obtain a review but not necessarily to admit to ICU/HDU
- For assistance with a specific therapy to be delivered outside ICU (venous access, help with NIV etc. Please specify)
- To obtain a review to plan care in the event of deterioration
- Other (please specify)

Has the patient or a person close to them been given an information sheet regarding referral to intensive care?

# Patient and family information

## Treating people who are critically ill Information for patients

You have been given this information sheet because the doctors and nurses caring for you have asked the intensive care team for advice about your treatment. When someone becomes suddenly very unwell (critically ill), there are different options about what is the right treatment for them. This leaflet is about these options. We hope that this information will help you to understand what is happening, and to take part in discussions about your care. This will help the doctors and nurses make sure you get the treatment that is right for you. You do not need to read this, or take part in any discussions, if you do not want to.



## Treating people who are critically ill Information for family and friends

You have been given this information sheet because someone close to you has been referred to the intensive care team. When someone becomes suddenly very unwell (critically ill), there are different options about the treatment they should receive. This leaflet tells you about these options. We hope that this information will help you to understand what is happening, and to help you when you speak to the doctors and nurses about the treatment.



# Decision support framework

Affix patient sticker here

Hospital admission date:  
Date of assessment:  
Time of assessment:  
Assessment number (for repeat assessments)

**Critical care: Decision support form**

This form can be used to guide and record the decision-making process regarding the critical care support a critically ill patient should receive. It is designed to support best practice in decision-making.

**Evidence: Clinical** (factors in patient's acute condition and long term health relevant to decision about escalating treatment)

**Evidence: Ability to recover from this critical illness based on evidence** (e.g: functional reserve, trajectory of illness, exercise capacity, dependence, self-reported QoL, frailty score)

**Evidence: Patient values and wishes** (what is important to the patient with regard to their treatment and the potential outcomes? Please note ReSPECT form/advance directive if available.) If no information is available please say why.

Please document source of this information: (patient, family or someone close to patient, advance care plan etc)

Decision-making for ICU admissions Decision form v1.0 19.10.2016

**Evidence (clinical):**  
*(factors in patient's acute condition and long term health relevant to decision about escalating treatment )*

**Evidence (ability to recover from critical illness)**  
*(e.g: functional reserve, trajectory of illness, exercise capacity, dependence, self-reported QoL, frailty score)*

**Evidence (patient's values and wishes)**  
*(what is important to the patient with regard to their treatment and the potential outcomes? Please note ReSPECT form/advance care plan if available.) If no information is available please say why. )*

*Please document source of this information: (patient, family or someone close to patient, advance care plan etc)*

**Balancing burdens and benefits of escalating treatment (based on the evidence in section one)**  
 Benefits of intensive escalation of treatment for **this** patient (what good may be achieved and what harms avoided? How likely is this?)

Burdens of intensive escalation of care for **this** patient (what harms are likely to occur due to escalating care)

**Recommended treatment** (summary of goals and focus of care, and actual therapy patient is to receive)

<p><b>Can this care safely be delivered outside ICU/HDU?</b></p> <p>L.I. Care required can only be delivered on ICU/HDU</p> <p>L.E. Care required can be delivered outside ICU/HDU and resources are available to do this safely</p> <p>L.T. Care required could be delivered outside ICU/HDU but resources are not available to do this safely</p>	<p><b>Arrangements for ongoing care/review</b></p> <p>L.I. Patient will be admitted to ICU/HDU.</p> <p>L.E. Patient to stay on ward with ongoing ICU or critical care outreach review.</p> <p>L.T. Patient to stay on ward. If patient's condition changes and further advice is required please contact ICU team.</p>
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**Individuals contributing to decision-making**

**Patient** (please state if no involvement and reason for this):

**Person close to patient:**

Name:

Relationship to patient:

Nature of involvement: ICU team

Name: Signature:

Role: GMC number:

**Referring team**

Name: Signature:

Role: GMC number:

Further information available: see notes entry dated:

**Balancing burdens and benefits of escalating treatment (based on the evidence in section one)**  
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.....

**Person close to patient:**

Name: .....

Relationship to patient: .....

Nature of involvement: .....

**ICU team**

Name: Signature: .....

Role: GMC number: .....

**Referring team**

Name: Signature: .....

Role: GMC number .....

Further information available: see notes entry dated .....

# Why use the forms?

- They help to structure decision making
- They prompt for what needs to be considered and may be missed in a pressured situation
- They facilitate ethically justifiable decision making (this is how we would want it to be)
- They don't include information that you shouldn't normally record so it is not additional work
- They provide a transparent record for future review (audit/learning/litigation defence)
- The patient and family leaflets help to structure conversations and support their involvement.

## How to use them?

- **Their use should not delay timely urgent treatment of seriously ill patients**
- Some boxes may require little information in some patients (or information may not be available)
- But noting absence of information provides a prompt to revisit this at a later time and obtain relevant information for further review and decision making

# How to use them?

- Paper version; available on wards and ICU; file in patient notes
- May be able to download and print off from Trust website
- Electronic version; has been developed but need Trust IT system to incorporate it



# Case 1: 79 year old female patient

- Admitted 3 days ago with pneumonia now has worsening NEWS score referred to Outreach for consideration of admission to ICU for organ support
- BP 90/50, HR 105, SpO<sub>2</sub> 91%, FiO<sub>2</sub> 0.80, RR: 32, 2000ml ivi in last 3 hours, u.o. 15ml/hr, conscious, History of DM, CKD, osteoporosis, arthritis, 1 fall in last year, takes a long time to climb stairs as not very strong. Walks with a stick.
- Daughter says she is very active, enjoys life, would hate to be “in a home”

# Decision support framework

Affix patient sticker here

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Date of assessment:  
Time of assessment:  
Assessment number (for repeat assessments)

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**Evidence: Ability to recover from this critical illness based on evidence** (e.g. functional reserve, trajectory of illness, exercise capacity, dependence, self-reported QoL, frailty score)

**Evidence: Patient values and wishes** (what is important to the patient with regard to their treatment and the potential outcomes? Please note ResPECT form/advance directive if available.) If no information is available please say why.

Please document source of this information (patient, family or someone close to patient, advance care plan etc)

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## Evidence (clinical):

79 year old female with new diagnosis of pneumonia, 3 days of treatment, now has worsening physiology:  
BP 90/50, HR 105,  
SpO2 91%, FiO2 0.80, RR: 32  
2000ml ivi in last 3 hours, u.o. 15ml/hr,  
GCS 14/15  
History of DM, CKD, osteoporosis, arthritis,

## Evidence (ability to recover from critical illness)

1 fall in last year, takes a long time to climb stairs as not very strong. Walks with a stick. Frailty score 4 to 5  
Reflects patient likely to have prolonged/incomplete recovery

## Evidence (patient's values and wishes)

Daughter says she is very active, enjoys life, would hate to be "in a home". Patient too unwell to discuss.

**Balancing burdens and benefits of escalating treatment (based on the evidence in section one)**  
 Benefits of intensive escalation of treatment for **this** patient (what good may be achieved and what harms avoided? How likely is this?)

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 L.I. Patient will be admitted to ICU/HDU.  
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**Individuals contributing to decision-making**  
**Patient** (please state if no involvement and reason for this):  
 Person close to patient:  
 Name:  
 Relationship to patient:  
 Nature of involvement: ICU team  
 Name: Signaturic  
 Role: GMC number:  
**Referring team**  
 Name: Signaturic  
 Role: GMC number:

Further information available: see notes entry dated:

**Balancing burdens and benefits of escalating treatment**  
**Benefits of intensive escalation of treatment for **this** patient**  
 Patient unlikely to survive without 'pressor and ventilatory support. Very likely to need renal replacement therapy as well. Short term organ support may allow more time for antibiotics to resolve pneumonia

**Burdens of intensive escalation of care for this patient**  
 Functional status post critical illness may be severely curtailed, this is likely to be unacceptable (according to daughter). Full organ support will be distressing and prolonged in all likelihood.

**Recommended treatment**  
 This lady should be admitted for non-invasive ventilation and vasopressor support as ceiling of care. Not for acute RRT or invasive ventilation as deterioration to point of requiring these would show failure of therapy, and no chance of recovery acceptable to patient.

✓ Care required can only be delivered on ICU/HDU

**Arrangements for ongoing care/review**  
 ✓ Patient will be admitted to ICU/HDU.

# Further information

- Name and contact details of Trust champions
- Slides available on Trust intranet?
- Link to study website (slides and forms)