ICNARC developments

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Scope

- Dataset
- IT platform
- Activities



More a revelation than revolution...

Burden

ROI

Cuidelines for the Provision of Intensive Core Services

Exercises

Parameter Core Services

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Identifiers

- Move to NHS number as key identifier
 - with more sophisticated validation
- Replace Date of birth with age (years)



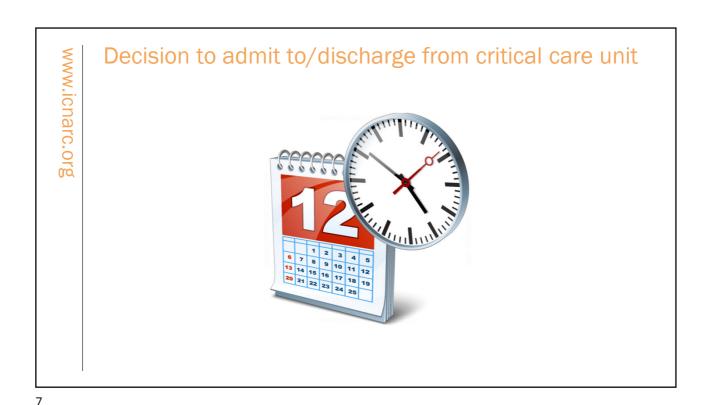
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Hospital admission

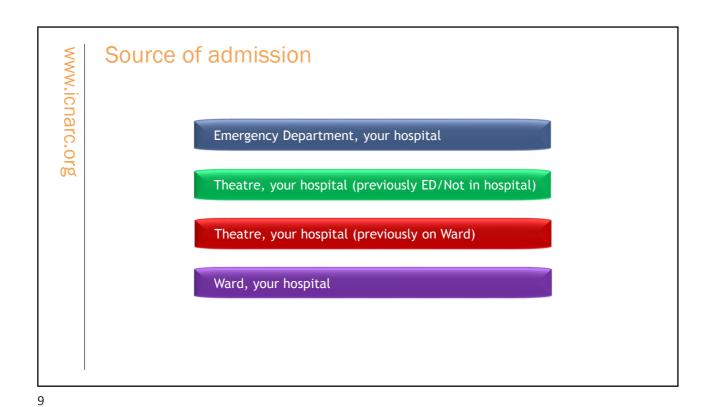
- Date/Time (hour of presentation/admission) to your hospital
- Date/Time presentation (if ED your hospital)





Source of admission/Location following discharge

Common routes
Order couls,
Order route,
Same hospital
Order order
Order order
Same hospital
Order order



Trajectory www.icnarc.org Physiological parameter Score 0 Respiration rate (per minute) ≤8 9-11 12-20 21-24 ≥25 SpO₂ Scale 1 (%) ≤91 92–93 94-95 ≥96 88-92 93–94 on 95–96 on ≥97 on SpO₂ Scale 2 (%) 86-87 ≤83 84-85 ≥93 on air Oxygen Air ystolic blood 91-100 101-110 111-219 ≥220 ≤90 pressure (mmHg) 51-90 91–110 CVPU Alert Temperature (°C) ≤35.0 35.1-36.0 36.1-38.0 38.1-39.0

Treatment goals at admission

- Active care
- Pre-surgical preparation
- Stabilisation and monitoring
 - active care not thought to be appropriate
- End-of-life care



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Treatment goals and limitations

- Collect data on treatment limitations
 - at admission
 - during unit stay
 - at discharge (e.g. not for readmission)
- At/during not for intubation/IMV, DNACPR, not for dialysis, other



Obstetric data

- Exploring data linkage to NMPA
 - 'Admission currently/recently pregnant' and gestation retained
- Exploring accuracy of obstetric data in NMPA



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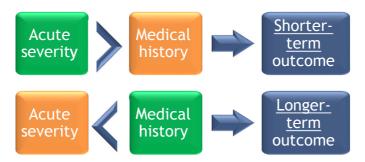
Dropping data

- Pre-admission biochemistry and haematology
 - collected as potential replacement/substitution when first 24 hour unit values unavailable
 - assessed in risk modelling
 - not useful
 - use multiple imputation



Medical history

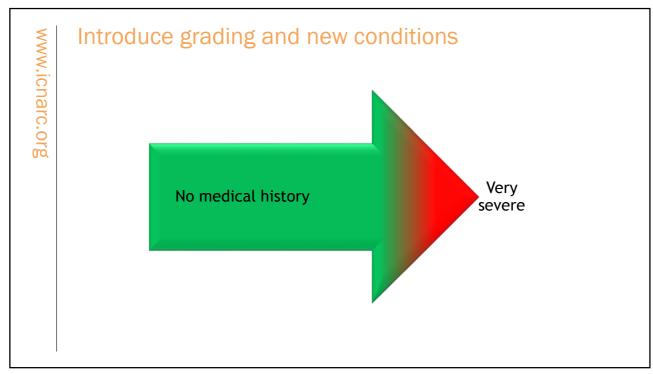
• Currently only collect very severe chronic conditions

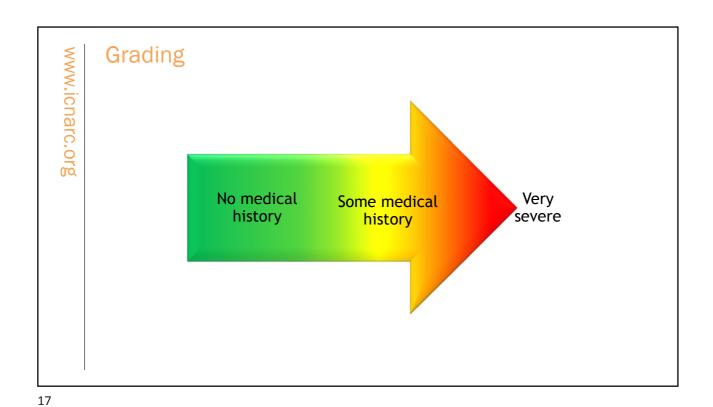


 Insufficient detail for modelling longer-term outcomes (e.g. mortality at one year)



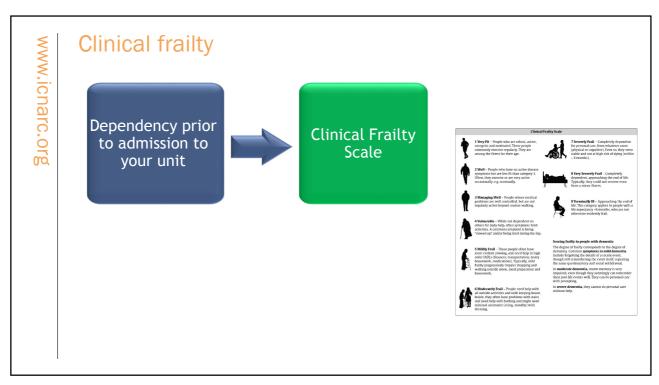
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New conditions

1. Essential hypertension
2. Diabetes mellitus
3. Chronic obstructive pulmonary disease
4. Alcohol dependence
5. Chronic renal failure
6. Chronic angina
7. Drug dependence
8. Obstructive sleep apnoea
9. Rheumatoid arthritis
10. Thrombo-occlusive disease of brain



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Surgery/procedures

- Capture both surgical and procedural data irrespective of location
- Separate surgical and procedural data from reason for admission
 - drop first tier of ICNARC Coding Method (ICM)



Sepsis-3/SOFA

- Add vasoactive drug(s) and serum bilirubin
- Record maximum infusion rate for given vasoactive drug(s) in first 24 hours



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APAPCHE III and IV

• Add albumin and bilirubin

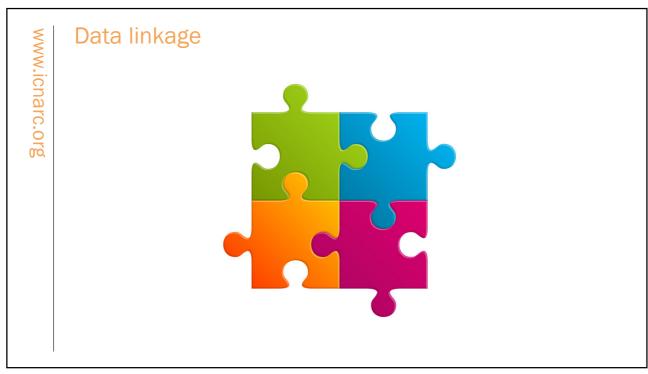


Organ support (daily – as module)

- Collect daily organ support data
- Median unit LOS=3 calendar days



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IT platform – "Platform X"

- Direct data upload
- Online data validation
- Customise data validation report (e.g. delay outcome queries in early stages)
- More efficient processing
- Paperless
- Potential (future...) to add optional modules and host specific ad-hoc audits and future research studies
- Current status...



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Activities

- Network Quality Reports (2 per year)
- Direct access to Network's units Quarterly Quality Reports (via IT platform)
- Ad hoc analyses requests (paid for)
- Training workshops and webinars
- Network meeting presentations
- Visits to/meetings at ICNARC
- Day-to-day customer services
 (e.g. queries, participation, SSQD dashboard checks, etc.)



Activities

- Inequitable customer services
- No standard service
- Service(s) not resourced
- Potential to do more (e.g. Annual Network CMP Meeting, etc.)
- Comments/reflections/ideas the floor is yours...???

