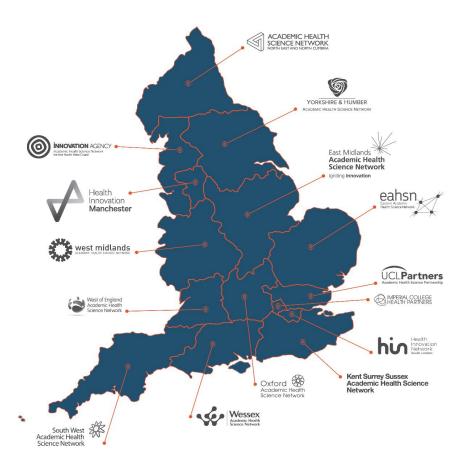
Innovation and Knowledge in Practice

Anne Pullyblank Medical Director

West of England Academic Health Science Network

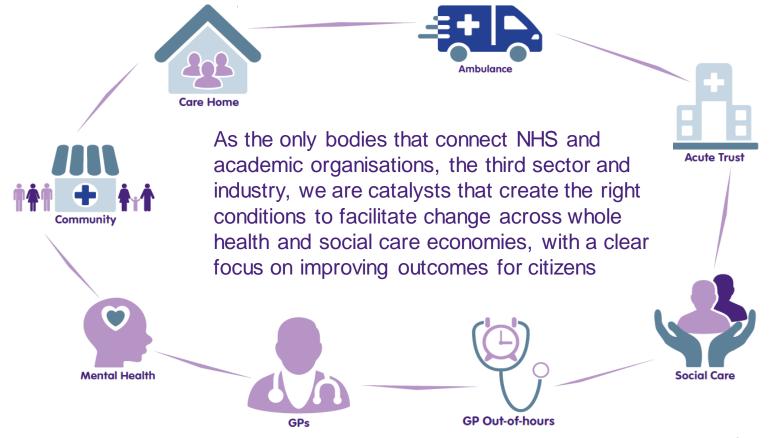


The AHSN Network











Knowledge-Research



Knowledge derived from research-sometimes called evidence







PReCePT Preventing Cerebral Palsy in Pre Term Labour

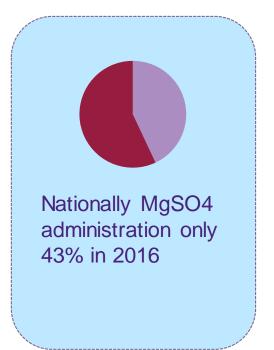




In UK 1% births premature <30 weeks 10% develop cerebral palsy



Antenatal MgSO4 given prior to birth reduces risk of cerebral palsy by 50%



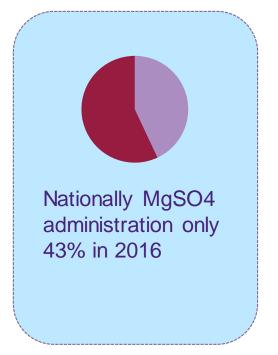




In UK 1% births premature <30 weeks 10% develop cerebral palsy



30% to 85% in 6 months in WEAHSN

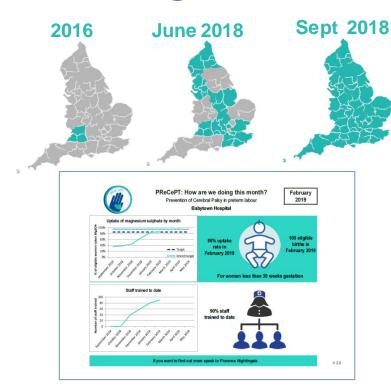




PReCePT Programme Overview







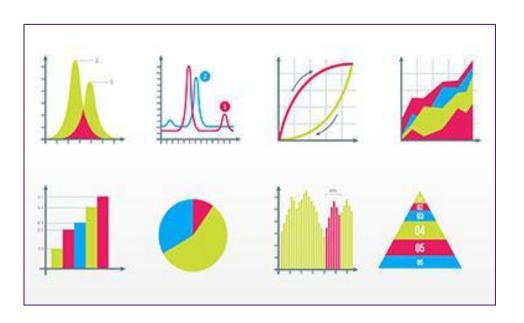
- Network approach
- Delivered via the AHSNs
- Standardised resources
- 90 hours midwife backfill per unit
- Regional clinical lead
- Target: 85% (stretch target 95%) of eligible mothers receive MgSO4 by March 2020
- For every 37 women treated, avoid 1 case of CP

National database: BadgerNet

Resources available via: www. ahsnnetwork/precept



Knowledge-Data



Knowledge derived from audit and routinely collected data - sometimes called statistics









Recommended Summary Plan for Emergency Care and Treatment

ROSPECT	-4	
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two horizon

Home Episodes Clips Galleries More

WE NEED TO TALK
ABOUT DEATH

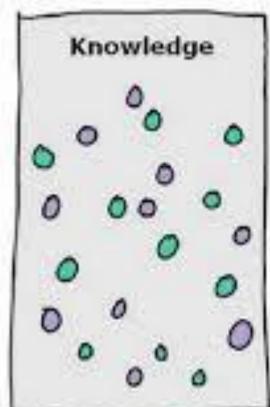


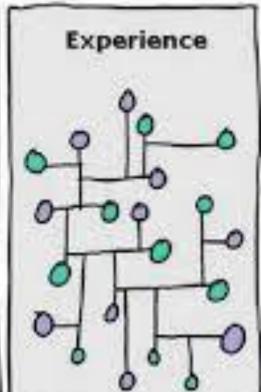
Watch now

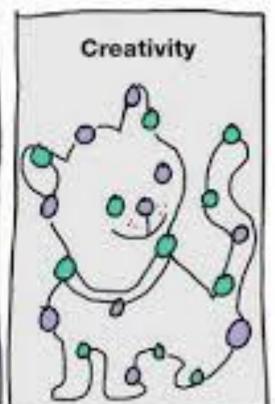
We Need to Talk about Death 2019

Dr Kevin Fong makes a personal journey through the moral questions about death that face not just the medical profession, but each and every one of us.







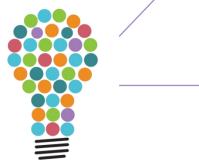




Support for Innovators

 Small Business Research Initiative





Innovation Academy

STP Innovation Hubs

Innovation

Spreading Innovation

- Accelerated access pathway
- Innovation and Technology tariff

Local Health & Care Record Exemplars (LHCRE)





 Small Business Research Initiative



Innovation

Innovation Academy

STP Innovation Hubs

Spreading Innovation

- Accelerated access pathway
- Innovation and Technology tariff

LHCRE focusing on communicating end of life decisions across the system





Have your vision realised

http://www.hyvr.co.uk





Welcome to hyvr: have your vision realised!



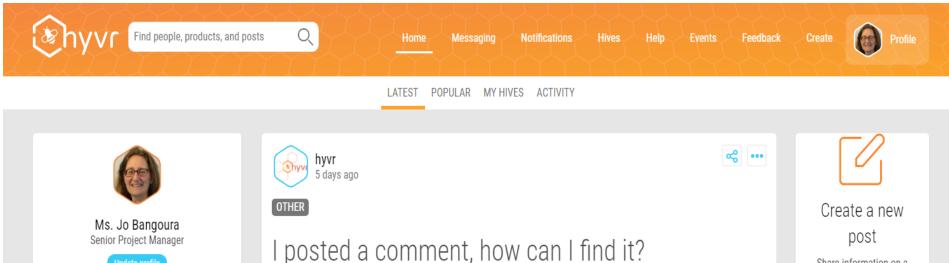


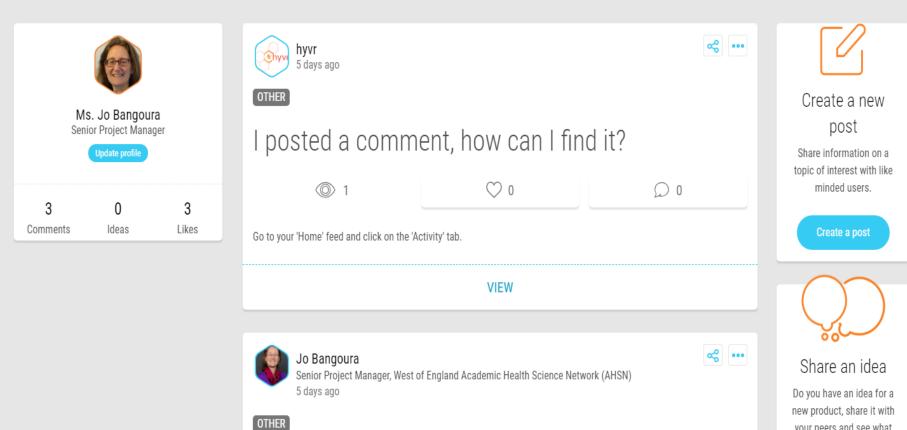














PALLIATIVE (END OF LIFE) CARE

We Need to Talk About death

ReSPECT - Recommended Summary Plan for Emergency Care and Treatment









ReSPECT is a process that creates personalised recommendations for a person's clinical care in a future emergency in which they are unable to make or express choices. It provides health and care professionals responding to that emergency with a summary of recommendations to help them to make immediate decisions about that person's care and treatment. ReSPECT can be complementary to a wider process of advance/anticipatory care planning.

National Early Warning Score (NEWS 2)

Physiological	Score						
parameter	3	2	1	0	1	2	3
Respiration rate (per minute)	≤8		9–11	12–20		21–24	≥25
SpO ₂ Scale 1(%)	≤91	92–93	94–95	≥96			
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
Air or oxygen?		Oxygen		Air			
Systolic blood pressure (mmHg)	≤90	91–100	101–110	111–219			≥220
Pulse (per minute)	≤40		41–50	51–90	91–110	111–130	≥131
Consciousness				Alert			CVPU
Temperature (°C)	≤35.0		35.1–36.0	36.1–38.0	38.1–39.0	≥39.1	





NEWS 2 sepsis score is not validated in primary care

Alex Burns general practitioner

Acute GP Service, Treliske Hospital, Truro TR1 3LQ, UK

Inada-Kim and Nsutebu urge the health system to use the NEWS 2 score in all healthcare settings. They say that "a score in one setting must mean the same in any other." The problem is that it doesn't.

Improved communication in health systems should be encouraged, but as Bernard Shaw (maybe) said about the United Kingdom and United States, primary and secondary care will always be separated by the same language.

As with any scoring system, diagnostic test, or risk stratification tool, the predictive value is governed by the pre-test probability as well as the characteristics of the test. A NEWS score of 4 in an emergency medical setting² does not mean the same as in an ambulance call-out³ or a GP surgery, for the simple reason that serious illness is not as common in these settings.

Clinicians should observe patients and be alert to sickness, but we should acknowledge that the NEWS score is not validated in primary care, let alone as a screening tool. We need research to establish what any warning score means in primary care; until then, we must accept that the NEWS score from primary care is spoken with a different dialect.

Competing interests: None declared.

- Inada-Kim M, Nautebu E. NEWS 2: an opportunity to standardise the management of deterioration and sepsis. BMJ 2018;380:k1280. 10.1138/bmj.k1280.295.99499
- 2 Smith GB, Prytherch DR, Meredith P, Schmidt PE, Featherstone PI. The ability of the National Early Warning Score (NEWS) to discriminate patients at risk of early cardiac arrest, unanticipated intensive care unit admission, and death. Researchation 2013;84:465-70, 10, 10164, researchation 2012;12, 016 232:95778.
- Silcock DJ, Corfield AR, Gowers PA, Rooney KD. Validation of the National Early Warning Score in the prehospital setting. Resuscitation 2015;89:31-5. 10.1016/j.resuscitation.2014.12.029.255831.48

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NEWS 2 AND SEPSIS

NEV

Alex B

Acute GP

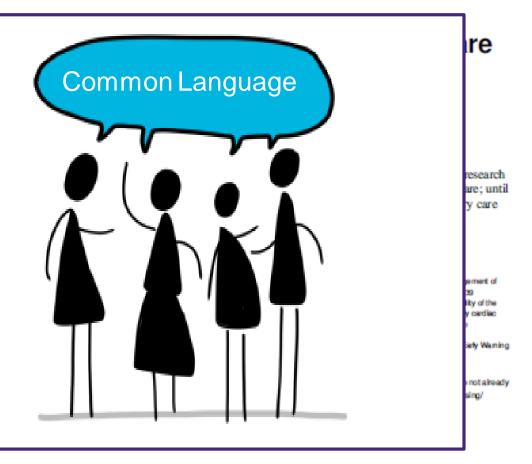
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ambulance serious ill

Clinicians we should





Cross-system













Year 1









South Western Ambulance Service NES



NHS Foundation Trust











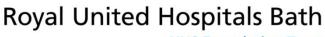




Gloucestershire Care Services **NHS**

NHS Trust

North Somerset Clinical Commissioning Group





NHS **University Hospitals Bristol NHS Foundation Trust**



NHS Foundation Trust





Clinical Commissioning Group

NHS Foundation Trust





HS Foundation Trust



Weston Area Health



Gloucestershire Clinical Commissioning Group

NHS Trust

Year 2: News at handover



Single Point of Access

ED safety checklist

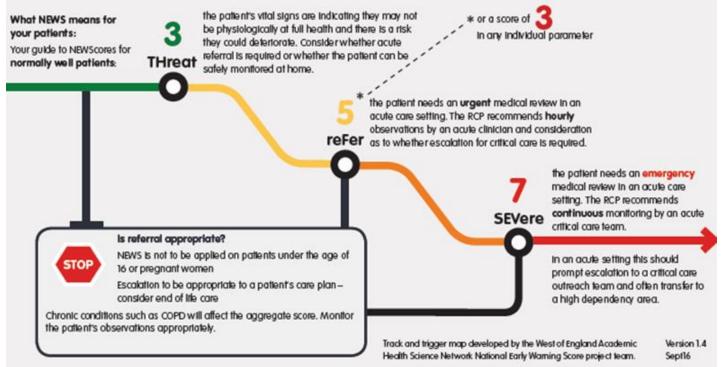
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Community baseline measurement



Cross System

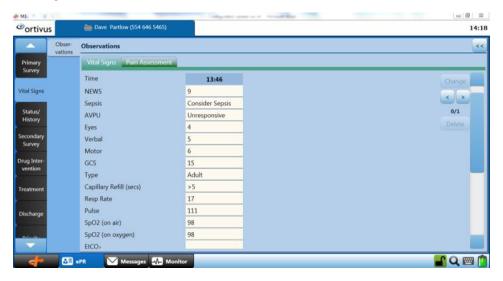




Digital Enablers

Templates in primary and community care systems





Ambulance ePCR



South Western Ambulance Service **NHS**



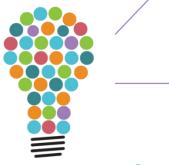
NHS Foundation Trust



Support for Innovators

 Small Business Research Initiative





Innovation

Innovation Academy

Challenge Call
'Keeping People
at Home'
Telemedicine,
wearables etc

Spreading Innovation

- Accelerated access pathway
- Innovation and Technology tariff

Local Health & Care Record Exemplars (LHCRE)



Evaluation

The Concept of a Systematic Review





Systematic Review



Qualitative





Quantitative



Systematic Review



- No evidence where EWS has been put into a prehospital system
- 17 studies (n=157 878)
- Low EWS and high EWS predict mortality



Qualitative Research



- Improved communication
 - across systems
 - across professional roles
- Supported clinical decision making & prioritisation

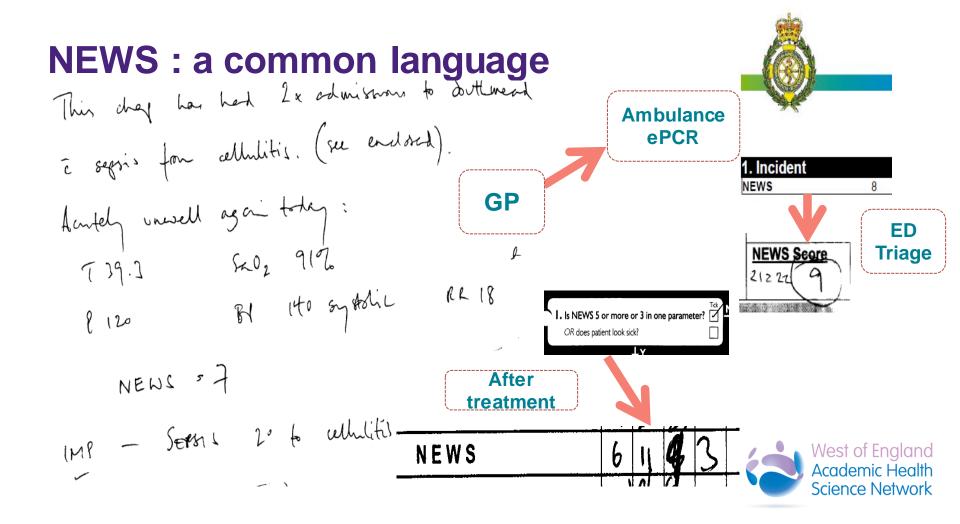


Knowledge-Experience. Paul's story

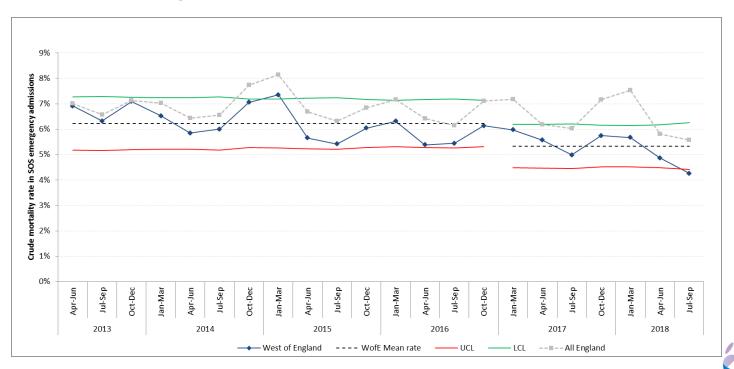


https://vimeo.com/208284106





Mortality from Suspicion of Sepsis

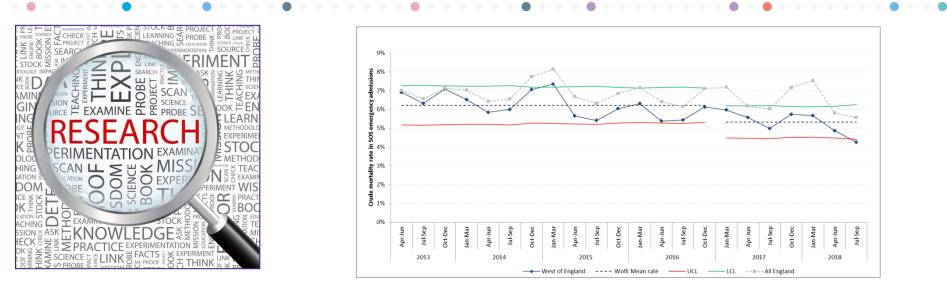


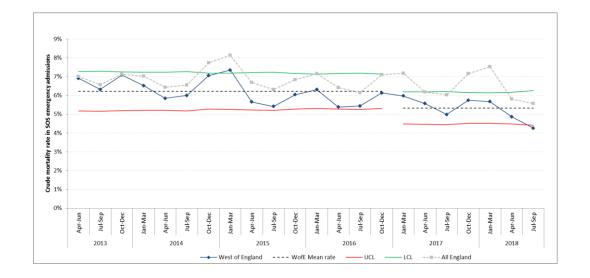
West of England

Academic Health Science Network

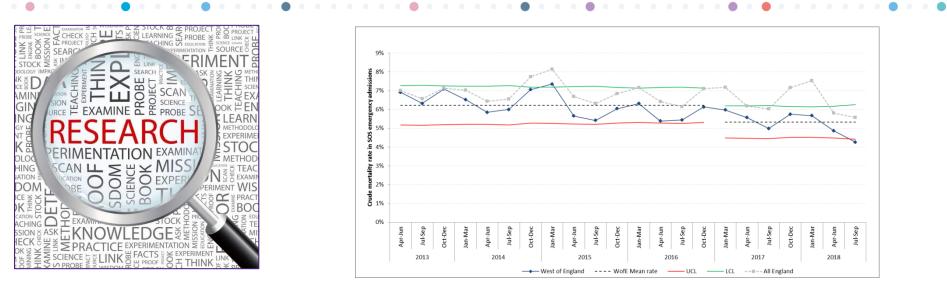


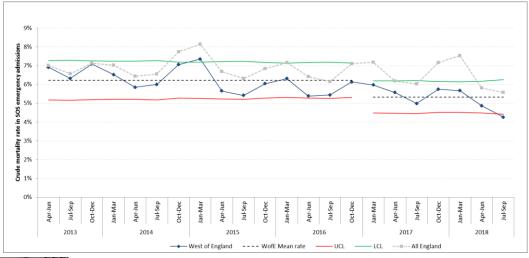








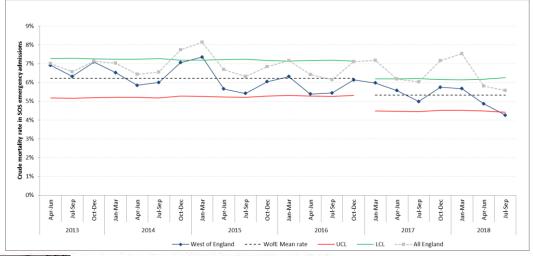




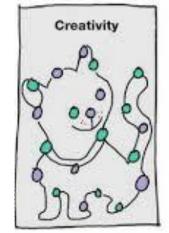




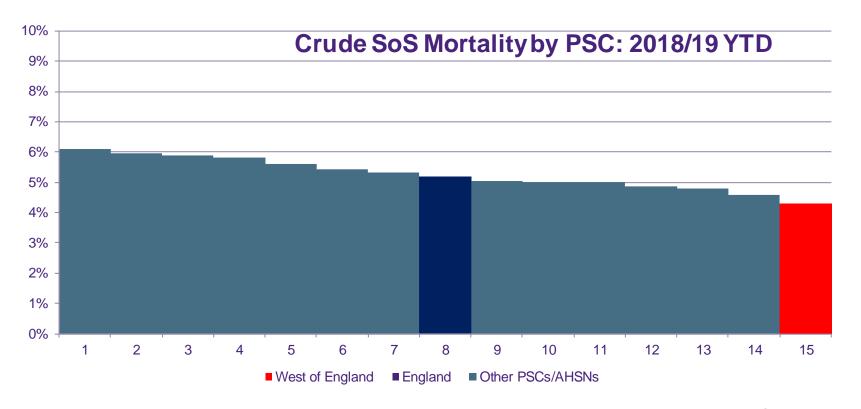
















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