Active Clinical Decision Support

Empowering primary care clinicians to deliver preventative care

Elsevier Clinical Solutions

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Not all Clinical Decision Support is Equal

**Level 1**
**Information Support**
*Clinical user must navigate text-based information & ascertain what is relevant*

**Level 2**
**Action Rules**
*Clinical user supported by electronic data validation, clinical alerts & reminders*

**Level 3**
**Computer-Interpretable Guidelines (CIGs)**
*Clinical content customised to individual patients or clinical trial subjects. A.K.A. Integrated care pathways*
Paediatric admissions for asthma* reduced by 50%

* NZ has one of the highest rates of childhood asthma in the world

‘Before’ and ‘After’ introduction of Arezzo-based asthma pathway

Reduction in TIA/stroke within 90 days

- Stroke at 90 days
- TIA or stroke at 90 days
- Vascular event or death at 90 days

Neither Tool nor Training
Training only
Tool only
Both

Active Clinical Decision Support in Early Cancer Diagnosis

**STEP 1**
This patient has more than one symptom, crossing several cancer diagnoses

**My Features**
- Abdominal pain
- Change in bowel habit (unexplained)
- Bleeding (unexplained)
- Soft tissue lump (unexplained & increasing in size)

**STEP 2**
Check across all relevant cancer types and refer directly if appropriate, else Step 3.

**STEP 3**
If referral not indicated then collate all relevant tests together

**Primary Care Investigations**
- Within 48 hours: Full blood count
- Within 2 weeks: Ultrasound
- Non-Urgent: Measure serum CA125
- Non-Urgent: Testing for occult blood in faeces

**STEP 4**
Keep checking result against set of cancers to determine next steps.

**Referral Suspected Cancer pathway**
- colorectal cancer
- ovarian cancer
- leukaemia
- soft tissue sarcoma

**Safety netting**
- Test negative
  - Review & monitoring
  - Cancer not suspected
- Test Positive
  - Colorectal cancer
  - Ovarian cancer
  - Leukaemia
  - Soft tissue sarcoma
Thank you!

Impacting care delivery at every stage in the patient’s journey

https://www.youtube.com/watch?v=hLxAaEJNgMc