





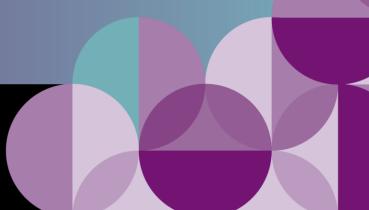
# The Limitations of Training Prescribers in Using ePrescribing Systems

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## The Team

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## Introduction

- A key element of the implementation and on-going use of an ePrescribing system is ensuring that users are, and remain, sufficiently trained and competent to use the system effectively.
- The user training should be:
  - 1. Comprehensive
  - 2. Highlight potential pitfalls and challenges
- Challenges in delivering effective training:
  - large numbers of staff; staff resistance/availability; rotation between wards and specialties; and temporary/short term staff.
  - Range of users and expanding responsibilities
- Some studies suggest that insufficient training is associated with suboptimal use of a system.
  - Highlights the importance of training and education both in facilitating successful implementation of electronic systems and averting errors.

## Aim

- To describe the approaches used to train qualified prescribers on electronic prescribing systems; and if online methods were used
- To identify whether this training covered the pitfalls and challenges of using these systems

## Methods

- 1. Contacted UK companies by email and telephone, and visited websites.
- Literature review to determine what approaches are used to train qualified prescribers on ePrescribing systems in a hospital setting.
  - 8 publications included (6 full-text papers and 2 abstracts)
- 3. Semi-structured interviews
  - Representative from four hospital Trusts

- Contacted UK companies by email and telephone, and visited websites
- Online training rarely provided.
- Range of training approaches offered by the companies

<ul> <li>Classroom-based sessions</li> </ul>	E-Learning
• Lectures	<ul> <li>Chat-forum (help desk)</li> </ul>
• Workshops	<ul> <li>Patient scenario based examples</li> </ul>
Ward-based training	<ul> <li>Handbooks and 'quick- start' guides</li> </ul>

Train-the-Trainer:

Company delivers

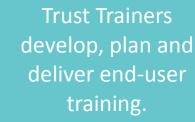
training to

designated hospital

staff trainers

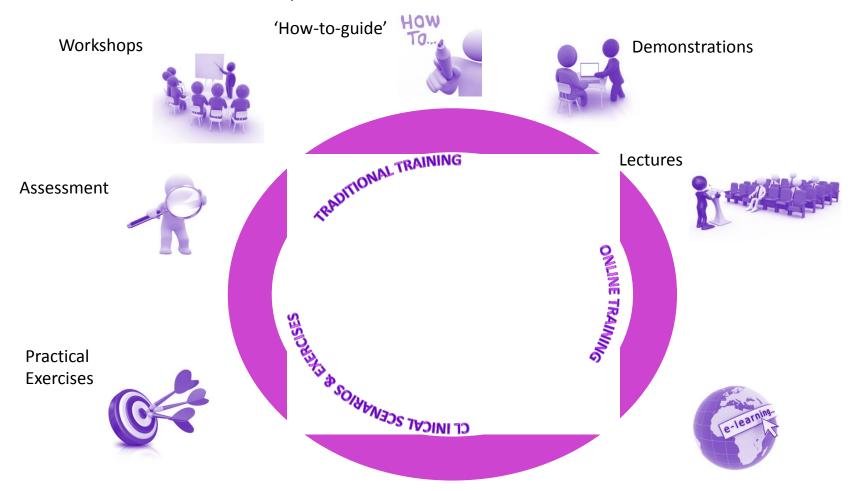


Optional Company support of end-user training: advice, training packages, training materials e.g. handbooks





Literature review: 8 publications; 6 full text and 2 conference abstracts



**Interviews: 4 Sites** 

## 1. Is the training supported by the companies that provide the systems? If not, who provides the training?

- Company provided end-user training/ training material at implementation stage
- Hospital informatics team and IT trainers, develop and deliver ongoing training
- Clinically trained trainers

#### 2. How is the training facilitated

- Lectures
- Classroom based sessions in a computer suite
- Training domain
- Clinical exercises- workflow orientated rather than procedural
- Evening sessions
- Assessment
- Ward based training
- E-learning modules- role specific
- Summary session/Speed-date meeting
- Ancillary materials, such as a handbook, 'how-to' guides, 'handy hints', web-based demonstrations.
- Super-users
- Help desk

#### 3. Lessons learnt:

- Planning Stage
  - Mandatory training
  - Timing of sessions & Duration
  - Planning

#### Delivery

- Practical exercises
- Super-users
- Ward based training
- Workflow orientated
- Focus on 'problem areas'
- Accessibility- e-Learning
- 'Real-Life'
- Consistency
- Feedback

#### On-going Support

Modernisation

#### 4. What common issues arise when training prescribers on induction?

- Logistical difficulties
- Technical issues
  - Set-up of accounts
  - E-Learning issues
- Updating the training to reflect system changes
- Training overload
- Challenging functions: rescheduling administration times, antibiotic review, insulin, fluids...
- Targeting training at the right level
- Staffing
- Staff resistance/ communication
- Locum staff
- Duration
- Trainer expertise

## Take home messages...

- Range of methods used to train qualified prescribers
- Using combination of learning methods appeals to the learning styles of different users.
- eLearning material should be engaging, include scenarios and quizzes, simple, concise, informative and specify learning outcomes learning
- Specific recommendations include: (Sittig et al., van Stiphout et al.)
  - Adequate training opportunities to experience the system prior to implementation
  - Enforcing a minimum level of training before clinicians are authorised to use the system
  - Delivery of role-specific 'walk-throughs' of the different processes
  - Training should encompass both procedural tasks (e.g., prescribing a medicine) and cognitive tasks (e.g., interpreting a CDS alert)
  - Replicate 'real-life' issues e.g. interoperability
- Lack of the lack of data retrieved suggests a need for additional research

## Thank you for Listening. Any questions?