

Early Phase Clinical Trials

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Background



- What dose of a new drug causes serious effects dose limiting toxicity
- Very common design used by clinicians : 3+3
- Statistical community has identified for decades serious issues with the design
- Impasse reached in changing practice.

Rule-Based approach





Traditional Design





Continual Reassessment Design

NHS National Institute for Health Research



Example: Continual Reassessment Method









- Statisticians and trialists across academia, government and industry
- Talks:
 - Examples where change is achieved
 - Experts in methodology
- Workshop:
 - Scope the problem
 - Identify stakeholders
 - Action plan

Output so far



- Papers
 - Identification of barriers. Survey results.
 - How to implement main alternative method
- ICTMC conference
 - Use of pre-prepared analysis tool
 - Posters
- Identification of clinical leaders willing to change unilaterally



Insert your organisation name here





How to design a dose-finding study using the Continual

Reassessment Method

Running title: Designing a dose-finding study using the CRM

Graham M. Wheeler^{1,2}, Adrian P. Mander², Alun Bedding³, Kristian Brock⁴, Victoria Cornelius⁵, Andrew P. Grieve⁶, Thomas Jaki⁷, Sharon B. Love⁸, Lang'o Odondi⁸, Christopher J. Weir⁹, Christina Yap⁴ and Simon J. Bond^{2,10}

Insert your organisation name here