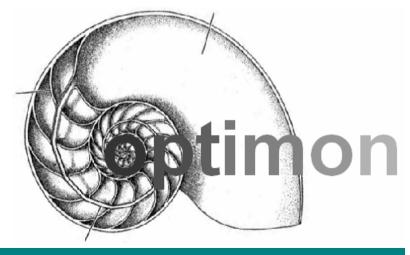
OPTIMON

evaluation of efficacy and cost of two monitoring strategies for public clinical research









background

Good Clinical Practices

sponsor responsability, via clinical trials unit/CRO quality should be the same regardless of the sponsor

directive 2005/28/CE

adaptation of monitoring to the academic context

monitoring

responsible for data quality and conformity to regulations 20-40% of research cost

monitoring intensity depending on

benefit/risk ratio, potential impact of the results

Optimon

adaptation and diffusion of patient's risk evaluation adaptation and standardisation of a monitoring plan

hypothesis

an "optimised" monitoring strategy

may be described a priori for each clinical research study except for highest risk level (D)

may yield results similar to those of a "classical" strategy for the main quality criteria of a study

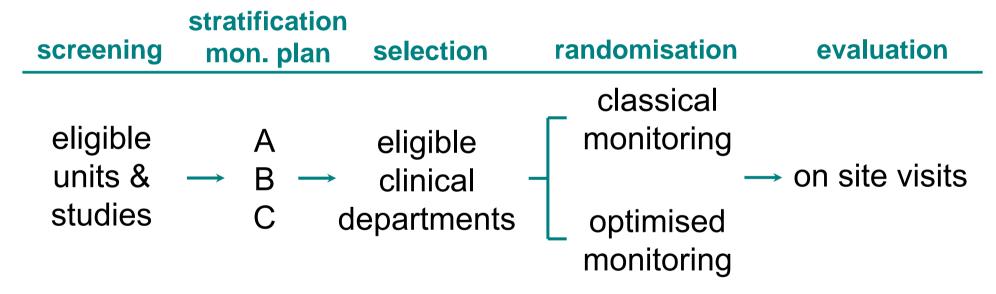
will add value to other aspects such as research cost and time to results delivery

→ non inferiority trial

Optimon design

design

randomised, multicentric, open-label, non inferiority trial cluster (clin. dept.) randomisation stratified on risk level



trial size

1800 patients up to 360 clinical departments

OPTIMON - G. Chêne - V. Journot

eligibility criteria

any patient

participating in a study

non D (the higher) risk level (i.e. A, B or C) agreement to participate in Optimon from sponsor, ethics comittee and coordinator investigator unfolding 2006 - 2008

- ≥ 20 patients
- ≥ 4 clinical departments (≥ 5 patients by department) paper CRF

managed by a clinical trials unit

labeled by an public institution

≥ 2-year experience in multicentric trials

SOP finalised before inclusion

ECRIN – Frankfurt 2006, April 3

monitoring strategies

"classical" monitoring

frequent on site visits
100% data of 100% patients verified
set for Optimon, whatever the risk level
fully relevant for risk level D

"optimised" monitoring

lightened

the higher the risk level, the lighter the monitoring 100% of the main quality criteria for a sample of patients detailed definition work still in progress

monitoring strategies (2)

	Classical	Optimised	
Initial contact	tel or short meeting	tel or short meeting	
Initial meeting	In any case	In any case	
Initial on-site visit	In any case	Before inclusion of the 1st screened patient	
Interim visits	When the 1st patient is included, then every 2-3 pts	When the 1st 2 pts have been incl., then if problems arise	
Quality control	100 % data for 100 % pts	100 % key data for a sample of pts	
On-site corrections	At each on-site visit	At each on-site visit, restricted to key data	
Use of tel, fax, mail	When necessary	Actively	
Closing on-site visit	In any case	In any case	
Consent	On-site checked	A priori (4th page of a consent)	
Re-reading before data entry	In any case	In any case	

Optimised by level of risk (A, B, C), study complexity, unicity



outcomes

primary outcome

proportion of patients without error on informed consent SAR reporting eligibility criteria primary outcome of the study assuring regulatory conformity and results credibility

secondary outcomes

each component of the primary outcome indicators of study completion speed frequency of errors pre- or post-monitoring delay of SAR reporting direct and indirect cost indicators

funding and participation

France

funding national program for hospital research 2005

sponsors main University hospitals

INSERM, ANRS, IGR, INCa, FNCLCC

networks Clinical Trials Units (RFUEC)

Clinical Research Centers (INSERM CIC & CIC-EC)

participating clinical trials units

J.P. ABOULKER (INSERM SC10)

C. ALBERTI (Hôp. R. Debré, CIC-EC)

E. BELISSANT (CHU Rennes, CIC)

J. BENICHOU (CHU Rouen)

F. CARRAT (INSERM U707)

G. CHATELLIER (Hôp. Eur. G. Pompidou, CIC-EC)

G. CHENE (INSERM U593, CHU Bordeaux, CIC-EC)

J.P. COLLET (GEREQ)

D. COSTAGLIOLA (INSERM U720)

J. DEMOTES-MAINARD (CHU Bordeaux, CIC)

F. GUILLEMIN (Hôp. Marin, CIC-EC)

T. LANG (CHU Toulouse)

A. LEIZOROVICZ (Univ. Lyon 1 EA 3736)

N. MOORE (INSERM U657)

J.P. PIGNON (Institut Gustave Roussy)

P.M. PREUX (CHU Limoges)

O. RASCOL (CHU Toulouse, CIC)

P. RAVAUD (Hôp. C. Bernard, INSERM U738)

J.M. TRELUYER (Hôp. Cochin)

E. VICAUT (Hôp. Lariboisière)

starting in September 2006

pre-OPTIMON

validation of a scale evaluating the risk level for patients included in academic clinical research

working group

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P.H. Bertoye AFSSAPS E. Mottez INSERM

G. Chêne CHU Bordeaux, INSERM J.P. Pignon IGR

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C. Gaultier AP-HP,INSERM



AP-HP scale

risk classification for monitoring intensity adaptation set in 2001, never formally validated

	clinical trial genic or cellular therapy	physiopathology genetics	questionnaire quality of life psychiatry	imaging radiology radiotherapy isotopes	surgery
A	_	non invasive (blood sample)	_	routine	usual biopsies cutaneous, ganglionic
В	phase IV phase III combination of products with MA	invasive accord. to act injection accord. to product	specialized questionnaire in severe pathology	standard technique but ill-knowned	routine
С	phase III new indication population at risk	invasive accord. to act injection accord. to product		learning phase	generalisation of a new technique
D	phase I or II	_	_	perfecting of a new technique	perfecting of a new technique

design

discussion of items relevance reproducibility validity

discussion of items relevance

litterature search of scales

AP-HP, EORTC, MRC, « Giens » workshop

working group discussion

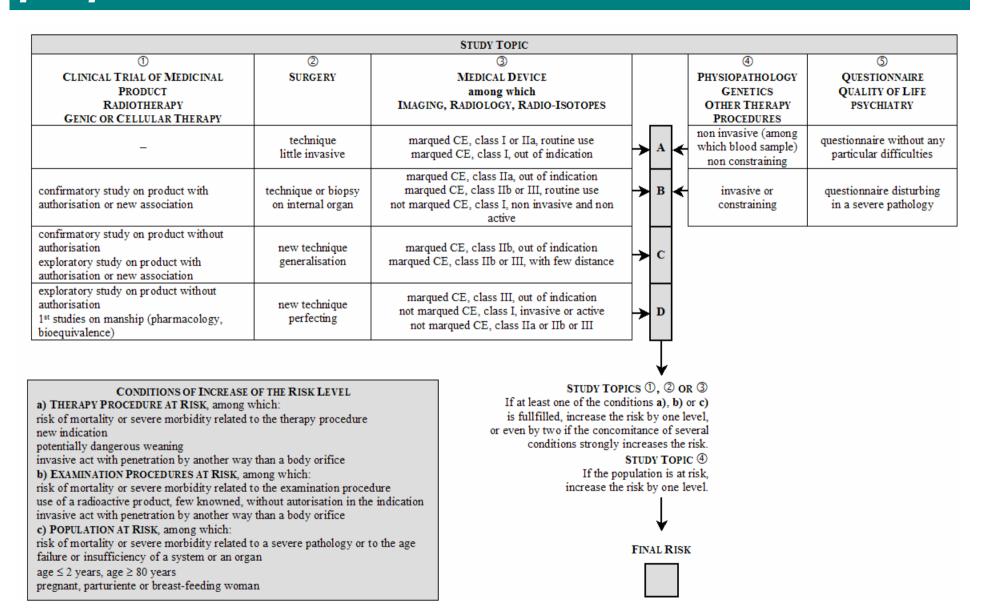
→ items and scale adaptation

survey

critical review of items & scale presentation 47 professionals experienced in clinical research

→ a new scale

proposed new scale



reproducibility

sample size

200 study protocols 40-60 evaluators

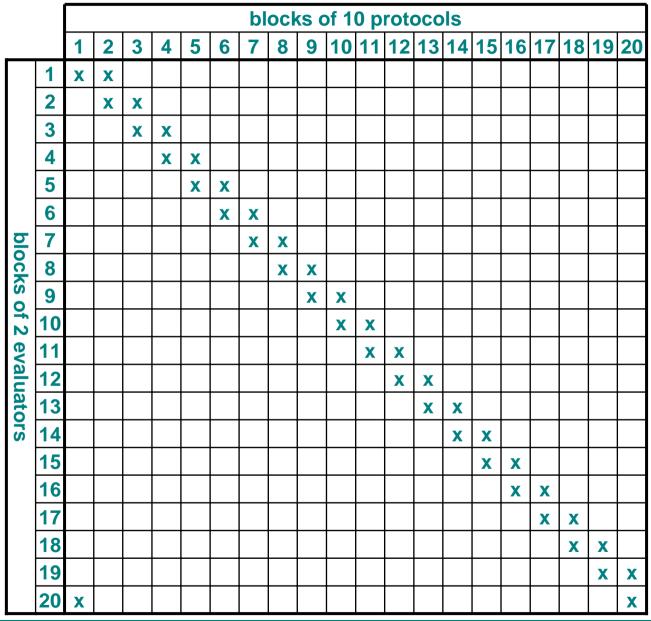
design

balanced incomplete blocks

statistical analysis

estimation of scale reproducibility identification of sources of disagreement

balanced incomplete blocks design



with
random allocation
of
protocols & evaluators
to
blocks

validity

design

analogic visual scale x scale 52 study protocols x 15 evaluators

statistical analysis

Is there a risk continuum?

Are the scale-determined risk levels correctly ordered?

Are there really 4 distinct risk levels?

proposal

looking for a consensus among ECRIN

necessity for a common scale achieving consensus by the Delphi method Cf. Standards for Reporting of Diagnostic Accuracy *BMJ* 2003;326:41-4

organisation

under the aegis of ECRIN / monitoring working package

design

constitution of a steering committee circulation, critical review of the translated scale 1-2 days meeting of experts from various interest groups small groups / plenary sessions

→ consensus on optimal format and phrasing

more information

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Optimon Web site

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