Writing a Study Protocol for Therapeutic Recreation Studies in Canada

(Based on ICH-GCP Guidance Document)

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"Standard" Headings

- Title Page
- Table of contents
- List of abbreviations
- Introduction (background information)
- Objectives
- Study Procedures (overview trial design)
- Medicine & Dosage
- Study Procedures (detailed, by period and/or by phase, treatment of subjects)

"Standard" Headings cont'd.

- Patient Population (incl./excl., withdrawal criteria)
- Efficacy and Safety Parameters
- Statistical Analysis
- Ethical and Regulatory Considerations
 - Approval, Informed Consent Procedure, Confidentiality & Record Keeping, Adverse Reactions, Monitoring, Publication of Results
- References
- Appendices

Example of Protocol Structure (Table of

1. INTRODUCTION			
1.	INTRODUCTION	7 69 Y	VARNINGS/PRECAUTIONS
2.	TRIAL OBJECTIVES	7.	Ethical Aspects and Good Clinical Practice
3.	INVESTIGATOR(S) AND OTHER TRIAL		Compliance
	PARTICIPANTS	7.1	Good Clinical Practice
4.	TEST DRUG AND CONTROL AGENTS	7.2	Informed Consent and Subject Information
4.1	Investigational Product(s)	7.3	Monitoring by the Sponsor
4.2	Supply, Packaging, Labeling and Storage	7.4	Documentation
5.	INVESTIGATIONAL PLAN	7.5	Premature Termination of Trial/Closure of Center.
5.1	Overall Design and Plan of Trial	8.	Adverse Events
5.2	Selection of Subjects	8.1	Adverse Event Monitoring
5.2	2.1 Primary Diagnosis	8.2	Adverse Event Definitions
5.2	2.2 Number of subjects	8.3	Adverse Event Documentation
5.2	2.3 Inclusion Criteria	8.4	Reporting of Serious Adverse Events
5.2	2.4 Exclusion Criteria	9.	STATISTICS
5.3	Method of Assigning Subjects to Trial Groups and Blinding	9.1	Sample Size Estimation
Pro	cedure	9.2	Statistical and Analytical Plan
5.4	Planned Dosage and Duration of Treatment	9.3	Interim Analysis/Analyses
	4.1 Dosage and Administration	10.	USE OF DATA AND PUBLICATION
5.4	4.2 Duration of Treatment	11.	REFERENCES
5.5	Assessment Periods	12.	APPENDICES
5.6	Observations and Measurements: Assessment for	12.1	Trial Flow Chart
Tre	atment Effects	12.2	National Variations (for Multinational Trials only)
5.7	Subject's Compliance	12.3	Statistical Methods (Details)
5.8	Concomitant Therapy	12.4	Bioanalytic Methods
5.9	Removal of Subjects from Trial	12.5	Instructions for Handling Biological Samples
5.10 Criteria for Evaluation of Trial Objectives and Safety		Including ABRA Guidelines	
5.10.1 Description of Subject Groups for Analysis			(if applicable)
5.10.2 Trial Objectives		12.6	CAP Severity Classification
5.	10.3 Safety		
	10.4 Dhammachinetics and Dwg Concentration Data (if		

Protocol CONTENT

Objectives

- Clear statement detailing WHAT is being investigated - follows from identified corporate need
- Define what questions are to be answered from the study: primary vs. secondary outcomes (GCP 6.3 & 6.4)
- Define which of the research questions are most important/critical for product registration and/or marketing

Trial Design - Feasible ?

- When the trial design doesn't work:
 - state of technology does not allow for data collection
 - equipment needed is too expensive to buy or operate
 - too many subjects required
 - too much manpower required
- May need to re-work objectives to allow for more feasible trial design

Patient Population

<u>Inclusion Criteria</u>: minimum criteria required for the subjects/patients to be included in trial

Exclusion Criteria: the presence of any one criterion renders the subject/patient ineligible to be included in the trial

<u>Withdrawal Criteria</u>: when, how, replacement of subjects, timing of data collection, follow-up (GCP 6.5.3)

Introduction

- Background on disease/medicines currently used
- What are the limitations of current therapy
- Pre-clinical & clinical data on new medicine
- Summary of known & potential risks
- Background of hypothesis being tested
- Rationale for the trial (GCP 6.2)

Introduction

Be sure to highlight advantages (real or proposed) of the new therapy over current therapy

Introduction

Sources of information

- previous protocols
- literature review
 - journal articles
 - books
 - treatment guidelines
- physicians
- Therapeutic recreation advisory boards

Efficacy and Safety Parameters

Dependent upon trial objectives/design

Efficacy parameters (GCP 6.7)

- primary and secondary outcomes
- method of evaluation

Safety parameters (GCP 6.8)

- method and timing for assessment and recording of AEs
- procedures for eliciting reports and type of follow-up

Study Procedures - Methodology

- Time and events schedule
- •List of specific measurements and evaluations
 - Screening phase
 - Baseline phase
 - Treatment phase
 - Post-treatment phase

Study Procedures-Discontinuation

- When & how to withdraw subjects from the trial
- Type & timing of data collected for withdrawn subjects
- Whether or not to replace subjects
- Follow-up procedure for withdrawn subjects
- Reason for withdrawal (GCP 6.5.3)

Statistical Analysis

- Size of treatment effect that is deemed clinically significant
- Sample size calculation & justification
- Plan of analysis
- Significance level
- Interim analysis, if applicable
- Procedure for accounting for missing data,
 withdrawals, etc. (GCP 6.9)

Ethical, Regulatory and Administrative Issues

- Consent: Procedure for administration of informed consent
- REB review: Institutional reviews for approval
- Statement of GCP compliance (GCP 6.2.5)
- Confidentiality statement
- Record retention: who is responsible and how long

Ethical, Regulatory and Administrative Issues, cont'd

- Monitoring: timing and purpose of monitoring
- Publication policy (GCP 6.15)
- Direct access to source documents (GCP 6.10)"the sponsor should ensure that it is specified in the protocol that the investigator/ institution will permit direct access to source documents"

Ethical, Regulatory and Administrative Issues, cont'd

- SAE reporting: responsibilities of sponsor and investigator
- Procedures used with early termination of subjects/study
- General considerations for CRF completion and handling
- Procedures for developing study budgets and schedule of payments

Title Page (as per GCP 6.1)

- Title
- Protocol identifying number
- Protocol version number
- Date
- Amendment number and date, if applicable
- Sponsor's name and address and telephone number

Title Page, cont.

- •List and signatures of main/resource people involved (titles, addresses, contact numbers)
 - Protocol authors (Therapeutic recreation Specialist and Statistician)
 - Sponsor's Monitor
 - Sponsor's Study Manager
 - One consulting/co-ordinating Investigator (or qualified Therapeutic Recreation Specialist)

Title

Should include at least:

- Interventions
- Applications

Optional:

- study design
- study objectives
- duration of therapy

Next page...

- Table of contents
- List of abbreviations

References

- •list of publications referenced in the protocol
- •general guidelines for referencing are available on the Internet
- •be sure to read and use original source article

Appendices

Study Flow Chart

Questionnaires:

- Specifically developed by company/investigators to be used in study
- Other standardized questionnaires used in study

Guidelines for:

use of devices used in the study

Appendices-con't

Used to be, but no longer:

- Tri-council Policy Statement Canada
- Copy of ICH GCP
- Copy of informed consent form
- Copy of the CRF

Study Overview/Synopsis/Outline

- Type of study design
- Study Objectives
- Method of randomization
- Study duration (number of days, weeks)
- Number and type of visits/periods

Reference

ICH-GCP Guidelines: www.ICH.org