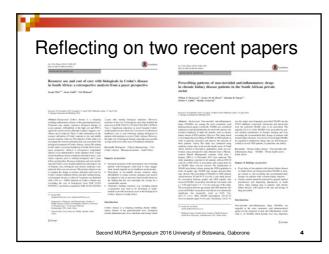




# Timing Monday 25

- Monday 25 July 2016 PRECONFERENCE TRAINING WORKSHOPS
- 14.30 14.45 Introductions
- 14.45 15.00 Why do we need a research proposal at all?
- 15.00 15.30 Elements of a successful (and useful) research proposal
- 15.30-16.00 coffee beak
- 16.00 18.00 Working through the elements, one-by-one and reflecting on two completed projects

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• "A proposal's overt function is to persuade a committee of scholars that the project shines with the three kinds of merit all disciplines value, namely, conceptual innovation, methodological rigor, and rich, substantive content. But to make these points stick, a proposal writer needs a feel for the unspoken customs, norms, and needs that govern the selection process itself."

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# Elements of a successful (and useful) research proposal

- Title Page
- Introduction, Context, and Problem
- Research Question or Hypotheses
- Aim & Objectives
- Literature Review
- Theoretical/Conceptual Framework
- Study Design
- Limitations
- Significance and Novelty of the Work
- Ethical Considerations
- Dissemination References
- Appendices

- This is but one of many formats (the one currently used in the UKZN online Masters programme in the School of Health Sciences).
- There are many others, and each has its strengths and weaknesses.
- Understand the needs of your institution or the proposed funder of your research.

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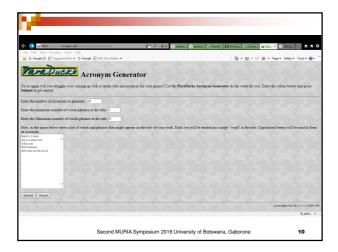
# Title page

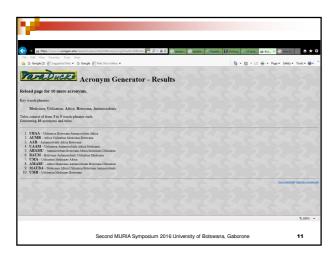
project title

Note: To decide on a title, consider focusing on one of five ways to derive a name: by emphasising

- 1) the problem
- 2) the method
- the aim 3)
- the result (works better when you are writing up afterwards)
- a combination of aim and method

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Introduction, Context, and Problem
<ul> <li>Give a brief overview/summary of the larger question/problem/enquiry in the field and how your study fits into this arena. It should provide sufficient information to set the scene for your aims, objectives and hypotheses</li> </ul>
<ul> <li>What is the bigger issue or problem that the project addresses?</li> <li>Why is this an important or beneficial study in the context of the bigger issue?</li> </ul>
Define or describe the main terms or concepts addressed in the body of the proposal
<ul> <li>Include information the reader needs to know in order to form a mental picture of the context of your research.</li> </ul>
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### Introduction, Context, and Problem (2)

- Can contain descriptive background information relevant to the topic that does not necessarily fit into the literature review.
  - for example, you can provide information on incidence and prevalence of relevant diseases or conditions, drug usage/adherence information, geographic or demographic information that helps the reader understand the context of your research.

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13



### Introduction, Context, and Problem (3)

- This section should end with a clear problem statement, that contextualizes the problem in your study area and clearly indicates the gaps that you are intending to address
  - make sure the information in the problem statement is conceptually similar to the research questions/hypothesis

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14

# H

### **Research Question or Hypotheses**

- Research Questions (preferably 1, and maximum 3)
  - generally associated with qualitative or mixed methods research, where the results could be any number of options.
  - research questions need to be aligned with the problem and the Aim, so that the answer to the question addresses the problem.

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### **Research Question or Hypotheses (2)**

### Hypotheses

- are generally associated with quantitative analysis only
- □ usually written in the form of a null hypothesis (that the opposite of the hypothesis is true).
- □ where applicable, state the relationship that you expect to exist between the dependent and the independent variables as clearly as possible.

*Note:* The research questions or hypotheses should be conceptually similar to the project aim.

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16



# **Aim & Objectives**

### Aim

- □ is the broad vision or goal to which the project will contribute, and is a clear and concise statement about the broader purpose of your study
- □a project usually has 1 overarching aim

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17



# Aim & Objectives (2)

### Objectives

- □ are well-defined statements of intended measurable change/information accumulation to be accomplished under the scope of the current project
- □ are measureable steps toward achieving the project
- □ should be very specific and achievable within the study period
- □ worded in such a way that you indicate what you are measuring, how you will measure it, and when it will be achieved (i.e. by the end of the study period)

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# Literature Review

- The literature review of a research proposal has two main purposes:
  - □inform the way you do your study
  - □ provide studies against which you can compare your findings

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19

# **Literature Review (2)**

- Identify research studies that address key elements of your proposed research.
  - □What is known about your topic?



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20

# **Literature Review (3)**

- Spell out previous studies'/authors' arguments and methods:
  - □ Describe key points relevant studies make and how they have come to their conclusions
  - □ Compare what different research studies conclude about the issue
  - □ Describe patterns and strengths in previous research findings
  - □ Describe gaps and weaknesses in previous research findings
  - □ Indicate the methodologies used in other studies

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# **Literature Review (4)**

- Options for organising the literature review
  - geographic: begin your review in a global geographic context, then narrow to developed countries, developing countries, regional, national, and local studies.
  - historical or chronological: trace the history of developments around your research topic and include cutting edge/recent developments
  - □ *thematic:* describe relevant or common themes/findings/patterns in the literature. The themes you describe must be directly related to your aims and objectives.
  - method, approach or model: are there particular methods, models or approaches relevant to your study? Are you testing a model or method that will feature prominently in your study approach?

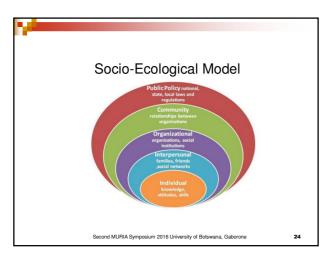
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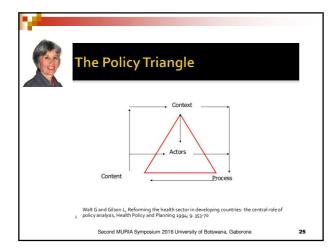
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# Theoretical/Conceptual Framework

- Theory provides an explanatory framework that will help guide you in structuring your work so that you can describe what you observe in the data and identify any associations between variables (though not necessarily causality).
  - ☐ Choose one theory or conceptual framework
  - □ Describe the key points of the theory succinctly
  - $\hfill\Box$  Cite key literature as background to the description of the theory
  - □ Clearly indicate how the theory/framework informs your study design, analysis and conclusions

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# Study Design

- Every sub-heading may not apply to every proposal – but asking about each helps!
- Setting
  - ■Where will your study take place?
- Subjects/Participants
  - □ What/who is your population?
  - □ What/who is your sample?
  - □ Why these participants?
  - What process will you use to recruit study participants?

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26

# Study Design (2)

- Sampling
  - ☐ How will you draw/select your sample? What sampling methods will you use?
  - □Justify the use of the chosen sampling method
  - □ Specify **inclusion** and **exclusion** criteria.
  - □How big will your sample size be and why this size?

This is where help from a statistician is INVALUABLE!

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# Study Design (3)

### ■ Data Collection Tool/Methods

- □ indicate all the collection tools (such as questionnaires) and the type of data that they will collect (demographic, clinical, etc.) include as appendices
- ☐ for questionnaires, indicate the themes that you are going to use to collect the data so that there is a clear link between the content this data collection tool and relevant literature or theory
- if you are collecting both qualitative and quantitative data, be sure to describe the relationship between the two; that is, how collecting one type of data will inform or relate to the other type

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28



# Study Design (4)

### ■ Data Collection Tool/Methods (contd)

- discuss the reliability and validity of instruments and procedures, and of entire method. State whether the tools have been validated. Will the results be generalizable and replicable? Include any tool development steps.
- if you are developing an intervention, describe how you will develop it, what baseline data will be collected, what variables you will be measuring, the control/comparisons.

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29



### ■ Pilot Study

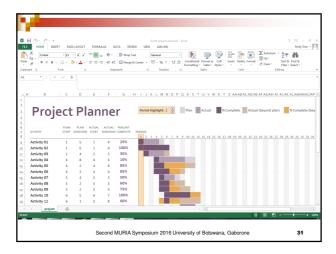
□ On what sample profile and size will you test your data collection tools?

### ■ Timeline

□ Over what period will you collect different types of data? Consider proving a Gantt chart to graphically illustrate your timeline.

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# Study Design (6) Describe the process you will follow to collect the data

- on the tools identified above. This can be described in a number of ways:
  - □ phases or steps: What will data will be collected first and how? What data will be collected second and how? What data will be collected third...
  - □ by objective
  - □ if you are conducting an intervention, clearly describe how it will be administered, how long the intervention will last, (and any standard of care practices that apply), and what safeguards will be in place for those who participate.

# Study Design (7)

### ■ Data Analysis

- □What analytical techniques will you use for the qualitative and quantitative data and why?
- □What statistical techniques will be used, why and what computer packages?
- □How you will evaluate the intervention for impact?
- □What is the planned presentation of the results?

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# Study Design (8)

### Data Management

- □ How will the raw data be treated/managed (data entry, cleaning, etc)?
- ☐ How and where will the data be stored, in what form, who will have access, how long the data will be held and how it will be disposed of?

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34

# Limitations

What factors may impact on your study and how (sample size, funding, time constraints, lost data, inadequate samples)?



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35

### Significance and Novelty of the Work

- Describe how your work will contribute to the existing knowledge or literature on the topic
- Address how your work will fill the gaps in existing knowledge and advance knowledge specifically in your discipline
- Make references to some of the studies that you have mentioned in your literature review and note how your work will complement or contrast with existing findings

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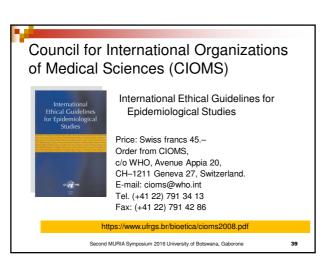
## **Ethical Considerations**

- What ethical considerations are relevant in your study?
- How will participant confidentiality and privacy be assured?
- What informed consent process will you use?
- Are there incentives involved and if so what are the ethical issues around this?
- What ethics approval steps do you anticipate having to follow (include university, other institutional, community, etc) – specific to the country or countries involved
- Does your study have any sponsors? If so, are there any foreseen ethical conflicts regarding source of funding, support or sponsors, and potential results?
- What processes are in place for possible adverse events?

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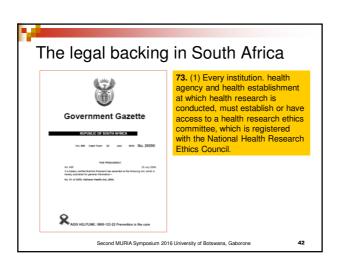
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# Principles guiding research with human participants Regulation 2. Health research that involves human participants must (a) comply with the Department of Health national ethical guidelines for research with human participants at a minimum (b) be responsive to health needs or priorities of the population, participating community or proposed participants; (c) have a valid scientific methodo research questions that are posed logy and be likely to provide ans (d) include a favourable risk-benefit analysis; (e) ensure that the recruitment and selection process is just and fair; (f) be undertaken with appropriate consent processes; (g) undergo independent review by a registered health research ethics committee; (h) respect participants' rights, including but not limited to rights to dignity, privacy, bodily integrity and equality: (i) make provision for compensation for research-related injury, for more than minimal risk research; and (j) be managed by a lead researcher, or person with similar standing or title, with suitable experience and qualifications. Second MURIA Symposium 2016 University of Botswana, Gaborone Confidentiality

# (a) the user consents to that disclosure in writing; (b) a court order or any law requires that disclosure; or

health establishment, is confidential.

National Health Act s14.

(c) non-disclosure of the information represents a

(1) All information concerning a user, including information relating to his or her health status, treatment or stay in a

(2) Subject to section 15, no person may disclose any information contemplated in sub-section (1) unless-

(c) non-disclosure of the information represents a serious threat to public health.

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44



### Access to health records

- 15. (1) A health worker or any health care provider that has access to the health records of a user may disclose such personal information to any other person, health care provider or health establishment as is necessary for any legitimate purpose within the ordinary course and scope of his or her duties where such access or disclosure is in the interests of the user.
- (2) For the purpose of this section, "personal information" means personal information as defined in section 1 of the Promotion of Access to Information Act, 2000 (Act No. 2 of 2000).

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**16.** (1) A health care provider may examine a user's health records for the purposes of-

(a) treatment with the authorisation of the user; and (b) study, teaching or research with the authorisation of the user, head of the health establishment concerned

and the relevant health research ethics committee.

(2) If the study, teaching or research contemplated in subsection (1)(b) reflects or obtains no information as to the identity of the user concerned, it is not necessary to obtain the authorisations contemplated in that subsection.

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### SA MRC 2004 guidelines

Data gathered for administrative purposes or audit does not require the participants' consent if obtaining the consent could cause undue concerns, be impractical or too expensive. However, where publication of audited results may have potentially adverse consequences for study participants or for particular social groups, consent to use such data must be sought. Researchers should always seek the advice of a research ethics committee to decide whether record review requires individual consent.

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47

# 4

# 2004 guideline contd (2)

- A research ethics committee may approve the collection of data from records, either retrospectively or prospectively, that is identified or potentially identifiable if:
  - It is satisfied that the scientific validity of the study would be compromised by de-identifying the data (i.e. that the objectives of the study could not be attained by de-identifying the data), or that
  - An alternative study design which allowed for the use of de-identified data to meet the same objective was not possible, and that confidentiality of data collected could be assured.

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# Y

# 2004 guideline contd (2)

Where data is collected from records, either retrospectively or prospectively, a research ethics committee may approve access to identified or potentially identifiable data without seeking the consent of those whom the data identifies, where the ethics committee is satisfied that:

- The procedures required to obtain consent are likely either:
  - to cause unnecessary anxiety for those whose consent would be sought; or
  - to prejudice the scientific value of the research;
- There will be no disadvantage to the participants, their relatives or any collectivity involved that will compromise their rights and dignity to an extent unreasonable and unjustified in terms of the benefits of the records:
- to an extent unreasonable and unjustified in terms of the benefits of the research;

  It is impossible in practice, due to the quantity, age or accessibility of the records to be studied, to obtain consent; and public interest in the research outweighs to a substantial degree the public interest in privacy.

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49



### **Dissemination**

- How will you make sure people know about your results?
  - □Who are relevant stakeholders?
  - ■What steps or techniques will you use to disseminate the results of your work?
  - ☐ How will participants be informed about the information from the study?

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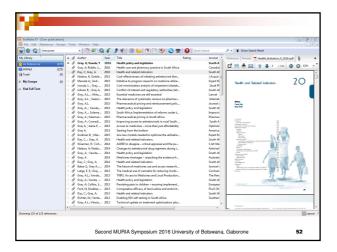
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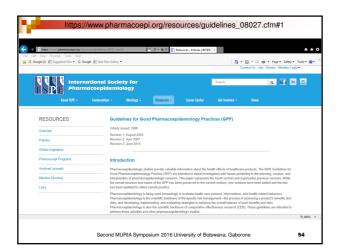
### References

- Be consistent with use of references
  - □Harvard
  - □Vancouver
- Reference manager
  - □Mendeley
  - □Endnote

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# Appendices Provide draft data collection instruments Include examples of consent forms, if applicable to your study Second MURIA Symposium 2016 University of Botswana, Gaborone 53



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•					1
Study title:					
Study reference number:					
Section 1: Milestones	Yes	No	N/A	Page	
1.1 Does the protocol specify timelines for			, **	Number(s)	
1.1.1 Start of data collection <sup>1</sup> 1.1.2 End of data collection <sup>2</sup>					
1.1.3 Study progress report(s) 1.1.4 Interim progress report(s)					
1.1.5 Registration in the EU PAS register 1.1.6 Final report of study results.					
Comments:					
Second MURIA Symposium 2016 University of	Botswana,	Gaboron	e	56	
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					]
•					
Section 2: Research question	Yes	No	N/A	Page Number(s)	
2.1 Does the formulation of the research question and objectives clearly explain:					
2.1.1 Why the study is conducted? (e.g. to address an important public health concern, a risk identified in the risk management plan, an emerging safety issue)					
2.1.2 The objective(s) of the study?					
<ul><li>2.1.3 The target population? (i.e. population or subgroup to whom the study results are intended to be generalised)</li><li>2.1.4 Which formal hypothesis(-es) is (are) to be</li></ul>					
tested? 2.1.5 If applicable, that there is no a priori					
hypothesis? Comments:					
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s the study design described? (e.g. cohort, case-control, andomised controlled trial, new or alternative design)  loses the protocol specify the primary and secondary if applicable) endpoint(s) to be investigated?  loses the protocol describe the measure(s) of effect?
if applicable) endpoint(s) to be investigated?
toos the protocol describe the measure(s) of effect?
e.g. relative risk, odds ratio, deaths per 1000 person-years, soster risk, incidence rate ratio, hazard ratio, umber needed to harm (NHH) per year)
nents:
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Section 4: Source and study populations	Yes	No	N/A	Page Number(s)
4.1 Is the source population described?				
4.2 Is the planned study population defined in terms of: 4.2.1 Study time period? 4.2.2 Age and sex? 4.2.3 Country of origin? 4.2.4 Disease/indication? 4.2.5 Co-morbidity? 4.2.6 Seasonality?				
4.3 Does the protocol define how the study population will be sampled from the source population? (e.g. event or inclusion/exclusion criteria)				

Section 5: Exposure definition and measurement	Yes	No	N/A	Page Number(s)
Does the protocol describe how exposure is defined and measured? (e.g. operational details for defining and categorising exposure)				Number (3)
5.2 Does the protocol discuss the validity of exposure measurement? (e.g. precision, accuracy, prospective				
ascertainment, exposure information recorded before the outcome occurred, use of validation sub-study)				
5.3 Is exposure classified according to time windows? (e.g. current user, former user, non-use)				
5.4 Is exposure classified based on biological mechanism of action and taking into account the pharmacokinetics and pharmacodynamics of the drug?				
5.5 Does the protocol specify whether a dose-dependent or duration-dependent response is measured?				
Comments:				

Does the protocol describe how the endpoints are defined and measured?  Does the protocol discuss the validity of endpoint measurement? (e.g. precision, accuracy, sensitivity, specificity, positive predictive value, prospective or retrospective ascertainment, use of validation sub-study)  mments:  Ction 7: Confounders and effect modifiers  Yes No		Page umber(s)
1 Does the protocol describe how the endpoints are defined and measured?  2 Does the protocol discuss the validity of endpoint measurement? (e.g. precision, accuracy, sensitivity, specificity, positive predictive value, prospective or retrospective ascertainment, use of validation sub-study)  symments:  **Rection 7: Confounders and effect modifiers**  Yes No		Page umber(s)
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omments:  ection 7: Confounders and effect modifiers  Yes No		
	N/A	Page
.1 Does the protocol address known confounders? (e.g. collection of data on known confounders, methods of controlling		umber(s)
for known confounders) 2 Does the protocol address known effect modifiers?	_	
(e.g. collection of data on known effect modifiers, anticipated direction of effect)  omments:		
Second MURIA Symposium 2016 University of Botswana, Gaborone		61
Section 8: Data sources Yes No N/		nge
8.1 Does the protocol describe the data source(s) used in the study for the ascertainment of:	Numi	ber(s)
8.1.1 Exposure? (e.g. pharmacy dispensing, general practice prescribing, claims data, self-report, face-to-face interview, etc.)		
8.1.2 Endpoints? (e.g. clinical records, laboratory markers or values, claims data, self-report, patient interview including scales and questionnaires, vital statistics, etc.)	1	
8.1.3 Covariates?   8.2 Does the protocol describe the information available	]	
from the data source(s) on:  8.2.1 Exposure? (e.g. date of dispensing, drug quantity, dose, number of days of supply prescription, daily dosage, prescriber)	,	
8.2.2 Endpoints? (e.g. date of occurrence, multiple event, severity measures related to event)		
8.2.3 Covariates? (e.g. age, sex, clinical and drug use history, co-morbidity, co-medications, life style, etc.)  8.3 Is a coding system described for:	1	
8.3.1 Diseases? (e.g. International Classification of Diseases (ICD)-10)	1	
8.3.2 Endpoints? (e.g. Medical Dictionary for Regulatory Activities (MedDRA) for adverse events)	]	
8.3.3 Exposure? (e.g. WHO Drug Dictionary, Anatomical Therapeutic Chemical (ATC)Classification System)	]	
8.4 Is the linkage method between data sources described? (e.g. based on a unique identifier or other)	]	
Second MURIA Symposium 2016 University of Botswana, Gaborone		62

Section 11: Data management and quality control	Yes	No	N/A	Page Number(s)
11.1 Is information provided on the management of missing data?				
11.2 Does the protocol provide information on data storage? (e.g. software and IT environment, database				
maintenance and anti-fraud protection, archiving)  11.3 Are methods of quality assurance described?				
11.4 Does the protocol describe possible quality issues				
related to the data source(s)?  11.5 Is there a system in place for independent review				
of study results?  Comments:				
Second MURIA Symposium 2016 University	of Botswana	, Gaboror	ne	64
Section 12: Limitations	Yes	No	N/A	Page
12.1 Does the protocol discuss:				Number(s)
12.1.1 Selection biases? 12.1.2 Information biases?				
(e.g. anticipated direction and magnitude of such biases, validation sub-study, use of validation and external data,				
analytical methods)				
12.2 Does the protocol discuss study feasibility? (e.g. sample size, anticipated exposure, duration of follow-up in a cohort study, patient recruitment)				
cohort study, patient recruitment)	_	_	_	
cohort study, patient recruitment)  12.3 Does the protocol address other limitations?				
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2.3 Does the protocol address other limitations?  Comments:  Second MURIA Symposium 2016 University  Section 13: Ethical issues  13.1 Have requirements of Ethics Committee/Institutional Review Board approval	of Botswana	. Gaboror	ne	Page
2.3 Does the protocol address other limitations?  Comments:  Second MURIA Symposium 2016 University  Section 13: Ethical issues  13.1 Have requirements of Ethics Committee/Institutional Review Board approval been described?  13.2 Has any outcome of an ethical review procedure	of Botswana	No 🗆	N/A	Page
2.3 Does the protocol address other limitations?  Comments:  Second MURIA Symposium 2016 University  Section 13: Ethical issues  13.1 Have requirements of Ethics Committee/Institutional Review Board approval been described?  13.2 Has any outcome of an ethical review procedure been addressed?	Yes	No 🗆	N/A	Page
2.3 Does the protocol address other limitations?  Comments:  Second MURIA Symposium 2016 University  Second MURIA Symposium 2016 University  1.1 Have requirements of Ethics Committee/Institutional Review Board approval been described?  1.3.2 Has any outcome of an ethical review procedure been addressed?  1.3.3 Have data protection requirements been describes	Yes	No 🗆	N/A	Page
2.3 Does the protocol address other limitations?  Comments:  Second MURIA Symposium 2016 University  Section 13: Ethical issues  13.1 Have requirements of Ethics Committee/Institutional Review Board approval been described?  13.2 Has any outcome of an ethical review procedure been addressed?	Yes	No 🗆	N/A	Page
2.3 Does the protocol address other limitations?  Comments:  Second MURIA Symposium 2016 University  Second MURIA Symposium 2016 University  1.1 Have requirements of Ethics Committee/Institutional Review Board approval been described?  1.3.2 Has any outcome of an ethical review procedure been addressed?  1.3.3 Have data protection requirements been describes	Yes	No 🗆	N/A	Page Number(s)
22.3 Does the protocol address other limitations?  Comments:  Second MURIA Symposium 2016 University  Section 13: Ethical issues  13.1 Have requirements of Ethics Committee/Institutional Review Board approval been described?  13.2 Has any outcome of an ethical review procedure been addressed?  13.3 Have data protection requirements been described: Comments:  Section 14: Amendments and deviations  14.1 Does the protocol include a section to document	Yes	No 🗀	N/A	Page Number(s)
2.3 Does the protocol address other limitations?  Comments:  Second MURIA Symposium 2016 University  Second MURIA Symposium 2016 University  13.1 Have requirements of Ethics Committee/Institutional Review Board approval been described?  13.2 Has any outcome of an ethical review procedure been addressed?  13.3 Have data protection requirements been described.  Comments:  Section 14: Amendments and deviations	Yes Yes Yes Yes	No No	N/A	Page Number(s)
2.3 Does the protocol address other limitations?  Comments:  Second MURIA Symposium 2016 University  Second MURIA Symposium 2016 University  13.1 Have requirements of Ethics Committee/Institutional Review Board approval been described?  13.2 Has any outcome of an ethical review procedure been addressed?  13.3 Have data protection requirements been described  Comments:  Section 14: Amendments and deviations  14.1 Does the protocol include a section to document future amendments and deviations?	Yes Yes Yes Yes	No No	N/A	Page Number(s)
2.3 Does the protocol address other limitations?  Comments:  Second MURIA Symposium 2016 University  Second MURIA Symposium 2016 University  1.3.1 Have requirements of Ethics Committee/Institutional Review Board approval been described?  1.3.2 Has any outcome of an ethical review procedure been addressed?  1.3.3 Have data protection requirements been described.  Comments:  Section 14: Amendments and deviations  1.4.1 Does the protocol include a section to document future amendments and deviations?	Yes Yes Yes Yes	No No	N/A	Page Number(s)

Section 15: Plans for communication of study results	Yes	No	N/A	Page Number(s)
15.1 Are plans described for communicating study results (e.g. to regulatory authorities)?				
15.2 Are plans described for disseminating study results externally, including publication?				
Comments:  Name of the main author of the protocol:				
Date: / /				
Signature:				

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Second MURIA Symposium 2016 University of Botswana, Gaborone	68