NIAMS Data and Safety Monitoring (DSM) Report Template for Multi-site Studies

-Closed Session-

DSM Report Template: Instruction Sheet

The following report template is intended to provide guidance and serve as a reference document for investigators, study staff, data managers, study statisticians and others involved in creating and submitting periodic reports to a Monitoring Body (e.g., Data and Safety Monitoring Board, Safety Officer). The proposed structure should be customized based on study design and the type of data collected. Additional or fewer reports may be appropriate, but the template serves as a starting point.

Prior to the first Monitoring Body report, study team members should review this template and customize it to fit the data being collected and reported in accordance with the study protocol. During the introductory call, the designated study team member who is responsible for preparing these reports (i.e., statistician, data manager) should present the customized table shells to the NIAMS and the Monitoring Body. The final format of the reports, tables, and listings will be approved by the Monitoring Body and the NIAMS. This process will ensure the appropriate study data are presented to the Monitoring Body and will promote efficiency in the creation of future safety reports.

The design, scope and nature of a study will impact how data are presented. Outlined below are a few issues that should be considered as this document is tailored:

- For studies in which there are masked treatment groups, the Monitoring Body, at its discretion, may request and review unmasked data in the closed session materials. The decision to present results in an unmasked fashion should be discussed with the NIAMS and the Monitoring Body.
- It is recommended that data stratified by treatment group be masked (i.e., Treatment A versus Treatment B).
- As a general rule, interim results should not be presented unless interim
 analyses are described in the protocol or the Monitoring Body has requested an
 interim analysis to assess a safety concern or study futility. The decision whether
 or not to present interim or final results in this report should be discussed with the
 Monitoring Body and the NIAMS.

Template Recommendations:

- In the following templates, the instructions, explanatory text, and examples are indicated by blue text. Be sure to replace examples with protocol-specific details.
- Instructional text will also be enclosed in {braces} to signify this text for screen-readers used by the visually impaired.
- Delete template-specific instructional text and this Instruction Sheet during the report development process.

Report Cover Page

Protocol Title/number:	<insert of="" protocol="" the="" title=""></insert>
NIH Grant Number:	<insert grant="" number=""></insert>
Principal Investigator (PI):	<name of="" pi<br="">PI's Title Institution Address></name>
Meeting date:	<pre><insert applicable="" date="" if="" meeting,="" of="" scheduled="" the=""></insert></pre>
Date of Report:	<insert being="" date="" is="" issued="" report="" that="" the=""></insert>
Data as of:	<insert analyses="" data="" date="" for="" in="" of="" report="" snapshot="" the="" this=""></insert>
Prepared by:	<name of="" person="" prepared="" report<br="" the="" who="">Person's Title Place of employment Address></name>

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[Study Name], [Principal Investigator][Grant/Contract No.] [Meeting Date] Monitoring Body Report

Summary of Closed Session Report Contents

This section provides a summary of the contents of the Closed Session report. It should include description of data by group and any differences while also noting any changes since the last DSMB meeting (i.e. new tables, figures etc.). Please note or highlight any information that is noteworthy for the DSMB's review.

Study Administration Recruitment and Participant Status: Figures and Tables

Table 1: Participant Enrollment Status by Site and Masked Treatment Group

Data as of:		
Date of report:		

Masked Treatment Group (n=)								Masked Treatment Group (n=)				
		Site 1	Site 2		Total		Site 1		Site 2		Total	
	n	% *	n	% *	n	%*	n	%*	n	%*	n	%*
Enrolled		100		100		100		100		100		100
Active												
Completed Protocol												
	n	%**	n	%* *	n	%**	n	%**	n	%**	n	%**
Discontinued from Treatment/Follow-up Ongoing		100		100		100		100		100		100
Reason 1 ****												
Reason 2												
	n	%***	n	%***	n	%***	n	%***	n	%***	n	%***
Discontinued from Treatment/Follow-up Completed		100		100		100		100		100		100
Reason 1												
Reason 2												
	n	%***	n	%***	n	%***	n	%***	n	%***	n	%***
Discontinued from Study/Follow-up Not Ongoing		100		100		100		100		100		100
Reason 1										ļ		
Reason 2						-						

For some protocols, it is important to distinguish between participants who withdrew early from the study and those who discontinued treatment but may or may not still be followed.

** % of participants who are enrolled.

** % of participants who have discontinued treatment, but continued to be followed as part of the study.

^{*** %} of participants who have discontinued the study and are no longer being followed. **** Reasons should be customized with items relevant to the study protocol.

Table 2: Demographics by Site and Masked Treatment Group

Data as of:	
Date of report:	

		Masked	Masked Treatment Group (n=			Mas	ked Treati	ment Group	(n=)
		Site 1	Site 2	Site i	\	Site 1	Site 2	Site i	
	Characteristics	n (%)	n (%)	n (%)	Total n (%)	n (%)	n (%)	n (%)	Total n (%)
	Total Enrolled:				, ,				•
	Male								
Gender	Female								
	Hispanic or Latino								
	Not Hispanic or Latino								
Ethnicity	Missing								
	American Indian/Alaska Native								
	Asian								
	Black or African American								
	Native Hawaiian or Other Pacific Islander								
	White								
	More than one race								
Race	Missing								
	Grade School								
	High School or equivalent								
	Some college, no degree								
	College degree								
	Graduate degree								
Education	Doctoral								
	Mean								
	Standard Deviation								
	Median								
	Minimum								
Age	Maximum								

^{*} Categories should be customized with items relevant to the study protocol; the items listed are only examples.

Table 3: Key Baseline Characteristics by Site and Masked Treatment Group

Data as of:	
Date of report:	

		Masked Treatment Group (n=)				Masked Treatment Group (n=)			
Characte	ristics*	Site 1 n (%)	Site 2 n (%)	Site <i>i</i> n (%)	TOTAL n (%)	Site 1 n (%)	Site 2 n (%)	Site <i>i</i> n (%)	TOTAL n (%)
	Below 18.5								
	18.5 – 24.9								
	25.0 – 29.9								
Body Mass	30.0 and Above								
Western Ontario and	Mean								
McMaster Universities	Standard Deviation								
Arthritis Index	Median								
(WOMAC)	Minimum								
Total Score	Maximum								

^{*} Characteristics should be customized with items relevant to the study protocol (e.g., stratification variables); the items listed are only examples.

Table 4: Study Duration for All Participants by Masked Treatment Group

Data as of:	
Date of report:	

	Masked T Group (n=_		Masked Treatment Group (n=)			
Time in Study*	Expected**	Actual***	Expected**	Actual***		
Total n=	n (%)	n (%)	n (%)	n (%)		
Visit 1						
Visit 2						
Visit 3						
Visit 4						
Completed Study						

^{*} Should be customized to visit schedule and can be shown by visits, days, weeks, months, or treatment periods.

^{**} Number of participants expected to complete each study milestone.

^{***} Number of participants who completed each study milestone.

Study Administration Data Quality Table

Table 5: Summary of Missed Visits by Site and Masked Treatment Group

Data as of:	
Date of report:	

	Masked T	reatment G (n=)	roup	Masked Treatment Group (n=)			
	Site 1	Site 2	Total	Site 1 Site 2 Total			
Missed Visits	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	
Number of Completed Participants							
Number of Participants Missing Visits							
Number of Missed Visits							
Average Number of Missed Visits for Completed Participants							
Number of Active Participants							
Number of Participants Missing Visits							
Number of Missed Visits							
Average Number of Missed Visits for Active Participants							

{This table should display the number of participants missing visits and the number of actual missed visits divided by those who are currently active on the protocol and those who completed.}

Safety Assessments for All Participants:

Tables and Listings

Table 6: Incidence of Adverse Events by Body System and Preferred Term and Masked Treatment Group

Data as of:	
Date of report:	

	Masked	Treatment (Group	Masked Treatment Group (n=)					
Body System and Preferred		Total N=	_		Total N=				
Term*	n**	(%)***	Events****	n**	(%)***	Events****			
Overall									
Body System 1*****									
Preferred Term 1									
Preferred Term 2									
etc.									
Body System 2									
Preferred Term 1									
Preferred Term 2									
etc.									
Body System 3									
etc.									

{Standard medical terminology should be used when recording AEs. Furthermore, it is recommended that studies that plan to submit data to regulatory authorities should code their AE data using an electronic coding system such as the Medical Dictionary for Regulatory Activities (MedDRA) or the Common Terminology Criteria for Adverse Events (CTCAE).

^{*}The Preferred Term is a distinct descriptor (single medical concept) for a symptom, sign, disease, diagnosis, therapeutic indication, investigation, surgical, or medical procedure, and medical, social, or family history characteristics

^{**} Number of participants experiencing an AE (participant is to be counted only once for each adverse event).

^{*** %} of total number of participants in the study.

^{****} Number of events for Body System and Preferred Term.

^{*****} Body Systems may include: Blood and lymphatic system disorders; Cardiac disorders; Congenital, familial and genetic disorders; Ear and labyrinth disorders; Endocrine disorders; Eye disorders; Gastrointestinal disorders; General disorders and administration site conditions; Hepatobiliary disorders; Immune system disorders; Infections and infestations; Injury, poisoning and procedural complications; Investigations; Metabolism and nutrition disorders; Musculoskeletal and connective tissue disorders; Neoplasms benign, malignant and unspecified (incl cysts and polyps); Nervous system disorders; Pregnancy, puerperium and perinatal conditions; Psychiatric disorders; Renal and urinary disorders; Reproductive system and breast disorders; Respiratory, thoracic and mediastinal disorders; Skin and subcutaneous tissue disorders; Social circumstances; Surgical and medical procedures; Vascular disorders.

Table 7: Severity of Adverse Events by Preferred Term and Masked Treatment Group

Data as of:	
Date of report: _	

	Maske	d Treatment (Total n=		Masked Treatment Group Total n=				
Preferred	Mild	Moderate	Severe	Mild	Moderate	Severe		
Term*	n** (%)***	n (%)	n (%)	n** (%)***	n (%)	n (%)		
Preferred Term 1								
Preferred Term 2								

^{*}For each preferred term, sort by most common event in descending order of incidence.

^{**}Number of participants experiencing a certain severity of an adverse event where each participant is counted only once at highest level of severity.

^{***%} of participants experiencing a certain severity of an adverse event.

Listing 1: Adverse Events by Site and Masked Treatment Group

Data as of:	
Date of report:	

Site	Participant ID	Masked Treatment Group	Age	Gender	Event Term	AE Onset Date	AE Stop Date	Study Intervention Start Date	Study Intervention Stop Date	Relationship*	Participant discontinued from intervention?	Expected (Y/N)	Severity**	Outcome***	Serious (Y/N)

^{*} Relationship should be specifically defined for each study (i.e., Relationship to intervention, Relationship to study drug, etc.) The following are commonly used categories: Definitely, Probably/Possibly, Not Related

Recovered, without treatment
Recovered, with treatment
Still Present, no treatment
Still Present, being treated
Residual effect(s) present-no treatment
Residual effect(s) present-being treated
Subject died

^{**} The following are commonly used categories: Mild, Moderate, Severe.

^{***} Outcome:

[Study Name], [Principal Investigator][Grant/Contract No.] [Meeting Date] Monitoring Body Report

Listing 2: Serious Adverse Events by Site and Masked Treatment Group*

Data as of:		
Date of report:		

Site	Participant ID	Masked Treatment Group	Age	Gender	Event Term	Study Intervention Duration**	Study Intervention Start Date	Study Intervention Stop Date	SAE Onset Date	SAE Stop Date or Ongoing	Relationship to Study***	Expected? (Yes/No)	Outcome	Unanticipated Problem?**** (y/n)
										·				

^{*} This listing can be sorted by SAE Description or by Participant ID.

**** Outcome:

Recovered, without treatment

Recovered, with treatment

Still Present, no treatment

Still Present, being treated

Residual effect(s) present-no treatment

Residual effect(s) present-being treated

Subject died

*****The incident must meet the following criteria to qualify as an Unanticipated Problem:

- was unexpected in terms of nature, severity, or frequency
- is definitely or possibly related to participation in the research
- suggests that the research places subjects or others at a greater risk of harm than was previously known or recognized

NOTE: All AEs in Listing 1 that have been designated as an SAE ("Y") should be also listed on this Listing.

^{**} The number of days on study treatment at the onset of the SAE.

^{***} Relationship should be specifically defined for each study (i.e., Relationship to intervention, Relationship to study drug, etc.) The following are commonly used categories: Definitely, Probably/Possibly, Not Related.

Listing 3: Deaths by Site and Masked Treatment Group

Data as of:	
Date of report:	

Site	Participant ID*	Masked Treatment Group	Gender	Age	Date Enrolled	Date of Death	Study Intervention Start Date	Study Intervention Stop Date	Cause of Death	Relationship **

^{*} It is expected that individuals will be listed on Listing 1: Adverse Events, Listing 2: Serious Adverse Events and the more detailed Listing 3: Deaths by Site.

^{**} The following are commonly used categories for relationship: Definitely, Probably/Possibly, Not Related.

Table 8: Laboratory Test Results Summary by Masked Treatment Group*

Data as of:		
Date of report:		

	Masked									С	hange fr	om Baseli	ne	
Laboratory Test	Treatment Group	Study Visits	n	Mean	SD	Median	Min	Max	n	Mean	SD	Median	Min	Max
Test 1	(n=)	Screening												
		Visit 1												
		Visit 2												
	(n=)	Screening												
		Visit 1												
		Visit 2												
Test 2	(n=)	Screening												
		Visit 1												
		Visit 2												
	(n=)	Screening												
		Visit 1												
		Visit 2												
etc														

^{*} Table may include lab test results that are clinically significant, as defined by the protocol, or ALL lab test results.

Table 9a- 9i: Laboratory Test Results Summary by Site and by Masked Treatment Group*

Data as of:		
Date of report:		

									Change from Baseline				ine		
Laboratory Test**	Normal Range	Masked Treatment Group	Study Visits	n	Mean	SD	Median	Min	Max	n	Mean	SD	Median	Min	Max
Test 1		(n=)	Screening												
			Visit 1												
			Visit 2												
		(n=)	Screening												
			Visit 1												
			Visit 2												
Test 2		(n=)	Screening												
10012		(/	Visit 1												
			Visit 2												
		(n=)	Screening												
			Visit 1												
			Visit 2												
etc															

^{*} One table for each site.

^{**} Table may include lab test results that are clinically significant, as defined by the protocol, or ALL lab test results.

Listing 4: Clinically Significant Abnormal Lab Values by Site and Masked Treatment Group

Data as of:		
Date of report: _	_	

Site	Participant ID	Masked Treatment Group	Study Visit	Lab Test	Baseline Result	Current Result	% Change from Baseline	Normal Range

{Lab tests that are deemed clinically significant as specified in the study protocol should be listed along with baseline result and normal range as stated by the study lab.}

Listing 5: Unanticipated Problems by Masked Treatment Group

Data as of:	
Date of report:	

Site	Date UP Identified	Date of UP incident	UP Description*	Subject ID (or describe group affected)	Masked Treatment Group (if applicable)**	Action taken*** (1 -10, include all that apply)	Action taken, specify	SAE? (yes/no)	Reported to the IRB? (yes/no)	IRB action required? If yes, describe response from IRB (attach correspondence, if necessary)

{The incident must meet the following criteria to qualify as an Unanticipated Problem:

- was unexpected in terms of nature, severity, or frequency
- is definitely or possibly related to participation in the research
- suggests that the research places subjects or others at a greater risk of harm than was previously known or recognized}

*Describe harm or potential harm that occurred to subject(s), whether the incident is resolved, and whether the subject(s) remains in the study. If the Unanticipated Problem is a serious adverse event, submit this form and complete the Serious Adverse Event form.

**If the Unanticipated Problem affects a particular group in the study, please identify that group, i.e., subjects in Treatment Group A, subjects enrolled before January 1, 2014, etc. If a group of individuals affected is across more than one treatment group, it may not be possible to complete this field.

***Action taken with the study as a result of the Unanticipated Problem? (include all that apply):

- 1- No action
- 2- Revise protocol to eliminate apparent immediate hazards to subjects
- 3 Modification of inclusion or exclusion criteria to mitigate newly identified risks
- 4 Implementation of additional procedures for monitoring subjects
- 5 Suspension of enrollment of new subjects
- 6 Notify currently enrolled subjects

- 7- Suspension of research procedures in currently enrolled subjects
- 8 Modification of consent documents to include a description of newly recognized risks (site and/or study wide)
- 9 Provision of additional information about newly recognized risks to previously enrolled subjects
- 10 Other, specify

Listing 6: Protocol Deviations by Masked Treatment Group

Data as of:		
Date of report:		

Site	Participant ID	Masked Treatment Group	Deviation Date	Deviation Description*	Deviation Category**
-			_		

^{*}Deviation Description - record what occurred and why. For example, an expired drug was used by a new coordinator who did not check the expiration date. The description should also include remedies taken. In this case, the participant/subject was called to return the drug and was issued unexpired medication.

^{**}Deviation Category – provide a category of the protocol deviation description. Example deviation categories include: Randomization of ineligible participant; Failure to obtain consent; Participant seen outside window of follow-up; Not reporting serious adverse event.