

# **Baseline Characteristics Module**

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### **Outline**

- Overview of Baseline Characteristics module
- Required data elements
- ClinicalTrials.gov review criteria
- Examples

### **Purpose**

The Baseline Characteristics module is designed to summarize important attributes of the participants enrolled at the start of the study.

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### **FDAAA\*** Provision

"A table of the demographic and baseline data collected overall and for each arm of the clinical trial..."

[Sec. 282(j)(3)(C)(i)]

\*Food and Drug Administration Amendments Act of 2007

# **Description of Baseline Characteristics Module**

- Table of demographic and baseline data for the entire trial population and for each arm or comparison group
- Accommodates different data types:
  - Continuous: measure of central tendency (e.g., mean) and measure of dispersion (e.g., standard deviation)
  - Categorical: for each category (1) a count or (2) measure of central tendency and measure of dispersion

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### "Table 1" Journal Article Format

Table 1. Baseline characteristics of the modified intention-to-treat population in a phase II randomized trial of amphotericin B alone or combined with fluconazole in the treatment of human immunodeficiency virus (HIV)-associated cryptococcal meningitis.

Variable	AmB (n = 46)	AmB+Fluc400 (n = 48)	AmB+Fluc800 (n = 41)
Country			
Thailand	32 (69.6)	34 (70.8)	31 (75.6)
United States	14 (30.4)	14 (29.2)	10 (24.4)
Age, mean years ± SD	36.5 ± 8.52	36.4 ± 8.69	35.8 ± 9.36
Sex			
Male	30 (65.2)	31 (64.6)	26 (63.4)
Female	16 (34.8)	17 (35.4)	15 (36.6)
Race			
Asian/Thai	32 (69.6)	34 (70.8)	31 (75.6)
Black	8 (17.4)	10 (20.8)	3 (7.3)
White	4 (8.7)	4 (8.3)	6 (14.6)
Other	2 (4.4)	0	1 (2.4)
CD4* T cell count, median cells/mm³ (range)	18 (1-123)	17 (0-80)	15 (0-94)
Viral load, median copies/mL (range)	272,000 (400-1,342,580)	369,000 (50-1,000,000)	169,000 (216-1,000,00
Opening pressure			
>250 mm CSF	22 (47.8)	26 (54.2)	22 (53.7)
≤250 mm CSF	20 (43.5)	19 (39.6)	17 (41.5)
Not done	4 (8.7)	3 (6.3)	2 (4.9)
CSF cryptococcal antigen titer, median (range)	2048 (4-32768)	1024 (4-71024)	1024 (4-16384)
MMSE, mean score ± SD	25.5 ± 5.21	25.3 ± 5.07	23.4 ± 7.25
Received prestudy fluconazole and/or flucytosine <sup>a</sup>			
Yes	6 (13.0)	4 (8.3)	2 (4.9)
No	40 (87.0)	44 (91.7)	39 (95.1)
Receipt of antiretroviral therapy			
Yes	5 (10.9)	3 (6.2)	3 (7.3)
No	41 (89.1)	45 (93.8)	38 (92.7)

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Pappas PG, Chetchotisakd P, Larsen RA et al. Clin Infect Dis. 2009

# **ClinicalTrials.gov Format**

### **Baseline Measures**

	AmphoB Standard	AmphoB+Fluc400	AmphoB+Fluc800	Total
Number of Participants	45	47	49	141
Age, Categorical				
[units: participants]				
<= 18 years	0	0	1	1
Between 18 and 65 years	45	47	47	139
>=65 years	0	0	1	1
Age, Continuous [units: years] Mean ± Standard Deviation	37.1 ± 8.47	36.5 ± 8.21	35.9 ± 9.44	36.5 ± 8.69
Gender [units: participants]				
Female	16	15	18	49
Male	29	32	31	92
Region of Enrollment [units: participants]				
United States	14	14	14	42
Thailand	31	33	35	99

NCT00145249

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### **Data Elements**

### General

- Arm/Group\*
  - Title
  - Description
- Overall # of Baseline Participants\* (per Arm/Group)

# For each Baseline Measure:

- Baseline Measure Title\*
- Baseline Measure Description
- Measure Type\*
- Measure of Dispersion\*
- Unit of Measure\*
- Data\* (per Arm/Group and Total)

\*Required by ClinicalTrials.gov

### **Default Tables Provided**

- Age\* (Continuous; Categorical; or Customized)
- Gender\* (Female, Male; or Customized)
- Race (NIH/OMB; or Customized)
- Ethnicity (NIH/OMB; or Customized)
- Region of Enrollment

\*Required by ClinicalTrials.gov

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# **Basic Information Needed**

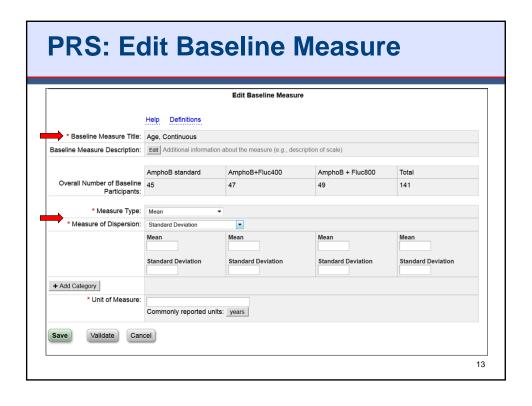
	Arm Title*	Arm Title*	Total
	Arm Description	Arm Description	
Overall Number of Baseline Participants*	# participants	# participants	[calculated]
Baseline Measure Title*			
Baseline Measure Description			
Units of Measure*			
Measure Type* (select one)			
Number			
Mean			
Median			
Least Squares Mean			
Geometric Mean			
Log Mean			
Measure of Dispersion* (select one)			
Not Applicable (when Measure Type = Number)			
Standard Deviation			
Interquartile Range (25th, 75th)			
Full Range (low value, high value)			

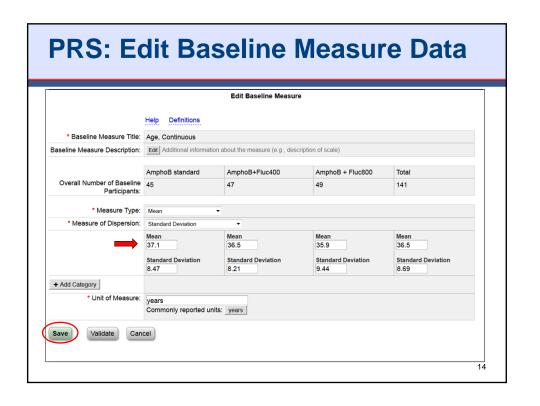
### **Best Practices**

- Minimum requirements
  - Age and Gender
- Region of Enrollment
- Other relevant demographic characteristics
- Clinical measures relevant to study, such as
  - Clinical characteristics, including baseline values of outcome measures
  - Prior and concurrent treatment characteristics

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# PRS: Edit Baseline Participants Edit Baseline Analysis Population Help Definitions AmphoB standard AmphoB+Fluc400 AmphoB + Fluc800 \*Overall Number of Baseline Participants: Tip: Compare number of baseline participants with numbers in Participant Flow Characters remaining: 350 Baseline Analysis Population Description: Save Cancel





### **General Review Criteria**

- Abbreviations are expanded first time used
- No spelling errors exist
- Arms/Groups
  - Informative Titles ("Arm," "Period," "Milestone")
  - Arm/Group Descriptions are descriptive; contain information about the interventions administered (e.g., dosage, dosage form, frequency of administration) or groups evaluated
- Information is consistent with other sections of record (or discrepancies explained)
- No written results or conclusions

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### **Specific Review Criteria**

- Overall Number of Baseline Participants is consistent with the Number STARTED in the Participant Flow module
  - If not consistent, explanatory comments are provided in Baseline Analysis Population Description
- Unit of Measure is consistent with Baseline Measure Title
  - E.g., Baseline Measure Title of "Age" should have Unit of Measure of "Years, Months, etc."
- · Data appear valid

Arm/Group Title ▶ Arm/Group Description		AmphoB+Fluc400 Amphotericin B 0.7 mg/kg and the ra	AmphoB + Fluc800 Amphotericin B 0.7 mg/kg and the ra	Total
Overall Number of Baseline Participants	45	47	49	141
Baseline Analysis Population Description				
units: participants Measure Type: Number	_			
<=18 years		0 47	1 47	1 139
Between 18 and 65 years >=65 years		0	1	1

### **Example – Error Baseline Measures** Drug X **Number of Participants** 10 Age, Categorical [units: participants] <= 18 years 0 Between 18 and 65 2 >=65 years 8 Age, Continuous [units: years] Mean ± Standard Deviation 12.5 ± 7.55 Gender [units: participants] 49 Female Male 92 The Mean Age ("12.5 years") is inconsistent with the data provided for Age, Categorical (0 participants were <=18 years and 8 of 10 participants were 65 years of age or older). Please review and revise as appropriate.

### **Example – Error**

	Double-blind Placebo Patch	Double-blind Drug X Patch	Total
Age, Continuous [units: participants] Mean ± Standard Deviation	61.2 ± 11.36	59.4 ± 9.56	60.3 ± 10.45

#### Comments

Baseline Measure Title (Age, Continuous) and Units of Measure ("participants") are inconsistent. It appears that the units should be "years" instead of "participants". Please review and revise as appropriate.

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## **Specific Review Criteria (cont'd)**

- Categorical data
  - Categories do not overlap and all possible categories are presented
  - If "Number" is the Measure Type and "participants" are Unit of Measure, the total number of participants in each Arm/Group matches Overall Number of Baseline Participants
    - If not matching, explanatory comments are provided
  - Unit of Measure is specified in the Category
     Title (e.g., "years" for categories of age)

### **Specific Review Criteria (cont'd)**

- Continuous measures (e.g., mean, median)
  - Total column is completed; zeros may not be entered unless the actual value of the measure is zero
- For measures obtained using a scale:
  - Name of scale is provided in Baseline Measure Title
  - Range and direction of scores (0 = worst; 10 = best)
     are indicated in Baseline Measure Description
  - Unit of Measure is "units on a scale," if no other unit
- Preferred formatting for Unit of Measure of study participants is "participants" (e.g., instead of "number of participants")

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### **Example – Error**

### **Baseline Measures**

	Drug X
GOG Performance Status	
[units: participants]	
0	48
1	27
2	4

# **Example – Corrected**

### **Baseline Measures**

	Drug X
Gynecological Oncology Group (GOG) Performance Status [1]	
[units: participants]	
0 – Fully Active	48
1 – Restricted Strenuous Activity, Ambulatory	27
2 – Ambulatory, Difficulty Walking	4
3 – Limited Self-Care, Partly Confined to Bed	0
4 – Completely Disabled, No Self-Care	0

<sup>[1] 5-</sup>point, ordinal scale specifying patient's ability to perform activities from 0 (fully active) to 4 (completely disabled, no self-care)

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### **Additional Information**

General ClinicalTrials.gov information:

http://clinicaltrials.gov

FDAAA-related information (see Submit Studies):

http://clinicaltrials.gov/manage-recs/fdaaa

Office of Extramural Research:

http://grants.nih.gov/Clinicaltrials\_fdaaa/

Questions?

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