Sample table shells for hemoglobin data quality checks

NOTES FOR USE:

- 1. Fill in relevant population (ex: Children 6 to 59 months) and survey name/year (ex: Burkina Faso National Micronutrient Survey, 2020) in the spaces indicated by: [population] and [survey name and year], respectively.
- 2. Add rows as needed location, age groups, team numbers, and Hemocue numbers (ex: a survey with 12 Hemocues would need 12 rows) for each table.
- 3. Change notation about elevation adjustments in Tables 1 and 5 to reflect whether/how hemoglobin was adjusted for elevation.

Table 1: Percent of Missing and Biologically Implausible Value (BIV) of Hemoglobin in [population], [survey name and year]

Characteristics	N	Missing ^a %	N	Biologically Implausible Value (BIV) ^b %
Age, months				
Age group 1				
Age group 2				
Age group 3				
Sex				
Male				
Female				
Residence				
Urban				
Rural				
Location				
х				
у				
z				
Wealth Quintile				
Lowest				
Second				
Middle				
Fourth				
Highest				
Team				
Team 1				
Team 2				
Team 3				
Team 4				
Team 5				
Team 6				
Team 7				
Team 8				
Total				

Note: Unweighted estimates. BIV is defined as an adjusted hemoglobin concentration <4 g/dL or >18 g/dL (Sullivan *et al.*, 2008). Elevation adjustments were made according to 2024 Guidelines (World Health Organization, 2024).

^aPercentage of missing values among all [population] with completed interviews.

^bPercentage of BIV among [population] with completed interviews and non-missing hemoglobin concentrations.

Table 2: Percent of Digit Preference in Hemoglobin Values in [population], [survey name and year]

Digit preference for hemo						noglobin values					
Characteristics	n	0, %	1, %	2, %	3, %	4, %	5, %	6, %	7,%	8, %	9, %
Age, months											
Age group 1											
Age group 2											
Age group 3											
Sex											
Male											
Female											
Residence											
Urban											
Rural											
Location											
x											
Υ											
Z											
Team											
Team 1											
Team 2											
Team 3											
Team 4											
Team 5											
Team 6											
Team 7											
Team 8											
HemoCue											
HemoCue 1											
HemoCue 2											
HemoCue 3											
HemoCue 4											
HemoCue 5											
HemoCue 6											
HemoCue 7											
HemoCue 8											
Total											
	•										

Note: Unweighted estimates. Hemoglobin concentrations include biologically implausible values (ie., hemoglobin concentration <4 g/dL or >18 g/dL, Sullivan *et al.*, 2008).

Table 3: Mean, Median, Standard Deviation (SD), Minimum (Min) and Maximum (Max) of Hemoglobin Concentrations, Including Biologically Implausible Values, in [population], [survey name and year]

Characteristics	n	Hemoglobin concentration (g/dL)				
		Mean	Median	SD ^a	Min-Max	
Age, months						
Age group 1						
Age group 2						
Age group 3						
Sex						
Male						
Female						
Residence						
Urban						
Rural						
Location						
x						
У						
Z						
Wealth Quintile						
Lowest						
Second						
Middle						
Fourth						
Highest						
Total						

Note: Unweighted estimates. Hemoglobin concentrations include biologically implausible values (ie., hemoglobin concentration <4 g/dL or >18 g/dL).

^aA standard deviation between 1.1 and 1.5 is considered to be acceptable (Sullivan, 2008).

Table 4: Mean, Median, Standard Deviation (SD), Minimum (Min) and Maximum (Max) of Hemoglobin Concentrations, Excluding Biologically Implausible Values, in [population], [survey name and year]

Characteristics	n	Hemoglobin concentration (g/dL)				
		Mean	Median	SDa	Min-Max	
Age, months						
Age group 1						
Age group 2						
Age group 3						
Sex						
Male						
Female						
Residence						
Urban						
Rural						
Location						
x						
У						
Z						
Wealth Quintile						
Lowest						
Second						
Middle						
Fourth						
Highest						
Total						

Note: Unweighted estimates. Hemoglobin concentrations exclude biologically implausible values (ie., hemoglobin concentration <4 g/dL or >18 g/dL).

^aA standard deviation between 1.1 and 1.5 is considered to be acceptable (Sullivan, 2008).

Table 5: Skew and Kurtosis of Hemoglobin Concentrations, Including and Excluding Biologically Implausible Values (BIV), in [population], [survey name and year]

Characteristics	_	lobin conco including B (g/dL)	•	Hemoglobin concentration, excluding BIV (g/dL)			
	n	Skew ^a	Kurtosis ^b	n	Skew ^a	Kurtosis ^b	
Total							

Note: Unweighted estimates. BIV is defined as hemoglobin concentration <4 g/dL or >18 g/dL. Elevation adjustments were made according to 2024 Guidelines (World Health Organization, 2024). aSkew is considered acceptable in the range -0.5 to 0.5.

^bKurtosis is considered acceptable in the range 2 to 4.