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to Appendix E v1.18.11**

Chapter	Section	Page(s) in version 1.18.11	Change
App. E	—	—	Updated language throughout to be gender neutral.
App. E	—	E-1–E-15	Updated header. **CMS's RAI Version 3.0 Manual Appendix E: PHQ9 and BIMS**
App. E	—	E-1	## APPENDIX E: PATIENT HEALTH QUESTIONNAIRE (PHQ)-9 SCORING RULES AND INSTRUCTION FOR BIMS (WHEN ADMINISTERED IN WRITING)
App. E	—	E-1	### Scoring Rules: Resident Mood Interview Total Severity Score D030160 • Item D030160 is used to store the total severity score for the Resident Mood Interview. The score in item D030160 is based upon the sum of the values that are contained in the following nine items: D020150A2, D020150B2, D020150C2, D020150D2, D020150E2, D020150F2, D020150G2, D020150H2, D020150I2. These are referred to as the "items in Column 2", below.

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App. E	—	E-1	• Scoring of items evaluated in D0150A–D0150I is dependent on the completion of these items following instructions for the PHQ-2 to 9©. Whether or not further evaluation of a resident's mood is needed depends on the resident's responses to the first two questions (D0150A and D0150B). If **both** D0150A1 and D0150B1 are coded 9, OR **both** D0150A2 and D0150B2 are coded 0 or 1, **end** the PHQ interview; otherwise continue. If **both** D0150A1 and D0150B1 are coded 9, leave D0150A2 and D0150B2 **blank**, then end the PHQ-2© and leave D0160, Total Severity Score blank. If **both** D0150A2 and D0150B2 are **coded 0 or 1**, then end the PHQ-2© and enter the total score from D0150A2 and D0150B2 in D0160, Total Severity Score. For all other scenarios, proceed to ask the remaining seven questions (D0150C to D0150I of the PHQ-9©) and complete D0160, Total Severity Score.
			• The following rules explain how to compute the score that is placed in item D0~~30~~**16**0. These rules consider the "number of missing items in Column 2" which is the number of items in Column 2 that are ~~either~~**blank** ~~(~~**or** skipped~~)~~ ~~or are equal to dash~~. An item in Column 2 could be ~~skipped~~**blank** if the corresponding item in Column 1 was equal to 9**,** ~~(~~**n**~~N~~o response~~)~~ **or a dash (symptom not assessed)**. ~~An item in Column 2 could be equal to dash if the item could not be assessed for some other reason (e.g., if the resident was unexpectedly discharged before the assessment could be completed).~~

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App. E	—	E-1	• If all of the items in Column 2 have a value of 0, 1, 2, or 3 (i.e., they all contain non-missing values), then item D0~~30~~160 is equal to the simple sum of those values. • If any of the items in Column 2 are blank (or skipped) ~~or equal to dash~~, then omit their values when computing the sum. • If the number of missing items in Column 2 is equal to one, then compute the simple sum of the eight items in Column 2 that have non-missing values, multiply the sum by 9/8 (1.125), and place the result rounded to the nearest integer in item D0~~30~~160.
App. E	—	E-1	• If the number of missing items in Column 2 is equal to **two,** then compute the simple sum of the seven items in Column 2 that have non-missing values, multiply the sum by 9/7 (1.286), and place the result rounded to the nearest integer in item D0~~30~~160. • If the number of missing items in Column 2 is equal to **three or more** ~~but at least one of the items in Column 2 is not equal to dash,~~ then item D0~~30~~160 must equal [99]. ~~**If all of the items in Column 2 are equal to dash,** then enter dash in item D0300.~~

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Chapter	Section	Page(s) in version 1.18.11	Change
App. E	—	E-2	## Example 1: All Items in Column 2 Have Non-missing Values The following example shows how to score the resident interview when all of the items in Column 2 have non-missing values:

Item	Value
D0~~20~~**15**0A2	~~0~~1
D0~~20~~**15**0B2	~~1~~2
D0~~20~~**15**0C2	2
D0~~20~~**15**0D2	~~2~~0
D0~~20~~**15**0E2	3
D0~~20~~**15**0F2	0
D0~~20~~**15**0G2	1
D0~~20~~**15**0H2	3
D0~~20~~**15**0I2	2
D0~~30~~160	**14**

In this example, all of the items in Column 2 have non-missing values (i.e., none of the values are ~~skipped or equal to dash~~blank). Therefore, the value of D0~~30~~**16**0 is equal to the simple sum of the values in Column 2, which is 14.

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Chapter	Section	Page(s) in version 1.18.11	Change
App. E	—	E-2	**Example 2: One Missing Value in Column 2** The following example shows how to score the resident interview when one of the items in Column 2 has a missing value: <table><tr><td>**Item**</td><td>**Value**</td></tr><tr><td>D0~~20~~150A2</td><td>~~0~~1</td></tr><tr><td>D0~~20~~150B2</td><td>~~1~~2</td></tr><tr><td>D0~~20~~150C2</td><td>~~2~~</td></tr><tr><td>D0~~20~~150D2</td><td>2~~0~~</td></tr><tr><td>D0~~20~~150E2</td><td>~~—~~3</td></tr><tr><td>D0~~20~~150F2</td><td>0</td></tr><tr><td>D0~~20~~150G2</td><td>1</td></tr><tr><td>D0~~20~~150H2</td><td>3</td></tr><tr><td>D0~~20~~150I2</td><td>2~~1~~</td></tr><tr><td>**D0~~30~~160**</td><td>**12**</td></tr></table>
App. E	—	E-3	In this example, one of the items in Column 2 (D0~~20~~150~~E~~C2) has a missing value (it is blank ~~or skipped~~) and the other 8 items have non-missing values. D0~~30~~160 is computed as follows: 1. Compute the sum of the 8 items with non-missing values. This sum is 11. 2. Multiply this sum by 1.125. In the example, 11 x 1.125 = 12.375. 3. Round the result to the nearest integer. In the example, 12.375 rounds to 12. 4. Place the rounded result in D0~~30~~160.

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App. E	—	E-3	## Example 3: Two Missing Values in Column 2 The following example shows how to score the resident interview when two of the items in Column 2 ~~have missing values~~are blank: **Item** — **Value** D0~~20~~150A2 — ~~0~~1 D0~~20~~150B2 — ~~1~~2 D0~~20~~150C2 — ~~2~~ D0~~20~~150D2 — ~~2~~0 D0~~20~~150E2 — —3 D0~~20~~150F2 — 0 D0~~20~~150G2 — 1 D0~~20~~150H2 — —1 D0~~20~~150I2 — ~~2~~ **D0~~30~~160** — **10**
App. E	—	E-3	In this example, two of the items in Column 2 have missing values: both D0~~20~~150E~~C~~2 and D0150I2 are~~is~~ blank (or skipped)~~, and D0200H2 is equal to dash~~. The other 7 items have non-missing values. D0~~30~~160 is computed as follows: 1. Compute the sum of the 7 items with non-missing values. This sum is 8. 2. Multiply this sum by 1.286. In the example, 8 x 1.286 = 10.288. 3. Round the result to the nearest integer. In the example, 10.288 rounds to 10. 4. Place the rounded result in D0~~30~~160.

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App. E	—	E-4	## Example 4: Three or More Missing Values in Column 2 The following example shows how to score the resident interview when three or more of the items in Column 2 ~~have missing values and at least one of the values is not equal to dash~~are blank: **Item** — **Value** D0~~20~~150A2 — ~~0~~1 D0~~20~~150B2 — ~~1~~2 D0~~20~~150C2 — 2 D0~~20~~150D2 — ~~2~~0 D0~~20~~150E2 — ~~—~~3 D0~~20~~150F2 — — D0~~20~~150G2 — 1 D0~~20~~150H2 — ~~—~~3 D0~~20~~150I2 — 2 **D0~~30~~160** — **99**
App. E	—	E-4	In this example, three of the items in Column 2 have missing values: D0~~20~~150~~E~~C2, ~~and~~ D0~~20~~150F2, and D0150G2 are blank (or skipped~~), and D0200H2 is equal to dash~~. The other 6 items have non-missing values ~~and at least one of these items is not equal to dash~~. Because three or more items have missing values, D0~~30~~160 is equal to 99.

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Chapter	Section	Page(s) in version 1.18.11	Change
App. E	—	E-4	~~Example 5: All Items in Column 2 Have Dashes~~ ~~The following example shows how to score the resident interview when all of the items in Column 2 have dashes:~~ <table><tr><td>~~Item~~</td><td>~~Value~~</td></tr><tr><td>~~D0200A2~~</td><td>~~—~~</td></tr><tr><td>~~D0200B2~~</td><td>~~—~~</td></tr><tr><td>~~D0200C2~~</td><td>~~—~~</td></tr><tr><td>~~D0200D2~~</td><td>~~—~~</td></tr><tr><td>~~D0200E2~~</td><td>~~—~~</td></tr><tr><td>~~D0200F2~~</td><td>~~—~~</td></tr><tr><td>~~D0200G2~~</td><td>~~—~~</td></tr><tr><td>~~D0200H2~~</td><td>~~—~~</td></tr><tr><td>~~D0200I2~~</td><td>~~—~~</td></tr><tr><td>~~**D0300**~~</td><td>~~—~~</td></tr></table>
App. E	—	E-4	~~In this example, all of the items in Column 2 contain dashes. In this special case, enter a dash in D0300 (enter a single dash in the leftmost space of D0300 and leave the second space blank).~~
App. E	—	E-8	When staff identify that the resident's primary method of communication is in written format, the ==Brief Interview for Mental Status (==BIMS==)== and Category Cues can be administered in writing. **The administration of the BIMS in writing should be limited only to this circumstance.**
App. E	—	E-8	1. Interview any resident not screened out by ==the== **Should Brief Interview for Mental Status Be Conducted?** item (C0100). 2. Conduct the interview in a private setting==, if possible==.