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"COCreate Research EngAgement Together for Equity – COCREATE Survey Engagement Measure"

This measure is designed to assess partner research experiences when individuals are engaged in a highly collaborative process (co-creation), not as study participants but as partners/members. Co-creation in engaged research refers to *' a research partnership involving an equitable, collaborative process reflecting collective goals, knowledges and perspectives."* See the **COCREATE Action Tool** for more information on terms, and on how to use the COCREATE action tool to structure your research partnership group as a Co-creation partnership.

Key Features of the COCREATE Survey

- **Purpose:** Evaluates the experiences of individuals who are engaged as partners/members in research or program evaluation projects
- **Measurement:** Overall scores are calculated as a mean, reflecting the level of agreement on high quality co-creation partner engagement experiences.
- **Versions:** We offer an abbreviated 8-item measure and a comprehensive 19-item measure.
- **Audience:** Can be completed by members of a research partnership group such as community members (e.g., partners from patient advocacy organizations and community leaders), patient partners, healthcare providers/staff, or researchers.

Table 1. Psychometric Properties of the 8-item and the 19-item Survey Versions

Feature	8-item Abbreviated Version	19-item Comprehensive Version
Items	8 short items, rated on a 7-point Likert scale (Strongly Disagree to Strongly Agree)	19 short items, rated on a 7-point Likert scale (Strongly Disagree to Strongly Agree)
Psychometric Properties	The 8-item COCREATE measure demonstrated high internal validity overall for standardized Cronbach coefficient (0.85), and within scales from 0.61 to 0.89 (*)	The 19-item COCREATE measure demonstrated high internal validity overall for standardized Cronbach coefficient (0.94), and within scales from 0.73 to 0.94

*https://bmjopen.bmj.com/content/bmjopen/14/12/e091966.full.pdf '

Pragmatic Qualities:

- No specialized training is needed to administer, score, or interpret the measures.
- Cut-off scores for interpretation not yet available; however, higher scores indicate greater acceptability, appropriateness, or feasibility.
- Norms not yet available.
- There is no cost to use these measures.
- Time to complete: less than 2-3 minutes per measure.

Scoring Instructions for the 8-item COCREATE survey:

1. Scale values range from 1 to 7 based on the Agreement Scale
2. Reverse code items for Co-creation Challenges (questions CC1 and CC2 – see table below)
    a. CC1 reverse coded (CC1r): 8 – CC1 score
    b. CC2 reverse coded (CC2r): 8 – CC2 score
3. Sub-Scales are calculated by taking the mean of each 2-item sub-scale, where responses exist:

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   a. Personal Influence: sum (PI1 + PI2)/2
   b. Respectful Collaboration: sum (RC1 + RC2)/2
   c. Personal Value: sum (PV1 + PV2)/2
   d. Co-Creation Challenges: sum (CC1r + CC2r)/2
4. Use the subscale scores to calculate the Overall COCREATE Score by taking the overall mean across the subscale mean scores.

Note: If any of the survey participants answers 'Not Applicable' for a question, do not include that answer in your mean calculation for that scale or for the overall score. For example, if someone answers 'Not Applicable' for question PV1, and provides a rating of PV2 (i.e., answers from 1 – 7 in the agreement scale), then the mean of that PV scale would only be the number provided in question PV2, and divided by the number of items with an answer.

How to handle missing values? How you and your team approach missingness is based on the purpose of this survey and team decisions on how to use the data as well as full disclosure to partners and funding sources. See next tab for an example of scored surveys using 15 test surveys (fictional data). The last tab presents a template that you can use to enter your data for scoring.

[See next two pages for the COCREATE 8-item survey]

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COCREATE 8-ITEM ABBREVIATED MEASURE:
Thinking about your experiences as a member of [insert your research/project evaluation partnership group name here], please rate how much you agree with each statement below:

Questions	*1` Strongly disagree*	*2 Disagree*	*3 Somewhat Disagree*	*4 Neither Agree nor Disagree*	*5 Somewhat agree*	*6 Agree*	*7 Strongly Agree*	*N/A Not Applicable*
Personal Influence (PI)								
PI1. My ideas guide decision-making within the co-creation process.								
PI2. My input is reflected in the products of the co-creation process.								
Respectful Collaboration (RC)								
RC1. Differing opinions are discussed respectfully among members.								
RC2. The co-creation process is respectful of varied perspectives.								
Personal Value (PV)								
PV1. I want to be part of a similar co-creation process in the future.								
PV2. I am respected by the other members involved in this co-creation process.								
Co-creation Challenges (CC)								
CC1. I have a hard time understanding documents shared with, such as meeting agendas and readings.								
CC2. My viewpoints are requested as a formality								

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PRINTER FRIENDLY VERSION, COCREATE 8-ITEM ABBREVIATED MEASURE:
Instructions: Insert your research/project evaluation partnership group name on the line below:

Thinking about your experiences as a member of _____, please rate how much you agree with each statement below:

Questions	*1` Strongly disagree*	*2 Disagree*	*3 Somewhat Disagree*	*4 Neither Agree nor Disagree*	*5 Somewhat agree*	*6 Agree*	*7 Strongly Agree*	*N/A Not Applicable*
Personal Influence (PI)								
PI1. My ideas guide decision-making within the co-creation process.								
PI2. My input is reflected in the products of the co-creation process.								
Respectful Collaboration (RC)								
RC1. Differing opinions are discussed respectfully among members.								
RC2. The co-creation process is respectful of varied perspectives.								
Personal Value (PV)								
PV1. I want to be part of a similar co-creation process in the future.								
PV2. I am respected by the other members involved in this co-creation process.								
Co-creation Challenges (CC)								
CC1. I have a hard time understanding documents shared with, such as meeting agendas and readings.								
CC2. My viewpoints are requested as a formality								

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Scoring Instructions **for the 19-item** COCREATE comprehensive survey:

1) Scale values range from 1 to 7 based on the Agreement Scale
2) Reverse code items for Co-creation Challenges
    a. CC1 reverse coded (CC1r): 8 – CC1 score
    b. CC2 reverse coded (CC2r): 8 – CC2 score
    c. CC3 reverse coded (CC3r): 8 – CC3 score
3) Score Sub-Scales by taking the mean of each item within the sub-scales, where responses exist:
    a. Personal Influence: sum (PI1 + PI2 + PI3 + PI4) / 4
    b. Respectful Collaboration: sum (RC1 + RC2 + RC3 + RC4 + RC5 + RC6 + RC7 + RC8)/8
    c. Personal Value: Sum (PV1 + PV2 + PV3 + PV4) / 4
    d. Co-Creation Challenges: sum (CC1r + CC2r + CC3r) / 3
5. Create an **Overall COCREATE Score** by taking the overall mean across the subscale mean scores.

Note: If any of the survey participants answers 'Not Applicable' for a question, do not include that answer in your mean calculation for that scale or for the overall score. For example, if someone answers 'Not Applicable' for question PV1, and provides a rating of PV2 (i.e., answers from 1 – 7 in the agreement scale), then the mean of that PV scale would only be the number provided in question PV2, and divided by the number of items with an answer.

How to handle missing values? How you and your team approach missingness is based on the purpose of this survey and team decisions on how to use the data as well as full disclosure to partners and funding sources. See next tab for an example of scored surveys using 15 test surveys (fictional data). The last tab presents a template that you can use to enter your data for scoring.

[See next pages for the COCREATE 19-item survey]

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COCREATE 19-ITEM COMPREHENSIVE MEASURE:

Thinking about your experiences as a member of [insert your research/project evaluation partnership group name here], please rate how much you agree with each statement below:

Questions	*1` Strongly disagree*	*2 Disagree*	*3 Somewhat Disagree*	*4 Neither Agree nor Disagree*	*5 Somewh at agree*	*6 Agree*	*7 Strongly Agree*	*N/A Not Applica ble*
Personal Influence (PI)								
PI1. My ideas guide decision-making within the co-creation process.								
PI2. My input is reflected in the products of the co-creation process								
PI3. My role in the co-creation process is regarded as equally important as other members								
PI4. I have influence within this co-creation process								
Respectful Collaboration (RC)								
RC1. Differing opinions are discussed respectfully among members								
RC2. The co-creation process is respectful of varied perspectives								
RC3. Disagreements among the members are resolved respectfully								
RC4. Members communicate with me in a manner that respects the cultural identity(ies) I identify with most strong								
RC5. Members work together to solve problems raised during discussions								
RC6. The communication in this co-creation process helps develop trust among members								
RC7. Members are working to grow positive relationships during the co-creation process								
RC8. Members regularly set aside time to reflect on the goals and activities of the co-creation process								

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Personal Value (PV)								
PV1. I want to be part of a similar co-creation process in the future								
PV2. I am respected by the other members involved in this co-creation process								
PV3. I am comfortable expressing my opinions during this co-creation process								
PV4. I understand the purpose of this co-creation process								
Co-creation Challenges (CC)								
CC1. I have a hard time understanding documents shared with, such as meeting agendas and readings								
CC2. My viewpoints are requested as a formality								
CC3. The mutual benefits of this co-creation process are not clear								

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PRINTER FRIENDLY VERSION, COCREATE 19-ITEM COMPREHENSIVE MEASURE:
Instructions: Insert your research/project evaluation partnership group name on the line below:

Thinking about your experiences as a member of _____, please rate how much you agree with each statement below:

Questions	*1` Strongly disagree*	*2 Disagree*	*3 Somewhat Disagree*	*4 Neither Agree nor Disagree*	*5 Somewh at agree*	*6 Agree*	*7 Strongly Agree*	*N/A Not Applica ble*
Personal Influence (PI)								
PI1. My ideas guide decision-making within the co-creation process.								
PI2. My input is reflected in the products of the co-creation process								
PI3. My role in the co-creation process is regarded as equally important as other members								
Respectful Collaboration (RC)								
RC1. Differing opinions are discussed respectfully among members								
RC2. The co-creation process is respectful of varied perspectives								
RC3. Disagreements among the members are resolved respectfully								
RC4. Members communicate with me in a manner that respects the cultural identity(ies) I identify with most strong								
RC5. Members work together to solve problems raised during discussions								
RC6. The communication in this co-creation process helps develop trust among members								
RC7. Members are working to grow positive relationships during the co-creation process								
RC8. Members regularly set aside time to reflect on the goals and activities of the co-creation process								
Personal Value (PV)								

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PV1. I want to be part of a similar co-creation process in the future								
PV2. I am respected by the other members involved in this co-creation process								
PV3. I am comfortable expressing my opinions during this co-creation process								
PV4. I understand the purpose of this co-creation process								
Co-creation Challenges (CC)								
CC1. I have a hard time understanding documents shared with, such as meeting agendas and readings								
CC2. My viewpoints are requested as a formality								
CC3. The mutual benefits of this co-creation process are not clear								