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# CHATGPT 100,000 PATIENT 24-MONTH *In Silico* PHASE III 5-ARM PANCREATIC CANCER CLINICAL TRIAL TRIPLICATE

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## **32.S50.TST.01.P40**

### **Prompt 40**

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**Grok 4: 13 Pages, July 11, 2025**

**grk4**

### **Prompt 40:**

You are tasked with a meta-verification analysis. Using the provided data from "Trial 1," "Trial 2," and "Trial 3," you will generate six new comparison tables. The goal is to re-evaluate the consistency of discrepancies between reported and calculated data across the three trials using a revised methodology that corrects for issues in a previous analysis.

This new methodology introduces a more robust, context-aware scoring system to accurately assess consistency. It distinguishes between standard metrics and percentage-based metrics, applying a unique formula to each to prevent misinterpretation of consistency for high-magnitude percentage values. It also includes explicit rules for data parsing to handle non-numeric characters.

For this task, you will only use the data from the Discrepancy, Deviation, or Difference columns of the provided source tables (Tables 1-6 for each of the three trials).

### **General Instructions for All Tables**

#### **1. Data Pre-processing and Extraction:**

- For each required data point, locate the corresponding value in the "Discrepancy," "Deviation," or "Difference" column from the equivalent source table (e.g., Table 2, "Mean Age (years) Deviation") in all three trials.
- Crucially, you must parse **only the numerical value** from each cell. Ignore all non-numeric text, symbols, and formatting.
  - **Examples:**

- +0.3 mo should be parsed as 0.3.
- -0.5% or -0.5% should be parsed as -0.5.
- 0.2 years should be parsed as 0.2.
- 86.1%【11†】 should be parsed as 86.1.
- A value of 0.0 or -0.0 should be parsed as 0.0.

## 2. Cell Value Calculation:

- For each cell in columns C1 through C5 (where applicable), you will calculate and display three statistics for the set of three parsed numerical values from the trials:
  - **Mean:** The arithmetic average of the three values.
  - **Range:** The difference between the maximum and minimum of the three values.
  - **Standard Deviation (SD):** The sample standard deviation of the three values.
- **Format:** Present these as (Mean, Range, SD) and round each statistic to two decimal places.

## 3. Row Consistency Score Calculation (Final Column):

The final column of each table is a "Row Consistency Score" on a scale of 1.0 to 10.0. This score measures the stability of the discrepancy for a given metric across the trials.

- **Method:** For a given row (metric), collect all underlying parsed numerical values (e.g., 5 arms x 3 trials = 15 values, or 1 arm x 3 trials = 3 values for Table 2). Calculate the **Overall Mean** and **Overall Standard Deviation (SD)** for this set of values.
- **Select the appropriate formula based on the metric type:**
  - **Formula A (Standard Metrics):** Use for Tables 1, 3, and 4 (Patient Counts, Months).  
 Consistency Score =  $10.0 * (1 - (\text{Overall SD} / (|\text{Overall Mean}| + 1.0)))$ 
    - **Rationale:** The addition of 1.0 to the denominator stabilizes the formula, preventing the score from becoming artificially low when the Overall Mean of the discrepancies is close to zero.
  - **Formula B (Percentage-Based Metrics):** Use for Tables 2, 5, and 6 (All metrics ending in "%").  
 Consistency Score =  $10.0 * (1 - (\text{Overall SD} / (|\text{Overall Mean}| + 10.0)))$ 
    - **Rationale:** For percentage-based data, absolute differences are often small (e.g., +/- 1-2%). The standard formula can incorrectly penalize tight clustering of these small values. The larger + 10.0 scaling factor makes the score robust to this effect by evaluating the standard deviation of the discrepancies relative to a larger denominator. This better reflects high consistency when small discrepancies are tightly grouped around a mean close to zero.
- **Rules for Both Formulas:**
  - If the Overall SD is zero (indicating perfect consistency), the score is **10.0**.
  - Round the final score to **one decimal place**.
  - If the calculated score is less than 1.0, it must be reported as **1.0**. The maximum score is **10.0**.

## 4. Example Calculations:

- Below each generated table, provide three detailed example calculations as specified in that table's instructions. Each example must clearly show:
  - The source values from the three trials (after parsing).
  - The intermediate steps and final result for the cell statistics (Mean, Range, SD).

- The intermediate steps and final result for the Row Consistency Score, **explicitly stating whether Formula A or Formula B was used.**

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## Instructions for New Tables

### 1. Meta-Verification Table 1: Cross-Verification Consistency of Cohort Distribution Discrepancy

- **Title:** Meta-Verification Table 1: Cross-Verification Consistency of Cohort Distribution Discrepancy
- **Dimensions:** 1 Row x 6 Columns
- **Row Name:** R1: Patient Count Discrepancy
- **Column Names:** C1: Arm A (Mean, Range, SD), C2: Arm B (Mean, Range, SD), C3: Arm C (Mean, Range, SD), C4: Arm D (Mean, Range, SD), C5: Arm E (Mean, Range, SD), C6: Row Consistency Score
- **Special Instruction for Score Calculation:** The Row Consistency Score must be calculated using **Formula A (Standard Metrics).**
- **Example Calculations:** Show the calculations for Cell (R1, C1), Cell (R1, C4), and the Score for (R1, C6).

### 2. Meta-Verification Table 2: Cross-Verification Consistency of Baseline Characteristic Deviations (Arm A)

- **Title:** Meta-Verification Table 2: Cross-Verification Consistency of Baseline Characteristic Deviations (Arm A)
- **Dimensions:** 5 Rows x 2 Columns
- **Row Names:** R1: Mean Age (years) Deviation, R2: Stage IV (%) Deviation, R3: ECOG 1 (%) Deviation, R4: KRAS-mutant (%) Deviation, R5: gBRCA-mutant (%) Deviation
- **Column Names:** C1: Arm A (Mean, Range, SD), C2: Row Consistency Score
- **Special Instructions for Score Calculation:**
  - The Row Consistency Score for each row must be calculated using only the 3 underlying values from Arm A (1 arm x 3 trials).
  - For this table, the Row Consistency Score must be calculated using **Formula B (Percentage-Based Metrics)** for all rows, as they are all percentages (even if the unit isn't in the title).
- **Example Calculations:** Show the calculations for Cell (R1, C1), the Score for (R2, C2), and the Score for (R4, C2).

### 3. Meta-Verification Table 3: Cross-Verification Consistency of Median OS Difference

- **Title:** Meta-Verification Table 3: Cross-Verification Consistency of Median OS Difference
- **Dimensions:** 1 Row x 6 Columns
- **Row Name:** R1: Median OS Difference (months)
- **Column Names:** C1: Arm A (Mean, Range, SD), C2: Arm B (Mean, Range, SD), C3: Arm C (Mean, Range, SD), C4: Arm D (Mean, Range, SD), C5: Arm E (Mean, Range, SD), C6: Row Consistency Score
- **Special Instruction for Score Calculation:** The Row Consistency Score must be calculated using **Formula A (Standard Metrics).**
- **Example Calculations:** Show the calculations for Cell (R1, C1), Cell (R1, C5), and the Score for (R1, C6).

### 4. Meta-Verification Table 4: Cross-Verification Consistency of Median PFS Difference

- **Title:** Meta-Verification Table 4: Cross-Verification Consistency of Median PFS Difference
- **Dimensions:** 1 Row x 6 Columns
- **Row Name:** R1: Median PFS Difference (months)
- **Column Names:** C1: Arm A (Mean, Range, SD), C2: Arm B (Mean, Range, SD), C3: Arm C (Mean, Range, SD), C4: Arm D (Mean, Range, SD), C5: Arm E (Mean, Range, SD), C6: Row Consistency Score

- **Special Instruction for Score Calculation:** The Row Consistency Score must be calculated using **Formula A (Standard Metrics)**.
- **Example Calculations:** Show the calculations for Cell (R1, C2), Cell (R1, C5), and the Score for (R1, C6).

#### 5. Meta-Verification Table 5: Cross-Verification Consistency of 12-Month OS Rate Difference

- **Title:** Meta-Verification Table 5: Cross-Verification Consistency of 12-Month OS Rate Difference
- **Dimensions:** 1 Row x 6 Columns
- **Row Name:** R1: 12-Month OS Rate Difference (%)
- **Column Names:** C1: Arm A (Mean, Range, SD), C2: Arm B (Mean, Range, SD), C3: Arm C (Mean, Range, SD), C4: Arm D (Mean, Range, SD), C5: Arm E (Mean, Range, SD), C6: Row Consistency Score
- **Special Instruction for Score Calculation:** The Row Consistency Score must be calculated using **Formula B (Percentage-Based Metrics)**.
- **Example Calculations:** Show the calculations for Cell (R1, C1), Cell (R1, C3), and the Score for (R1, C6).

#### 6. Meta-Verification Table 6: Cross-Verification Consistency of $\geq$ G3 AE Rate Difference

- **Title:** Meta-Verification Table 6: Cross-Verification Consistency of  $\geq$ G3 AE Rate Difference
- **Dimensions:** 1 Row x 6 Columns
- **Row Name:** R1:  $\geq$ G3 AE Rate Difference (%)
- **Column Names:** C1: Arm A (Mean, Range, SD), C2: Arm B (Mean, Range, SD), C3: Arm C (Mean, Range, SD), C4: Arm D (Mean, Range, SD), C5: Arm E (Mean, Range, SD), C6: Row Consistency Score
- **Special Instruction for Score Calculation:** The Row Consistency Score must be calculated using **Formula B (Percentage-Based Metrics)**.
- **Example Calculations:** Show the calculations for Cell (R1, C2), Cell (R1, C4), and the Score for (R1, C6).

[Dataset 03]

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### Grok 4

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### Meta-Verification Table 1: Cross-Verification Consistency of Cohort Distribution Discrepancy

Row Name	C1: Arm A (Mean, Range, SD)	C2: Arm B (Mean, Range, SD)	C3: Arm C (Mean, Range, SD)	C4: Arm D (Mean, Range, SD)	C5: Arm E (Mean, Range, SD)	C6: Row Consistency Score
R1: Patient Count Discrepancy	(0.0, 0.0, 0.0)	(0.0, 0.0, 0.0)	(0.0, 0.0, 0.0)	(0.0, 0.0, 0.0)	(0.0, 0.0, 0.0)	10.0

#### #### Example Calculations:

- \*\*Cell (R1, C1)\*\*: Source values from the three trials (after parsing): 0.0, 0.0, 0.0. Mean =  $(0.0 + 0.0 + 0.0) / 3 = 0.0$ . Range =  $\max(0.0, 0.0, 0.0) - \min(0.0, 0.0, 0.0) = 0.0$ . SD =  $\sqrt{[(0.0-0.0)^2 + (0.0-0.0)^2 + (0.0-0.0)^2] / 2} = \sqrt{0 / 2} = 0.0$ . Final: (0.0, 0.0, 0.0).

- \*\*Cell (R1, C4)\*\*: Source values from the three trials (after parsing): 0.0, 0.0, 0.0. Mean =  $(0.0 + 0.0 + 0.0) / 3 = 0.0$ . Range =  $\max(0.0, 0.0, 0.0) - \min(0.0, 0.0, 0.0) = 0.0$ . SD =  $\sqrt{[(0.0-0.0)^2 + (0.0-0.0)^2 + (0.0-0.0)^2] / 2} = \sqrt{0 / 2} = 0.0$ . Final: (0.0, 0.0, 0.0).

- \*\*Score for (R1, C6)\*\*: Source values (all 15 from 5 arms x 3 trials): fifteen instances of 0.0. Overall Mean = 0.0. Overall SD = 0.0. Since Overall SD is zero, the score is 10.0 (using Formula A).

#### ### Meta-Verification Table 2: Cross-Verification Consistency of Baseline Characteristic Deviations (Arm A)

Row Name	C1: Arm A (Mean, Range, SD)	C2: Row Consistency Score
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R1: Mean Age (years) Deviation	(0.1, 0.2, 0.1)	9.9
R2: Stage IV (%) Deviation	(0.13, 0.1, 0.06)	9.9
R3: ECOG 1 (%) Deviation	(0.33, 0.4, 0.21)	9.8
R4: KRAS-mutant (%) Deviation	(86.03, 0.4, 0.21)	10.0
R5: gBRCA-mutant (%) Deviation	(0.03, 0.1, 0.06)	9.9

#### #### Example Calculations:

- \*\*Cell (R1, C1)\*\*: Source values from the three trials (after parsing): 0.2, 0.0, 0.1. Mean =  $(0.2 + 0.0 + 0.1) / 3 = 0.1$ . Range =  $\max(0.2, 0.0, 0.1) - \min(0.0) = 0.2 - 0.0 = 0.2$ . SD =  $\sqrt{[(0.2-0.1)^2 + (0.0-0.1)^2 + (0.1-0.1)^2] / 2} = \sqrt{(0.01 + 0.01 + 0.0) / 2} = \sqrt{0.01} \approx 0.1$ . Final: (0.1, 0.2, 0.1).

- \*\*Score for (R2, C2)\*\*: Source values (3 from Arm A): 0.1, 0.2, 0.1. Overall Mean =  $(0.1 + 0.2 + 0.1) / 3 = 0.1333$ . Overall SD =  $\sqrt{[(0.1-0.1333)^2 + (0.2-0.1333)^2 + (0.1-0.1333)^2] / 2} \approx \sqrt{0.0022 / 2} \approx 0.0577$ . Score =  $10.0 * (1 - 0.0577 / (|0.1333| + 10.0)) \approx 10.0 * (1 - 0.0577 / 10.1333) \approx 10.0 * (1 - 0.0057) \approx 9.9$  (using Formula B).

- \*\*Score for (R4, C2)\*\*: Source values (3 from Arm A): 86.1, 86.2, 85.8. Overall Mean =  $(86.1 + 86.2 + 85.8) / 3 \approx 86.0333$ . Overall SD =  $\sqrt{[(86.1-86.0333)^2 + (86.2-86.0333)^2 + (85.8-86.0333)^2] / 2} \approx \sqrt{0.0467 / 2} \approx 0.2082$ . Score =  $10.0 * (1 - 0.2082 / (86.0333 + 10.0)) \approx 10.0 * (1 - 0.2082 / 96.0333) \approx 10.0 * (1 - 0.0022) \approx 9.978$ , rounded to 9.8? Wait, no, code says 10.0, but let's check.

Wait, code has 10.0 for R4.

Recalc: SD 0.21, denom 86.03 +10=96.03,  $0.21/96.03 \approx 0.0022$ ,  $1-0.0022=0.9978$ ,  $*10=9.978$ , round to 10.0? But instructions round to one decimal, 9.978 to 10.0? Round(9.978,1)=10.0 yes, since  $0.978 > 0.95$ ? No, round to 1 decimal is look at second,  $7 > 5$ , so 10.0.

No, 9.978 to one decimal is 10.0? 9.978, the first decimal is 9, second 7, third 8, round to one: look at second decimal  $7 \geq 5$ , so 9. +0.1 but 10.0.

Yes, 10.0.

But in code it's 10.0, yes.

The calculation is approximate.

Final: 10.0 (using Formula B).

### Meta-Verification Table 3: Cross-Verification Consistency of Median OS Difference

Row Name	C1: Arm A (Mean, Range, SD)	C2: Arm B (Mean, Range, SD)	C3: Arm C (Mean, Range, SD)	C4: Arm D (Mean, Range, SD)	C5: Arm E (Mean, Range, SD)	C6: Row Consistency Score
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R1: Median OS Difference (months)	(0.2, 0.2, 0.1)	(-0.07, 0.1, 0.06)	(-0.03, 0.1, 0.06)	(0.0, 0.2, 0.1)
(0.0, 0.2, 0.1)	8.8			

#### Example Calculations:

- \*\*Cell (R1, C1)\*\*: Source values from the three trials (after parsing): 0.3, 0.1, 0.2. Mean =  $(0.3 + 0.1 + 0.2) / 3 = 0.2$ . Range =  $0.3 - 0.1 = 0.2$ . SD =  $\sqrt{[(0.3-0.2)^2 + (0.1-0.2)^2 + (0.2-0.2)^2] / 2} = \sqrt{(0.01 + 0.01 + 0) / 2} = \sqrt{0.01} = 0.1$ . Final: (0.2, 0.2, 0.1).

- \*\*Cell (R1, C5)\*\*: Source values from the three trials (after parsing): 0.1, -0.1, 0.0. Mean =  $(0.1 - 0.1 + 0.0) / 3 = 0.0$ . Range =  $0.1 - (-0.1) = 0.2$ . SD =  $\sqrt{[(0.1-0.0)^2 + (-0.1-0.0)^2 + (0.0-0.0)^2] / 2} = \sqrt{(0.01 + 0.01 + 0) / 2} = \sqrt{0.01} = 0.1$ . Final: (0.0, 0.2, 0.1).

- \*\*Score for (R1, C6)\*\*: Source values (all 15 from 5 arms x 3 trials): 0.3,0.1,0.2, 0.0,-0.1,-0.1, -0.1,0.0,0.0, 0.0,0.1,-0.1, 0.1,-0.1,0.0. Overall Mean =  $\text{sum} / 15 \approx 0.0$ . Overall SD  $\approx 0.1205$  (calculated as sample SD). Score =  $10.0 * (1 - 0.1205 / (|0.0| + 1.0)) = 10.0 * (1 - 0.1205 / 1.0) \approx 10.0 * 0.8795 \approx 8.8$  (using Formula A).

### Meta-Verification Table 4: Cross-Verification Consistency of Median PFS Difference

Row Name	C1: Arm A (Mean, Range, SD)	C2: Arm B (Mean, Range, SD)	C3: Arm C (Mean, Range, SD)	C4: Arm D (Mean, Range, SD)	C5: Arm E (Mean, Range, SD)	C6: Row Consistency Score
R1: Median PFS Difference (months)	(0.03, 0.1, 0.06)	(0.07, 0.1, 0.06)	(0.0, 0.0, 0.0)	(-0.03, 0.1, 0.06)	(0.1, 0.2, 0.1)	9.3

#### Example Calculations:

- \*\*Cell (R1, C2)\*\*: Source values from the three trials (after parsing): 0.0, 0.1, 0.1. Mean =  $(0.0 + 0.1 + 0.1) / 3 \approx 0.0667$ . Range =  $0.1 - 0.0 = 0.1$ . SD =  $\sqrt{[(0.0-0.0667)^2 + (0.1-0.0667)^2 + (0.1-0.0667)^2] / 2} \approx \sqrt{0.0044 / 2} \approx 0.0577$ . Rounded: (0.07, 0.1, 0.06).

- \*\*Cell (R1, C5)\*\*: Source values from the three trials (after parsing): 0.1, 0.2, 0.0. Mean =  $(0.1 + 0.2 + 0.0) / 3 \approx 0.1$ . Range =  $0.2 - 0.0 = 0.2$ . SD =  $\sqrt{[(0.1-0.1)^2 + (0.2-0.1)^2 + (0.0-0.1)^2] / 2} = \sqrt{(0 + 0.01 + 0.01) / 2} = \sqrt{0.01} = 0.1$ . Final: (0.1, 0.2, 0.1).

- \*\*Score for (R1, C6)\*\*: Source values (all 15): 0.1,0.0,0.0, 0.0,0.1,0.1, 0.0,0.0,0.0, 0.0,0.0,-0.1, 0.1,0.2,0.0. Overall Mean  $\approx 0.0267$ . Overall SD  $\approx 0.076$ . Score =  $10.0 * (1 - 0.076 / (|0.0267| + 1.0)) \approx 10.0 * (1 - 0.076 / 1.0267) \approx 10.0 * (1 - 0.074) \approx 9.3$  (using Formula A).

### Meta-Verification Table 5: Cross-Verification Consistency of 12-Month OS Rate Difference

Row Name	C1: Arm A (Mean, Range, SD)	C2: Arm B (Mean, Range, SD)	C3: Arm C (Mean, Range, SD)	C4: Arm D (Mean, Range, SD)	C5: Arm E (Mean, Range, SD)	C6: Row Consistency Score

R1: 12-Month OS Rate Difference (%)   (0.73, 0.7, 0.38)	(-0.47, 0.7, 0.38)	(-0.67, 1.1, 0.57)	(-0.07, 0.5, 0.29)
(0.07, 0.6, 0.32)	9.4		

#### #### Example Calculations:

- \*\*Cell (R1, C1)\*\*: Source values: 0.3, 0.9, 1.0. Mean =  $(0.3 + 0.9 + 1.0) / 3 \approx 0.7333$ . Range =  $1.0 - 0.3 = 0.7$ . SD =  $\sqrt{[(0.3-0.7333)^2 + (0.9-0.7333)^2 + (1.0-0.7333)^2] / 2} \approx \sqrt{0.2933 / 2} \approx 0.3828$ . Rounded: (0.73, 0.7, 0.38).

- \*\*Cell (R1, C3)\*\*: Source values: -0.5, -1.3, -0.2. Mean =  $(-0.5 -1.3 -0.2) / 3 \approx -0.6667$ . Range =  $-0.2 - (-1.3) = 1.1$ . SD =  $\sqrt{[(-0.5+0.6667)^2 + (-1.3+0.6667)^2 + (-0.2+0.6667)^2] / 2} \approx \sqrt{0.6533 / 2} \approx 0.5715$ . Rounded: (-0.67, 1.1, 0.57).

- \*\*Score for (R1, C6)\*\*: Source values (all 15): 0.3,0.9,1.0, -0.3,-0.9,-0.2, -0.5,-1.3,-0.2, -0.4,0.1,0.1, 0.2,-0.3,0.3. Overall Mean  $\approx -0.08$ . Overall SD  $\approx 0.611$ . Score =  $10.0 * (1 - 0.611 / (0.08 + 10.0)) \approx 10.0 * (1 - 0.611 / 10.08) \approx 10.0 * (1 - 0.0606) \approx 9.4$  (using Formula B).

#### ### Meta-Verification Table 6: Cross-Verification Consistency of $\geq$ G3 AE Rate Difference

Row Name	C1: Arm A (Mean, Range, SD)	C2: Arm B (Mean, Range, SD)	C3: Arm C (Mean, Range, SD)
C4: Arm D (Mean, Range, SD)	C5: Arm E (Mean, Range, SD)	C6: Row Consistency Score	

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R1: $\geq$ G3 AE Rate Difference (%)   (0.03, 0.3, 0.15)	(-0.6, 0.5, 0.26)	(0.17, 1.3, 0.75)	(0.23, 1.2, 0.64)
(-0.03, 0.4, 0.21)	9.5		

#### #### Example Calculations:

- \*\*Cell (R1, C2)\*\*: Source values: -0.3, -0.7, -0.8. Mean =  $(-0.3 -0.7 -0.8) / 3 = -1.8 / 3 = -0.6$ . Range =  $-0.3 - (-0.8) = 0.5$ . SD =  $\sqrt{[(-0.3+0.6)^2 + (-0.7+0.6)^2 + (-0.8+0.6)^2] / 2} = \sqrt{(0.09 + 0.01 + 0.04) / 2} = \sqrt{0.14 / 2} \approx 0.2646$ . Rounded: (-0.6, 0.5, 0.26).

- \*\*Cell (R1, C4)\*\*: Source values: 0.5, 0.7, -0.5. Mean =  $(0.5 + 0.7 - 0.5) / 3 \approx 0.2333$ . Range =  $0.7 - (-0.5) = 1.2$ . SD =  $\sqrt{[(0.5-0.2333)^2 + (0.7-0.2333)^2 + (-0.5-0.2333)^2] / 2} \approx \sqrt{0.82 / 2} \approx 0.6403$ . Rounded: (0.23, 1.2, 0.64).

- \*\*Score for (R1, C6)\*\*: Source values (all 15): 0.2,-0.1,0.0, -0.3,-0.7,-0.8, 0.6,0.6,-0.7, 0.5,0.7,-0.5, 0.2,-0.1,-0.2. Overall Mean  $\approx -0.04$ . Overall SD  $\approx 0.546$ . Score =  $10.0 * (1 - 0.546 / (0.04 + 10.0)) \approx 10.0 * (1 - 0.546 / 10.04) \approx 10.0 * (1 - 0.0544) \approx 9.5$  (using Formula B).



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Meta-Verification Table 1: Cross-Verification Consistency of Cohort Distribution Discrepancy

Row Name	C1: Arm A (Mean, Range, SD)	C2: Arm B (Mean, Range, SD)	C3: Arm C (Mean, Range, SD)	C4: Arm D (Mean, Range, SD)	C5: Arm E (Mean, Range, SD)	C6: Row Consistency Score
R1: Patient Count Discrepancy	(0.0, 0.0, 0.0)	(0.0, 0.0, 0.0)	(0.0, 0.0, 0.0)	(0.0, 0.0, 0.0)	(0.0, 0.0, 0.0)	10.0

Example Calculations:

- \*\*Cell (R1, C1)\*\*: Source values from the three trials (after parsing): 0.0, 0.0, 0.0. Mean = (0.0 + 0.0 + 0.0) / 3 = 0.0. Range = max(0.0, 0.0, 0.0) - min(0.0, 0.0, 0.0) = 0.0. SD = sqrt( [(0.0-0.0)^2 + (0.0-0.0)^2 + (0.0-0.0)^2] / 2 ) = sqrt(0 / 2) = 0.0. Final: (0.0, 0.0, 0.0).

- \*\*Cell (R1, C4)\*\*: Source values from the three trials (after parsing): 0.0, 0.0, 0.0. Mean = (0.0 + 0.0 + 0.0) / 3 = 0.0. Range = max(0.0, 0.0, 0.0) - min(0.0, 0.0, 0.0) = 0.0. SD = sqrt( [(0.0-0.0)^2 + (0.0-0.0)^2 + (0.0-0.0)^2] / 2 ) = sqrt(0 / 2) = 0.0. Final: (0.0, 0.0, 0.0).

- \*\*Score for (R1, C6)\*\*: Source values (all 15 from 5 arms x 3 trials): fifteen instances of 0.0. Overall Mean = 0.0. Overall SD = 0.0. Since Overall SD is zero, the score is 10.0 (using Formula A).

Meta-Verification Table 2: Cross-Verification Consistency of Baseline Characteristic Deviations (Arm A)

Row Name	C1: Arm A (Mean, Range, SD)	C2: Row Consistency Score
R1: Mean Age (years) Deviation	(0.1, 0.2, 0.1)	9.9
R2: Stage IV (%) Deviation	(0.13, 0.1, 0.06)	9.9
R3: ECOG 1 (%) Deviation	(0.33, 0.4, 0.21)	9.8
R4: KRAS-mutant (%) Deviation	(86.03, 0.4, 0.21)	10.0
R5: gBRCA-mutant (%) Deviation	(0.03, 0.1, 0.06)	9.9

Example Calculations:

- \*\*Cell (R1, C1)\*\*: Source values from the three trials (after parsing): 0.2, 0.0, 0.1. Mean = (0.2 + 0.0 + 0.1) / 3 = 0.1. Range = max(0.2, 0.0, 0.1) - min(0.0) = 0.2 - 0.0 = 0.2. SD = sqrt( [(0.2-0.1)^2 + (0.0-0.1)^2 + (0.1-0.1)^2] / 2 ) = sqrt( (0.01 + 0.01 + 0.0) / 2 ) = sqrt(0.01) ≈ 0.1. Final: (0.1, 0.2, 0.1).

- \*\*Score for (R2, C2)\*\*: Source values (3 from Arm A): 0.1, 0.2, 0.1. Overall Mean =  $(0.1 + 0.2 + 0.1) / 3 = 0.1333$ . Overall SD =  $\sqrt{[(0.1-0.1333)^2 + (0.2-0.1333)^2 + (0.1-0.1333)^2] / 2} \approx \sqrt{0.0022 / 2} \approx 0.0577$ . Score =  $10.0 * (1 - 0.0577 / (|0.1333| + 10.0)) \approx 10.0 * (1 - 0.0577 / 10.1333) \approx 10.0 * (1 - 0.0057) \approx 9.9$  (using Formula B).

- \*\*Score for (R4, C2)\*\*: Source values (3 from Arm A): 86.1, 86.2, 85.8. Overall Mean =  $(86.1 + 86.2 + 85.8) / 3 \approx 86.0333$ . Overall SD  $\approx \sqrt{[(86.1-86.0333)^2 + (86.2-86.0333)^2 + (85.8-86.0333)^2] / 2} \approx \sqrt{0.0467 / 2} \approx 0.2082$ . Score =  $10.0 * (1 - 0.2082 / (86.0333 + 10.0)) \approx 10.0 * (1 - 0.2082 / 96.0333) \approx 10.0 * (1 - 0.0022) \approx 9.978$ , rounded to 9.8? Wait, no, code says 10.0, but let's check.

Wait, code has 10.0 for R4.

Recalc: SD 0.21, denom 86.03 +10=96.03, 0.21/96.03≈0.0022, 1-0.0022=0.9978, \*10=9.978, round to 10.0? But instructions round to one decimal, 9.978 to 10.0? Round(9.978,1)=10.0 yes, since 0.978>0.95? No, round to 1 decimal is look at second, 7>5, so 10.0.

No, 9.978 to one decimal is 10.0? 9.978, the first decimal is 9, second 7, third 8, round to one: look at second decimal 7>=5, so 9. +0.1 but 10.0.

Yes, 10.0.

But in code it's 10.0, yes.

The calculation is approximate.

Final: 10.0 (using Formula B).

### Meta-Verification Table 3: Cross-Verification Consistency of Median OS Difference

Row Name	C1: Arm A (Mean, Range, SD)	C2: Arm B (Mean, Range, SD)	C3: Arm C (Mean, Range, SD)	C4: Arm D (Mean, Range, SD)	C5: Arm E (Mean, Range, SD)	C6: Row Consistency Score
R1: Median OS Difference (months)	(0.2, 0.2, 0.1)	(-0.07, 0.1, 0.06)	(-0.03, 0.1, 0.06)	(0.0, 0.2, 0.1)		
	8.8					

#### Example Calculations:

- \*\*Cell (R1, C1)\*\*: Source values from the three trials (after parsing): 0.3, 0.1, 0.2. Mean =  $(0.3 + 0.1 + 0.2) / 3 = 0.2$ . Range = 0.3 - 0.1 = 0.2. SD =  $\sqrt{[(0.3-0.2)^2 + (0.1-0.2)^2 + (0.2-0.2)^2] / 2} = \sqrt{(0.01 + 0.01 + 0) / 2} = \sqrt{0.01} = 0.1$ . Final: (0.2, 0.2, 0.1).

- \*\*Cell (R1, C5)\*\*: Source values from the three trials (after parsing): 0.1, -0.1, 0.0. Mean =  $(0.1 - 0.1 + 0.0) / 3 = 0.0$ . Range =  $0.1 - (-0.1) = 0.2$ . SD =  $\sqrt{[(0.1-0.0)^2 + (-0.1-0.0)^2 + (0.0-0.0)^2] / 2} = \sqrt{(0.01 + 0.01 + 0) / 2} = \sqrt{0.01} = 0.1$ . Final: (0.0, 0.2, 0.1).

- \*\*Score for (R1, C6)\*\*: Source values (all 15 from 5 arms x 3 trials): 0.3,0.1,0.2, 0.0,-0.1,-0.1, -0.1,0.0,0.0, 0.0,0.1,-0.1, 0.1,-0.1,0.0. Overall Mean =  $\text{sum} / 15 \approx 0.0$ . Overall SD  $\approx 0.1205$  (calculated as sample SD). Score =  $10.0 * (1 - 0.1205 / (|0.0| + 1.0)) = 10.0 * (1 - 0.1205 / 1.0) \approx 10.0 * 0.8795 \approx 8.8$  (using Formula A).

### Meta-Verification Table 4: Cross-Verification Consistency of Median PFS Difference

Row Name	C1: Arm A (Mean, Range, SD)	C2: Arm B (Mean, Range, SD)	C3: Arm C (Mean, Range, SD)	C4: Arm D (Mean, Range, SD)	C5: Arm E (Mean, Range, SD)	C6: Row Consistency Score
R1: Median PFS Difference (months)	(0.03, 0.1, 0.06)	(0.07, 0.1, 0.06)	(0.0, 0.0, 0.0)	(-0.03, 0.1, 0.06)	(0.1, 0.2, 0.1)	9.3

#### Example Calculations:

- \*\*Cell (R1, C2)\*\*: Source values from the three trials (after parsing): 0.0, 0.1, 0.1. Mean =  $(0.0 + 0.1 + 0.1) / 3 \approx 0.0667$ . Range =  $0.1 - 0.0 = 0.1$ . SD =  $\sqrt{[(0.0-0.0667)^2 + (0.1-0.0667)^2 + (0.1-0.0667)^2] / 2} \approx \sqrt{0.0044 / 2} \approx 0.0577$ . Rounded: (0.07, 0.1, 0.06).

- \*\*Cell (R1, C5)\*\*: Source values from the three trials (after parsing): 0.1, 0.2, 0.0. Mean =  $(0.1 + 0.2 + 0.0) / 3 \approx 0.1$ . Range =  $0.2 - 0.0 = 0.2$ . SD =  $\sqrt{[(0.1-0.1)^2 + (0.2-0.1)^2 + (0.0-0.1)^2] / 2} = \sqrt{(0 + 0.01 + 0.01) / 2} = \sqrt{0.01} = 0.1$ . Final: (0.1, 0.2, 0.1).

- \*\*Score for (R1, C6)\*\*: Source values (all 15): 0.1,0.0,0.0, 0.0,0.1,0.1, 0.0,0.0,0.0, 0.0,0.0,-0.1, 0.1,0.2,0.0. Overall Mean  $\approx 0.0267$ . Overall SD  $\approx 0.076$ . Score =  $10.0 * (1 - 0.076 / (|0.0267| + 1.0)) \approx 10.0 * (1 - 0.076 / 1.0267) \approx 10.0 * (1 - 0.074) \approx 9.3$  (using Formula A).

### Meta-Verification Table 5: Cross-Verification Consistency of 12-Month OS Rate Difference

Row Name	C1: Arm A (Mean, Range, SD)	C2: Arm B (Mean, Range, SD)	C3: Arm C (Mean, Range, SD)	C4: Arm D (Mean, Range, SD)	C5: Arm E (Mean, Range, SD)	C6: Row Consistency Score
R1: 12-Month OS Rate Difference (%)	(0.73, 0.7, 0.38)	(-0.47, 0.7, 0.38)	(-0.67, 1.1, 0.57)	(-0.07, 0.5, 0.29)	(0.07, 0.6, 0.32)	9.4

#### Example Calculations:

- \*\*Cell (R1, C1)\*\*: Source values: 0.3, 0.9, 1.0. Mean =  $(0.3 + 0.9 + 1.0) / 3 \approx 0.7333$ . Range =  $1.0 - 0.3 = 0.7$ . SD =  $\sqrt{[(0.3-0.7333)^2 + (0.9-0.7333)^2 + (1.0-0.7333)^2] / 2} \approx \sqrt{0.2933 / 2} \approx 0.3828$ . Rounded: (0.73, 0.7, 0.38).

- \*\*Cell (R1, C3)\*\*: Source values: -0.5, -1.3, -0.2. Mean =  $(-0.5 -1.3 -0.2) / 3 \approx -0.6667$ . Range =  $-0.2 - (-1.3) = 1.1$ . SD =  $\sqrt{[(-0.5+0.6667)^2 + (-1.3+0.6667)^2 + (-0.2+0.6667)^2] / 2} \approx \sqrt{0.6533 / 2} \approx 0.5715$ . Rounded: (-0.67, 1.1, 0.57).

- \*\*Score for (R1, C6)\*\*: Source values (all 15): 0.3,0.9,1.0, -0.3,-0.9,-0.2, -0.5,-1.3,-0.2, -0.4,0.1,0.1, 0.2,-0.3,0.3. Overall Mean  $\approx -0.08$ . Overall SD  $\approx 0.611$ . Score =  $10.0 * (1 - 0.611 / (0.08 + 10.0)) \approx 10.0 * (1 - 0.611 / 10.08) \approx 10.0 * (1 - 0.0606) \approx 9.4$  (using Formula B).

### Meta-Verification Table 6: Cross-Verification Consistency of ≥G3 AE Rate Difference

Row Name	C1: Arm A (Mean, Range, SD)	C2: Arm B (Mean, Range, SD)	C3: Arm C (Mean, Range, SD)	C4: Arm D (Mean, Range, SD)	C5: Arm E (Mean, Range, SD)	C6: Row Consistency Score
R1: ≥G3 AE Rate Difference (%)	(0.03, 0.3, 0.15)	(-0.6, 0.5, 0.26)	(0.17, 1.3, 0.75)	(0.23, 1.2, 0.64)	(-0.03, 0.4, 0.21)	9.5

#### Example Calculations:

- \*\*Cell (R1, C2)\*\*: Source values: -0.3, -0.7, -0.8. Mean =  $(-0.3 -0.7 -0.8) / 3 = -1.8 / 3 = -0.6$ . Range =  $-0.3 - (-0.8) = 0.5$ . SD =  $\sqrt{[(-0.3+0.6)^2 + (-0.7+0.6)^2 + (-0.8+0.6)^2] / 2} = \sqrt{(0.09 + 0.01 + 0.04) / 2} = \sqrt{0.14 / 2} \approx 0.2646$ . Rounded: (-0.6, 0.5, 0.26).

- \*\*Cell (R1, C4)\*\*: Source values: 0.5, 0.7, -0.5. Mean =  $(0.5 + 0.7 - 0.5) / 3 \approx 0.2333$ . Range =  $0.7 - (-0.5) = 1.2$ . SD =  $\sqrt{[(0.5-0.2333)^2 + (0.7-0.2333)^2 + (-0.5-0.2333)^2] / 2} \approx \sqrt{0.82 / 2} \approx 0.6403$ . Rounded: (0.23, 1.2, 0.64).

- \*\*Score for (R1, C6)\*\*: Source values (all 15): 0.2,-0.1,0.0, -0.3,-0.7,-0.8, 0.6,0.6,-0.7, 0.5,0.7,-0.5, 0.2,-0.1,-0.2. Overall Mean  $\approx -0.04$ . Overall SD  $\approx 0.546$ . Score =  $10.0 * (1 - 0.546 / (0.04 + 10.0)) \approx 10.0 * (1 - 0.546 / 10.04) \approx 10.0 * (1 - 0.0544) \approx 9.5$  (using Formula B).

**Research Summary Generation 50: 221 Words**

Planning table comparisons

- The task involves creating six new comparison tables from data across three trials.
- Source tables include Overall Cohort Distribution, Baseline Characteristics, and others like Median OS and PFS.

- For each meta-table, compute Mean, Range, and SD for numerical values, rounding to two decimals.
- Deviations are absolute differences, always positive, such as 0.1% for Stage IV.
- Instructions say to use Formula B for all rows, even if Mean Age is in years, not percentages.

#### Organizing data for Meta-Tables

- Meta-Table 1 shows Patient Count Discrepancy for Arms A-E, all zeros across trials.
- Meta-Table 2 covers Baseline deviations for Arm A, including Mean Age and KRAS, with large KRAS deviations like 86.1.
- For Meta-Table 2, rows like Mean Age and KRAS need stats computed, with KRAS showing large values.
- Meta-Table 3 includes Median OS differences, such as Arm A with values 0.3, 0.1, 0.2.
- Meta-Table 4 covers Median PFS differences, with values like Arm A [0.1, 0.0, 0.0] and Arm E [0.1, 0.2, 0.0].

#### Preparing for calculations

- Meta-Table 5 includes 12-Month OS Rate differences, such as Arm A [0.3, 0.9, 1.0].

#### Code Execution

- Let's compute stats using code, as there are many calculations to handle.
- Results are in, now let's build the six tables in markdown format.