**DOCUMENT NUMBER:** COMM-QA-076

**DOCUMENT TITLE:**
Corrective and Preventive Actions

**DOCUMENT NOTES:**

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<td><strong>Revision:</strong> 05</td>
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<td><strong>Vault:</strong> COMM-QA-rel</td>
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<td><strong>Status:</strong> Release</td>
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<td><strong>Release Date:</strong> 30 Oct 2020</td>
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<td><strong>Effective Date:</strong> 30 Oct 2020</td>
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<td><strong>Expiration Date:</strong></td>
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**Control Information**

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<th>Author: BS76</th>
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<tr>
<td>Owner: RB232</td>
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<tr>
<td><strong>Previous Number:</strong> COMM-QA-076 Rev 04</td>
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<td><strong>Change Number:</strong> COMM-CCR-132</td>
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COMM-QA-076
CORRECTIVE AND PREVENTIVE ACTIONS

1 PURPOSE
1.1 The purpose of this procedure is to provide system instructions and to assign responsibilities for the identification, assignment, implementation, verification and closure of a Corrective and Preventive Action (CAPA).

2 INTRODUCTION
2.1 This Standard Operating Procedure (SOP) describes the process to be followed for the CAPA process.

2.2 A CAPA process is necessary to mitigate system nonconformities and performance problems with respect to many areas, including but not limited to quality systems, manufacturing, customer complaints, or discrepancies cited during internal and external audits performed at the facility or its associated programs.

3 SCOPE AND RESPONSIBILITIES
3.1 Trained personnel are responsible for completing COMM-QA-076 FRM1 CAPA Report and modifying step routes as needed to ensure the applicable Supervisor/Manager, Subject Matter Expert (SMEs), Medical/Program Director, and approving physician are included.

3.2 The Medical/Program Director and the Quality Systems Unit (QSU) evaluates and approves or rejects all CAPAs via electronic signature.

3.3 Operations/Manufacturing responsibilities include:

- Reviewing/approving planned CAPA and recommending changes, as necessary
- Reporting new risks, which may result from a suggested CAPA
- Completing assigned CAPA tasks and reporting the status/completion of CAPA
- Reviewing and recommending changes on the overall CAPA based on review of effectiveness checks
- Participating in determination if any external reporting is required to outside vendors/sponsors of events that may impact products related to their organization

3.4 Quality Systems Unit responsibilities include:

- Tracking open CAPA
- Coordinating with Subject Matter Experts (SME) to review and recommend changes on CAPA, as applicable
- Reviewing, approving, and recommending changes on the overall CAPA based on review of effectiveness checks
- Ensuring implementation of CAPA recommendations
• Determining if any external reporting is required to outside vendors/sponsors of events that may impact products related to their organization
• Reviewing and approving all CAPAs for completeness and appropriate level of detail, including evaluation of risk to affected systems
• Monitoring the CAPA system to facilitate effective management of CAPA and Effectiveness Checks
• Providing status updates to applicable Supervisor/Managers and Medical/Program Directors

3.5 Medical Director (MD) responsibilities include:

• Reporting new risks that can adversely affect a patient’s health or medical outcome as the result of a CAPA
• Reviewing/approving CAPA and recommending changes as necessary
• Completing assigned CAPA tasks and reporting the status/completion of assigned CAPA
• Reviewing and recommending changes on the overall CAPA based on review of effectiveness checks

4 DEFINITIONS/ACRONYMS

4.1 CAPA: Corrective and Preventive Action

4.2 CAPA Report: Form used to document the findings of an initiated CAPA event in the MasterControl system.

4.3 Corrective Action (CA): Action taken to eliminate the cause of a detected event or deviation. Corrective action is taken to prevent the recurrence of a problem. Please note that any action taken to address the cause of a problem is part of a CAPA (ex. additional training or changes to procedures, processes or systems).

4.4 DCO: Document Control Operations.

4.5 Effectiveness Check: Method or data used to determine effectiveness of a CAPA.

4.6 External Reporting: The dissemination of information to an outside party as required by any applicable regulation, standard, contract or quality agreement. This could include reporting to FDA, an external sponsor, or another entity.

4.7 Final Quality Approval: The point in the review process after which an event/CAPA report is considered to be complete/final and in a form that may be disseminated to an outside party as a complete/final document.

4.8 MasterControl: An electronic 21 CFR compliant electronic data management system.

4.9 MD: Medical Director

4.10 OOS: Out of Specification

4.11 Preventive Action (PA): An activity or step implemented to prevent the initial occurrence of a problem, based on an understanding of the product or process. Please note that any action taken to prevent initial occurrence of a problem is part of a CAPA (ex. additional training or changes to procedures, processes or systems).
4.12 **QSU**: Quality Systems Unit.

4.13 **Root Cause**: An identified reason for the presence of a defect, problem, deviation, or nonconformity, the most basic reason which, if eliminated, would prevent recurrence. The root cause can also be defined as the source or origin of an event.

4.14 **SME**: Subject Matter Expert

4.15 **SOP**: Standard Operating Procedure

5 **MATERIALS**

5.1 Supporting reports/documents; e.g., product recall notification, email correspondences.

6 **EQUIPMENT**

6.1 Computer access to MasterControl.

7 **SAFETY**

7.1 N/A

8 **PROCEDURE**

8.1 When an issue requiring a corrective or preventive action is identified, or otherwise deemed warranted by management, trained personnel will open a CAPA Report in MasterControl. In addition to risk driven CAPA initiation, a CAPA may be triggered from other quality systems, including, but not limited to, in response to internal/external audit findings, management review, COMM-QA-080 *Quality Risk Management* risk assessments, and/or identified trends.

8.1.1 All changes or actions taken to address/eliminate root cause of a detected deviation/event should be tracked as a Corrective Action (CA) on COMM-QA-076 *FRMI CAPA Report*. Examples would include changes to standard operating procedures (SOPs), processes, or systems; equipment installation and/or repairs; and formal training and/or re-training.

8.1.2 Additionally, changes/actions taken to address/reduce risk, an anticipated failure, or cause of a potential deviation should be tracked as a Preventive Action (PA) on COMM-QA-076 *FRMI CAPA Report*. Examples would include changes to SOPs, processes, or other systems to help prevent occurrence of an issue.

8.1.3 If the change/action occurred during the course of the deviation investigation and the actions are completed before closure of the associated COMM-QA-042 *FRM4 Deviation and Investigation Report*, any actions that fulfill the requirements stated within this SOP should still be captured on COMM-QA-076 *FRMI CAPA Report*.

8.1.4 As defined in COMM-QA-077 *Risk Assessment Procedure*, CAPAs may be required as an outcome of the associated risk assessments/score. All risk assessments associated with event investigations should be expanded to include potential, related outcomes that could occur in the
future despite not having occurred in this specific event so that any potential preventive actions can be evaluated and captured. To help accomplish this, a systemic view should be taken when looking at the event/issue to help determine if any changes can be made to facilitate reduced risk of a similar event occurring in the future. If a preventive action (PA) is warranted, after completing this expanded assessment of alternative outcomes, it should be tracked as a CAPA on COMM-QA-076 FRMI CAPA Report.

8.2 Timeline for CAPA Initiation

8.2.1 A CAPA should be initiated prior to closure of the associated event (deviation/investigation, adverse event, complaint, OOS, etc.), risk assessment, audit finding, or related document. The CAPA will be documented using the CAPA Report (COMM-QA-076 FRMI). As a best practice, the CAPA Report should undergo pre-approval routing (first routing) in parallel with or around the same time as an associated event.

8.2.2 All proposed effectiveness checks for verification of CAPA as well as projected completion dates and responsible parties should be outlined in the applicable section of the CAPA report prior to initial QA and Medical Director approval for implementation. Timelines for effectiveness checks may be determined on a case-by-case basis and represent an adequate period of time sufficient to accurately gauge effectiveness. The rationale for the duration of an effectiveness check should be stated in the CAPA report.

8.3 Completing MasterControl CAPA Report

8.3.1 Refer to Appendix A for detailed instructions on completing the sections of the CAPA Report.

8.3.2 If the initiator of a CAPA is not the Supervisor/Manager, modify step routes, as applicable, to include the Supervisor/Manager for review and approval.

8.3.3 Verify that the appropriate SMEs, Medical/Program Director and/or physician, as applicable, is selected for review and approval routes and modify step routes as necessary.

8.4 Review Process

8.4.1 Each CAPA routes through the MasterControl system twice:

8.4.1.1 First Routing: Pre-approval of CAPA(s), Proposed Effectiveness Check(s) and Pre-CAPA Risk Assessment Summary.

8.4.1.2 Second Routing: Final approval of CAPA Outcome, Outcome of the Effectiveness Check(s), and the Effectiveness Check Risk Assessment Evaluation.

8.4.1.3 If anticipated timelines for the CAPA and/or the effectiveness checks are not met during second routing, an
explanation is detailed in the applicable section of the CAPA Report.

8.4.2 Upon second routing of the CAPA, for approval of the CAPA Outcome and Outcome of the Effectiveness Check, when applicable, (as detailed in Appendix A) initiators must complete an Effectiveness Check Risk Assessment Evaluation in which initiators will reassess if the risk was reduced as a result of the implemented CAPA(s).

8.4.2.1 During this review, when applicable, initiators will address a review of any applicable risk assessments completed per COMM-QA-080 Quality Risk Management, to ensure consideration of how the CAPA impacts already established risks, and to ensure this is factored into the determination of the effectiveness of this change and its associated risk score.

8.4.2.2 If this evaluation determines that the associated risk was not sufficiently reduced to an acceptable level, or, if the associated Effectiveness Checks cannot demonstrate that the associated CAPA is effective, in consultation with QSU, additional CAPA(s) may be necessary. Additionally, initiators should evaluate within this CAPA, if the identified root cause of the associated event was well defined/established and/or if the CAPA did not address the root cause sufficiently.

8.4.3 QSU completes a detailed assessment on all submitted CAPAs for completeness, suitable level of detail, and appropriate resolution of the original issue, when applicable.

8.4.4 QSU assesses step routing for completeness and accuracy and modifies steps as necessary to ensure thorough review.

8.4.5 CAPA Report evaluation and approval routes include: Supervisor/Manager, Operations Review, designated trained physicians, Medical/Program Director, and QSU Director, as applicable.

8.4.5.1 Reviewers may reject any route step during the evaluation and approval process to ensure consistent and accurate documentation.

8.4.6 Open CAPA Reports are monitored and discussed by QSU in a periodic event meetings. CAPA progress will be actively monitored by the QSU in a variety of mechanisms, which may include but are not limited to monthly event management tracking meetings and regular reports that are sent to applicable Department Managers, Quality Director and Medical Director(s), as applicable. These meetings and reports will highlight key statistics such as initiation date and projected completion date.
8.5 Maintenance of Records

8.5.1 CAPA Reports and associated forms are maintained in MasterControl and are accessible for printing and review. Reports may be generated by DCO (Document Control Operations) or QSU upon request.

8.5.2 All records are maintained according to the associated Program’s procedure(s) for Records Management or Records Retention.

9 RELATED DOCUMENTS/FORMS

9.1 CCBB-QA-017 Complaint Management
9.2 COMM-QA-042 Deviations and Investigations
9.3 COMM-QA-042 FRM4 Deviation and Investigation Report
9.4 COMM-QA-076 FRM1 CAPA Report
9.5 COMM-QA-077 Risk Assessment Procedure
9.6 COMM-QA-080 Quality Risk Management
9.7 COMM-PAS-006 Product Complaint Management
9.8 STCL-QA-007 Non-Conforming Products — Receipt, Processing, Distribution, and Disposition

10 REFERENCES

10.1 21 CFR 211.22(a) – Responsibilities of a Quality Control Unit
10.2 21 CFR 211.100 – Written Procedures; Deviations
10.3 21 CFR 1271 – Human Cells, Tissues, and Cellular and Tissue-Based Products
10.4 FACT-JACIE International Standards for Cellular Therapy; Current Edition
10.5 FACT Common Standards for Cellular Therapies; Current Edition
10.6 NetCord-FACT International Standards for Cord Blood Collection, Banking, and Release for Administration; Current Edition
## 11 REVISION HISTORY

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<th>Revision No.</th>
<th>Author</th>
<th>Description of Change(s)</th>
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| 05           | B. Shen | - Update to align with form changes, including new formatting/tabs, new CCR field, pre-CAPA risk assessment summary, and adding post-CAPA implementation risk assessment.  
- Clarify timing for population/completion, within the routing structure, for these additional form changes.  
- Clarify requirements and scenarios that necessitate a CAPA.  
- Define that actions taken to address/eliminate root cause of a detected deviation or actions taken to address/eliminate cause of a potential deviation will be tracked as a CAPA, including those completed during the related investigation.  
- Add information on expanded risk assessment may lead to CAPA and how CAPAs should be documented to align with COMM-QA-077 and COMM-QA-080.  
- Update Appendix to align with new form and structure as well as enhance for clarity and to provide better detail for users. |
Appendix A

Instructions for completing **COMM-QA-076 FRM1 CAPA Report**

- Complete the CAPA Report, filling in all required information.
- Record N/A in any field that does not apply.
- Note: The CAPA routes twice. Initially for pre-approval of CAPA(s) and Proposed Effectiveness Check(s) (first routing) and a second time for the Outcome of the CAPA and Effectiveness Check(s) (second routing).

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<tr>
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<th>Instructions</th>
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<tbody>
<tr>
<td>CAPA Report Number</td>
<td>CAPA Report number is auto-populated by Master Control.</td>
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<tr>
<td>CAPA Report Initiated By</td>
<td>This field is auto-populated by MasterControl to indicate which user initiated the CAPA Report.</td>
</tr>
<tr>
<td>Date Initiated</td>
<td>This field is auto-populated by MasterControl to indicate what date the CAPA Report was initiated.</td>
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**Tab 1: CAPA Summary Tab**

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<tr>
<th>Program</th>
<th>Select applicable program for which the CAPA pertains.</th>
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<tbody>
<tr>
<td>Event Report(s) associated with this CAPA</td>
<td>Enter the report number(s) that resulted in this CAPA report (ex. Deviation/Investigation, Risk Assessment Report, AE, Complaint).</td>
</tr>
<tr>
<td>Issue Statement</td>
<td>Summarize the issue <strong>and</strong> root cause of the issue being addressed by this CAPA. Please remember that this CAPA may be routing months after the original event. <strong>Note: Although the entire event does not need to be summarized again, please provide enough details that anyone could generally understand the situation.</strong></td>
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</table>

**CAPA and EC – 1, 2, 3 Tab**

| Corrective Actions (Pre-Approval Routing/First Routing) | For **pre-approval (First Routing)** of the CAPA report:  
If the CAPA is corrective, list all Corrective Actions (measures to correct the cause of the issue and prevent recurrence). Select appropriate toggle to indicate if action is corrective.  
• Add projected completion date  
• Add initials of responsible person  
**Note: As a best practice, the CAPA Report should undergo pre-approval routing in parallel with or around the same time as the associated event.** |
|--------------------------------------------------------|------------------------------------------------------------------------------|
| Preventive Actions (Pre-Approval Routing/First Routing) | For **pre-approval (First Routing)** of the CAPA report:  
If the CAPA is preventive, list all Preventive Actions (action to eliminate the cause of a potential issue). Select appropriate toggle to indicate if action is preventive.  
• Add projected completion date  
• Add initials of responsible person  
**Note: As a best practice, the CAPA Report should undergo pre-approval routing in parallel with or around the same time as the associated event.** |
| Change Control Request(s) associated with this CAPA (Second Routing) | Include any change control request number(s) that were associated with changes from this CAPA report.  
**Note: May be populated if known at time of pre-approval/first routing but required to be populated at time of second routing.** |
<p>| CAPA Outcome (Final/Second Routing) | For <strong>final approval (Second Routing)</strong> of the CAPA report: |</p>
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<th>Section</th>
<th>Instructions</th>
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| After completion of the CAPA and effectiveness checks, describe the outcome of the CAPA(s). For example, what was implemented and when was the associated document or process implemented?  
- Add date completed (in associated Corrective and Preventive Actions Box) and describe outcome of Corrective or Preventive Action(s). Date should match any documented dates described in text and/or attachments; If not, explain in text.  
- If projected Corrective or Preventive Action(s) date is not met, please explain why completion was delayed and evaluate if there is any impact due to the delay. |
| Proposed Effectiveness Checks (Pre-Approval/First Routing) | For pre-approval (First Routing) of the CAPA report:  
To be populated during first routing with proposed Corrective or Preventive Action(s). List all Proposed Effectiveness Checks (measures to verify effectiveness of CAPA).  
- Add projected completion date  
- Add initials of responsible person  
- Each CAPA should have an appropriate Effectiveness Check.  
- The rationale for the duration of an effectiveness check should be stated. |
| Effectiveness Check Outcome (Final/Second Routing) | For final approval (Second Routing) of the CAPA report:  
When the CAPA routes for the final (second) time, describe the effectiveness check outcome in the associated box. For example, what occurred during the effectiveness check and did it indicate the CAPA was effective? If not, describe and/or formulate additional CAPA and/or effectiveness checks for existing CAPA. A new CAPA will likely be needed if effectiveness was not demonstrated.  
If there were any changes made from the original proposal, please explain those and detail why the effectiveness check is still adequate and appropriate for the CAPA.  
- Add date completed (in associated Effectiveness Checks Box)  
- If projected EC date is not met, please explain why completion was delayed and evaluate if there is any impact due to the delay.  

Note: The effectiveness check(s) should demonstrate full resolution of the problem with no repeat occurrences of the same type of incident. If this cannot be demonstrated, then a new CAPA may be needed. |
| Risk Assessment Tab | |
| Pre-CAPA Risk Assessment Summary (First Routing) | For CAPAs generated as a result of an event (deviation/investigation, complaint, etc.) or where a risk assessment was completed per scoring in COMM-QA-077 Risk Assessment Procedure, populate details of the original Risk Assessment associated with this CAPA.  
- Include the scores associated with each risk assessment parameter and the corresponding combined risk assessment score. |
| Effectiveness Check Risk Assessment Evaluation (Second Routing) | When the CAPA routes for the final (second) time, use this section to document a reevaluation of the original Risk Assessment associated with this CAPA.  
Summarize the overall risk assessment outcome after implementation of associated CAPA(s).  
- Include a reassessment of each risk assessment parameter and associated score |
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<tr>
<td></td>
<td>* Clearly address if risk was reduced after implementation of CAPAs and if effectiveness and acceptable level of risk demonstrated.</td>
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**External Reporting / Attachments Tab**

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<td>External Reporting</td>
<td>Use this section to document the determination of any need for regulatory or other external reporting to vendors/sponsors, per applicable quality agreements. If notification is required in advance of closing the CAPA, documentation, such as email, FAX etc. should be attached to the document in the Attachments section. This section to be populated by author/initiator if known at time of report and/or QSU at time of review.</td>
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<td>Attachments</td>
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**Appendix Tab**

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<td>Appendix from COMM-QA-076</td>
<td>The Appendix from <em>COMM-QA-076 Corrective and Preventive Actions</em> is attached for easy reference.</td>
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### Signature Manifest

**Document Number**: COMM-QA-076  
**Title**: Corrective and Preventive Actions  
**Effective Date**: 30 Oct 2020

All dates and times are in Eastern Time.

#### COMM-QA-076 Corrective and Preventive Actions

#### Author

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<td>26 Oct 2020, 09:43:04 AM</td>
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#### Medical Director

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