

ZZedc Study Coordinator Guide

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Daily Operations Manual for Clinical Research Teams

Document Information

- **Version:** 1.0.0
 - **Date:** December 2025
 - **Audience:** Study Coordinators, Research Assistants, Site Staff, Data Entry Personnel
 - **Prerequisites:** Basic computer skills, familiarity with clinical research concepts
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1. Getting Started

1.1 Logging In

1. Open your web browser (Chrome, Firefox, or Edge recommended)
2. Navigate to the ZZedc URL provided by your administrator
3. Enter your username and password
4. Click “Sign In”

First-time login: You will be prompted to change your temporary password. Choose a strong password with at least 8 characters including uppercase, lowercase, numbers, and special characters.

1.2 Understanding the Interface

After logging in, you will see the main navigation bar with these sections:

Tab	Purpose
Home	Dashboard with study overview and quick actions
EDC	Electronic Data Capture - enter and edit subject data
Reports	Generate enrollment, quality, and statistical reports
Data Explorer	Browse and search collected data
Export	Download data in various formats
Admin	User management and system settings (if authorized)

1.3 Understanding Your Role

ZZedc uses role-based access control. Your role determines what actions you can perform:

Role	Can Do	Cannot Do
Data Entry Coordinator	Enter data, view own entries Enter/edit data, run reports, export	Edit others' data, export, admin Manage users, system settings
Data Manager	All coordinator tasks, resolve queries, manage data	System administration
Monitor	View data, run reports, raise queries	Enter or edit data
PI (Principal Investigator)	Full data access, approve changes	System administration
Admin	Full system access	N/A

1.4 Navigating Between Sites (Multi-Site Studies)

If your study involves multiple sites:

1. Look for the “Site” dropdown in the top navigation bar
2. Select your site to filter data and forms
3. Your site assignment determines which subjects you can view and edit

2. Daily Operations

2.1 Data Entry Workflow

Step 1: Select or Enroll a Subject To enroll a new subject:

1. Navigate to **EDC > Enroll Subject**
2. Enter the Subject ID (follow your study's ID format)
3. Complete required enrollment fields:
 - Site (auto-filled if single-site user)
 - Enrollment date
 - Demographics as required
4. Click **Enroll Subject**
5. The system will confirm enrollment and display the subject's schedule

To select an existing subject:

1. Navigate to **EDC > Subject List**

2. Use the search box to find your subject by ID or name
3. Click on the subject row to open their record

Step 2: Select the Visit and Form

1. From the subject view, you will see the visit schedule
2. Click on the appropriate visit (e.g., “Screening”, “Week 4”, “Final”)
3. Select the form to complete (e.g., “Vital Signs”, “Lab Results”)
4. Forms with complete data show a green checkmark
5. Forms with missing data show a yellow warning
6. Forms with queries show a red exclamation mark

Step 3: Enter Data

1. Fill in each field according to the source document
2. Required fields are marked with a red asterisk (*)
3. Validation errors appear immediately below the field in red
4. Use the **Tab** key to move between fields
5. Date fields: Click the calendar icon or type in YYYY-MM-DD format
6. Dropdown fields: Start typing to filter options

Validation Messages:

Color	Meaning	Action Required
Red	Value out of range or invalid	Correct the value
Yellow	Value unusual but allowed	Verify against source, can proceed
Green	Value accepted	No action needed

Step 4: Save and Verify

1. Click **Save** to store the entered data
2. Review the confirmation message
3. Check that all required fields are complete
4. The form status will update (Complete/Incomplete/Has Queries)

Auto-save: ZZedc automatically saves your work every 60 seconds. However, always click Save before leaving a form.

2.2 Editing Existing Data

Minor Corrections (No Approval Required) For data entry corrections within 24 hours of initial entry:

1. Navigate to the form with the error
2. Click the field to edit
3. Make the correction
4. Enter a reason in the “Reason for Change” popup
5. Click **Save**

The original value and your correction are both recorded in the audit trail.

Data Corrections (May Require Approval) For changes after 24 hours or to verified data:

1. Navigate to the form
2. Click **Request Correction** (or the pencil icon)

3. Select the field(s) to correct
4. Enter the new value
5. Provide a detailed reason for the correction
6. Attach supporting documentation if available
7. Click **Submit for Review**

The Data Manager or PI will review and approve/reject the change.

2.3 Handling Missing Data

Expected Missing Data When data is intentionally not collected (e.g., visit not performed):

1. Leave the field blank
2. Select the appropriate “Not Done” reason:
 - Not applicable
 - Not done per protocol
 - Participant refused
 - Equipment failure
3. Document the reason in the comments field

Unexpected Missing Data When data should exist but is unavailable:

1. Leave the field blank temporarily
2. Open a query against yourself: “Source document pending”
3. Follow up to obtain the source document
4. Complete the data entry when available
5. Close the query with resolution notes

2.4 End-of-Day Checklist

Before logging out each day:

- Verify all data entered today is saved
 - Review any validation warnings and resolve if possible
 - Check your query inbox and respond to open queries
 - Ensure subject statuses are accurate
 - Log out of the system (click your name > Sign Out)
-

3. User and Role Administration

This section is for Coordinators, Data Managers, and Administrators

3.1 Adding New Users

1. Navigate to **Admin > User Management**
2. Click **Add New User**
3. Complete the required fields:

Field	Description	Example
Username	Login identifier (no spaces)	jsmith
Email	Contact email address	j.smith@example.org
Full Name	Display name	Jane Smith
Role	Access level	Coordinator
Site(s)	Assigned site(s)	Site 001
Status	Active or Inactive	Active

Field	Description	Example
-------	-------------	---------

4. Click **Create User**
5. The system generates a temporary password
6. Send credentials securely to the new user (not via unencrypted email)

3.2 Modifying User Accounts

To change a user's role or site assignment:

1. Navigate to **Admin > User Management**
2. Find the user in the list
3. Click **Edit** (pencil icon)
4. Modify the desired fields
5. Click **Save Changes**
6. The user will see updated permissions on their next login

To deactivate a user:

1. Navigate to **Admin > User Management**
2. Find the user in the list
3. Click **Deactivate** (or toggle Status to Inactive)
4. Confirm the action
5. The user can no longer log in but their audit history is preserved

3.3 Password Resets

User-initiated reset:

1. On the login page, click "Forgot Password"
2. Enter registered email address
3. Check email for reset link (valid for 1 hour)
4. Set new password

Administrator-initiated reset:

1. Navigate to **Admin > User Management**
2. Find the user
3. Click **Reset Password**
4. System generates a temporary password
5. Securely communicate the temporary password to the user

3.4 Role Permissions Reference

Permission	Data Entry	Coordinator	Data Manager	Monitor	PI	Admin
View own site data	Yes	Yes	Yes	Yes	Yes	Yes
View all sites data	No	No	Yes	Yes	Yes	Yes
Enter new data	Yes	Yes	Yes	No	Yes	Yes
Edit own entries	Yes	Yes	Yes	No	Yes	Yes
Edit others' entries	No	Yes	Yes	No	Yes	Yes
Resolve queries	No	Yes	Yes	No	Yes	Yes

Permission	Data Entry	Coordinator	Data Manager	Monitor	PI	Admin
Raise queries	No	Yes	Yes	Yes	Yes	Yes
Run reports	No	Yes	Yes	Yes	Yes	Yes
Export data	No	Yes	Yes	Yes	Yes	Yes
Manage users	No	No	No	No	No	Yes
System settings	No	No	No	No	No	Yes
Approve corrections	No	No	Yes	No	Yes	Yes
Lock/unlock visits	No	No	Yes	No	Yes	Yes

4. Form and Instrument Management

4.1 Understanding the Data Dictionary

The Data Dictionary defines all forms and fields in your study. Each field has:

- **Field Name:** Technical identifier (e.g., `sbp`)
- **Label:** Display text (e.g., “Systolic Blood Pressure”)
- **Type:** Data type (text, number, date, dropdown, etc.)
- **Validation:** Rules for acceptable values
- **Required:** Whether the field must be completed

4.2 Using the Instrument Library

ZZedc includes pre-built validated instruments:

1. Navigate to **Admin > Instruments**
2. Click **Import from Library**
3. Browse available instruments:
 - PHQ-9 (Depression)
 - GAD-7 (Anxiety)
 - SF-36 (Quality of Life)
 - PROMIS measures
 - And many more
4. Select the instrument to preview
5. Click **Import to Study**
6. Configure display options and visit assignment
7. Click **Activate**

4.3 Creating Custom Forms

Using Google Sheets (Recommended for Non-Technical Users)

1. Open the provided Google Sheets template
2. For each field, enter:
 - Field name (lowercase, no spaces, use underscores)
 - Label (human-readable)
 - Type (text, integer, decimal, date, dropdown, etc.)
 - Validation rule (see Section 7)
 - Options (for dropdowns, comma-separated)
 - Required (yes/no)
3. Save the Google Sheet

4. In ZZedc, navigate to **Admin > Forms > Import**
5. Select “Import from Google Sheets”
6. Enter the Sheet URL or ID
7. Click **Preview** to review
8. Click **Import** to create the form

Using the Form Builder

1. Navigate to **Admin > Forms > Create New**
2. Enter form name and description
3. Add fields by clicking **Add Field**
4. Configure each field:
 - Drag to reorder
 - Click gear icon for advanced settings
5. Set up branching logic if needed (see Section 4.4)
6. Click **Save Draft** to save work in progress
7. Click **Publish** when ready for use

4.4 Branching Logic

Branching logic shows or hides fields based on other responses.

Example: Show pregnancy-related questions only if sex is Female

If Field	Operator	Value	Then Show
sex	equals	Female	pregnant, lmp_date, gravida

To set up branching:

1. Open the form in edit mode
2. Click on the field that should be conditionally shown
3. Click **Add Condition**
4. Select the controlling field
5. Choose the operator (equals, not equals, greater than, etc.)
6. Enter the trigger value
7. Click **Save**

4.5 Visit Schedule Configuration

1. Navigate to **Admin > Visit Schedule**
2. Define each visit:

Visit	Name	Window (Days)	Target Day	Forms
V1	Screening	-7 to 0	-3	Demographics, Medical History, Screening
V2	Baseline	0 to 3	0	Vital Signs, Labs, Ran- domization
V3	Week 4	25 to 31	28	Vital Signs, Efficacy, AEs

Visit	Name	Window (Days)	Target Day	Forms
V4	Week 8	53 to 59	56	Vital Signs, Efficacy, AEs, Labs
VF	Final	81 to 87	84	All assessments, Study Completion

3. Assign forms to each visit
 4. Set visit window dates
 5. Click **Save Schedule**
-

5. Quality Control Procedures

5.1 Understanding the Query System

Queries are questions or issues raised about data that require clarification or correction. The query workflow ensures data accuracy and creates an audit trail.

Query States:

Status	Meaning	Action Required
Open	Query raised, awaiting response	Site must respond
Answered	Site has responded	Monitor/DM reviews
Closed	Issue resolved	None
Cancelled	Query withdrawn	None

5.2 Responding to Queries

1. Navigate to **Home > My Queries** (or click the query notification)
2. Review the query details:
 - Subject ID
 - Visit and Form
 - Field in question
 - Query text
 - Date raised
3. Investigate the source document
4. Enter your response:
 - If data is correct: Explain why (e.g., “Verified against source”)
 - If data needs correction: Make the correction and note it
5. Attach supporting documentation if needed
6. Click **Submit Response**

Query Response Best Practices:

- Be specific and reference source documents
- “Per source document dated 2025-01-15, value is correct”
- “Corrected per physician note, original entry was transcription error”
- Avoid vague responses like “fixed” or “ok”

5.3 Raising Queries (Monitors and Data Managers)

1. Navigate to the subject and form with the issue
2. Click on the field in question
3. Click **Raise Query** (flag icon)
4. Select query type:
 - Data Clarification
 - Missing Data
 - Protocol Deviation
 - Consistency Check
 - Source Document Request
5. Enter the query text (be specific)
6. Set priority (High, Medium, Low)
7. Click **Submit Query**

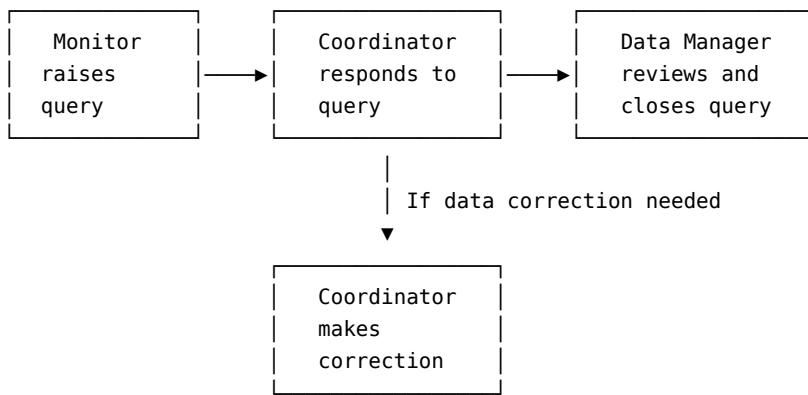
Example Query Texts:

- “Please verify: BP reading of 180/95 is higher than typical for this subject. Was this value confirmed on re-measurement?”
- “Missing laboratory results for Visit 3. Please provide or mark as Not Done with reason.”
- “Date inconsistency: Visit 3 date (2025-03-15) is before Visit 2 date (2025-03-20). Please clarify.”

5.4 Reviewing Data Quality Reports

1. Navigate to **Reports > Quality Reports**
2. Select report type:
 - **Missing Data Report**: Lists all incomplete required fields
 - **Query Status Report**: Summary of open/closed queries by site
 - **Validation Failures**: Fields that triggered validation warnings
 - **Data Entry Timeliness**: Time between visit and data entry
3. Set filters (site, date range, visit)
4. Click **Generate Report**
5. Review findings and take action

5.5 Query Resolution Workflow



5.6 Data Verification Checklist

Weekly review for each active subject:

- All scheduled visits have data entered
- No outstanding queries older than 7 days
- All required fields are complete

- No validation warnings unaddressed
 - Visit dates are within protocol windows
 - No duplicate data entries
 - Adverse events properly documented
-

6. Study Lifecycle Management

6.1 Study Setup Phase

Before First Subject

1. **Configure Study Settings**
 - Navigate to **Admin > Study Settings**
 - Enter study name, protocol number, sponsor
 - Set enrollment targets by site
 - Configure visit schedule
2. **Set Up Forms**
 - Import or create all required forms
 - Test each form with sample data
 - Verify validation rules work correctly
3. **Create User Accounts**
 - Add all site staff with appropriate roles
 - Provide training before access granted
 - Document training completion
4. **Test Data Entry**
 - Create test subjects (use IDs like TEST001)
 - Complete full data entry for all visits
 - Verify reports generate correctly
 - Delete test data before go-live

6.2 Active Enrollment Phase

Daily Tasks

Task	Frequency	Responsible
Enter new data	Daily	Data Entry / Coordinator
Respond to queries	Daily	Coordinator
Review dashboards	Daily	Data Manager
Backup verification	Daily	System Admin

Weekly Tasks

Task	Frequency	Responsible
Missing data review	Weekly	Coordinator
Query aging report	Weekly	Data Manager
Enrollment tracking	Weekly	PI / Coordinator
User access review	Weekly	Admin

Monthly Tasks

Task	Frequency	Responsible
Data quality metrics	Monthly	Data Manager
Site performance review	Monthly	Monitor
Protocol deviation log	Monthly	Coordinator
Audit log review	Monthly	Admin

6.3 Maintenance Phase (After Enrollment Complete)

1. Continue data collection for follow-up visits
2. Intensify query resolution to achieve database lock readiness
3. Begin data cleaning systematic review
4. Prepare for database lock

6.4 Study Closeout Phase

Pre-Lock Checklist Before requesting database lock:

- All subjects have completed final visits (or are documented as early terminations)
- All required forms are complete or documented as missing with reason
- Zero open queries (or documented exceptions approved by sponsor)
- All data corrections are complete
- All protocol deviations are documented
- Site PI has reviewed and signed off on site data
- Data Manager has completed final data review

Requesting Database Lock

1. Navigate to **Admin > Database Lock**
2. Run the **Lock Readiness Check**
3. Review any blocking issues
4. Resolve all blocking issues
5. Request lock approval from sponsor/DM
6. Once approved, execute lock
7. System prevents all further data changes

Post-Lock Activities

- Generate final data exports
- Archive audit trails
- Complete study-specific reports
- Maintain read-only access as required

6.5 Subject Status Management

Enrolling a Subject See Section 2.1

Withdrawing a Subject

1. Navigate to the subject record
2. Click **Change Status**
3. Select “Withdrawn”
4. Select withdrawal reason:
 - Participant request
 - Lost to follow-up
 - Adverse event

- Protocol violation
 - Other (specify)
5. Enter withdrawal date
 6. Complete any required early termination forms
 7. Click **Confirm Status Change**

Completing a Subject

1. Subject completes all protocol-required visits
 2. Complete the Study Completion form
 3. Change status to “Completed”
 4. Document completion date
 5. The subject is now closed to further data entry
-

7. Validation Rule Management

7.1 Introduction to Validation Rules

Validation rules ensure data quality by checking values as they are entered. ZZedc uses a plain English language for defining rules that non-programmers can create and maintain.

7.2 Using Google Sheets for Validation Rules

Your data dictionary Google Sheet includes a “Validation” column where you enter rules using simple English syntax.

Basic Rule Syntax

Rule Type	Syntax	Example
Range	between X and Y	between 18 and 100
Minimum	>= X or at least X	>= 0
Maximum	<= X or at most X	<= 300
Required	required	required
Pattern	matches PATTERN	matches #####-##-####
Options	in(opt1, opt2, ...)	in('Yes', 'No', 'Unknown')

Conditional Rules Show validation only under certain conditions:

```
if field == value then RULE endif
```

Examples:

```
# If female, pregnancy status is required
if sex == 'Female' then required endif

# If pregnant, gestational age must be provided
if pregnant == 'Yes' then between 0 and 42 endif

# Diastolic must be less than systolic
dbp < sbp
```

Cross-Field Validation Reference other fields in the same form:

```
# End date must be after start date  
end_date > start_date  
  
# Weight change should be within 10% of baseline  
weight within 10% of baseline_weight  
  
# Visit date within window of scheduled date  
visit_date within 7 days of scheduled_date
```

7.3 Common Validation Rule Examples

Demographics Form:

Field	Validation Rule
age	between 18 and 100
sex	in('Male', 'Female', 'Other')
race	in('White', 'Black', 'Asian', 'Other', 'Unknown')
dob	before today
phone	matches (###) ###-####

Vital Signs Form:

Field	Validation Rule
sbp	between 70 and 250
dbp	between 40 and 150
dbp_vs_sbp	dbp < sbp
heart_rate	between 40 and 200
temperature	between 95.0 and 105.0
weight_kg	between 30 and 300

Laboratory Form:

Field	Validation Rule
hemoglobin	between 5 and 20
wbc	between 1 and 50
platelets	between 50 and 1000
creatinine	between 0.1 and 15
alt	between 0 and 500

7.4 Importing Validation Rules

1. Complete your Google Sheet with validation rules
2. Navigate to **Admin > Validation Rules > Import**
3. Select your Google Sheet
4. Click **Preview** to review rules
5. Check for any syntax errors (shown in red)
6. Fix any errors in the Google Sheet
7. Click **Import**
8. Rules are now active for data entry

7.5 Rule Approval Workflow

Certain sensitive rules require PI approval before activation:

Rules requiring approval:

- Rules that reject previously valid data
- Rules with ranges outside standard clinical values
- Cross-form validation rules
- Rules marked as “hard stops” (block saving)

Approval process:

1. Submit rule for review
2. PI receives notification
3. PI reviews rule and supporting rationale
4. PI approves or requests modification
5. Upon approval, rule becomes active

7.6 Testing Validation Rules

Before deploying new rules to production:

1. Navigate to **Admin > Validation Rules > Test**
2. Select the rule to test
3. Enter sample values:
 - Valid values (should pass)
 - Invalid values (should fail)
 - Edge cases (boundary values)
4. Click **Run Test**
5. Verify expected behavior
6. Document test results

8. Common Tasks Quick Reference

8.1 Data Entry Quick Reference

Task	Navigation	Steps
Enroll new subject	EDC > Enroll	Enter ID, demographics, save
Enter form data	EDC > Subject > Visit > Form	Fill fields, save
Edit existing data	EDC > Subject > Visit > Form	Click field, edit, reason, save
Request correction	Form > Request Correction	Select field, new value, reason, submit

8.2 Query Management Quick Reference

Task	Navigation	Steps
View my queries	Home > My Queries	Review list, sort by priority
Respond to query	My Queries > Select query	Enter response, submit
Raise query	Form > Field > Flag icon	Select type, enter text, submit
Close query	Query > Review response	Verify, close

8.3 Reporting Quick Reference

Report	Navigation	Use Case
Enrollment	Reports > Basic > Enrollment	Track recruitment progress
Missing Data	Reports > Quality > Missing	Find incomplete forms
Query Status	Reports > Quality > Queries	Monitor query resolution
Data Export	Export > Select format	Get data for analysis

8.4 Administrative Quick Reference

Task	Navigation	Steps
Add user	Admin > Users > Add	Enter details, assign role
Reset password	Admin > Users > Select > Reset	Generate temp password
Import form	Admin > Forms > Import	Select source, preview, import
View audit log	Admin > Audit Trail	Set filters, search

8.5 Keyboard Shortcuts

Shortcut	Action
Tab	Move to next field
Shift+Tab	Move to previous field
Ctrl+S / Cmd+S	Save form
Ctrl+Enter	Submit and move to next form
Esc	Cancel current edit
/	Open search
?	Show help

Appendix A: Troubleshooting for Users

Cannot Log In

1. Verify username spelling (case-sensitive)
2. Check Caps Lock is off
3. Try “Forgot Password” to reset
4. Contact your administrator if locked out

Data Not Saving

1. Check for validation errors (red messages)
2. Verify required fields are complete
3. Check internet connection
4. Try refreshing the page (Ctrl+F5)
5. Contact support if issue persists

Form Not Displaying

1. Clear browser cache
2. Try a different browser
3. Check if form is assigned to current visit
4. Verify you have permission for this form

Report Taking Too Long

1. Narrow date range
 2. Filter by site or subject
 3. Try off-peak hours
 4. Contact support for large exports
-

Appendix B: Glossary

Term	Definition
AE	Adverse Event - any untoward medical occurrence
Audit Trail	Chronological record of all system activities
CRF	Case Report Form - data collection instrument
Data Dictionary	Specification of all fields and their attributes
EDC	Electronic Data Capture
Query	Request for clarification about entered data
SAE	Serious Adverse Event
Source Document	Original record where data was first recorded
Validation Rule	Automated check for data accuracy
Visit Window	Acceptable date range for a protocol visit

Appendix C: Support Contacts

Issue Type	Contact	Response Time
Password reset	Site administrator	Same day
Data entry questions	Study coordinator	Same day
System errors	IT support	4 hours
Protocol questions	Study PI	24 hours
Database issues	Data management center	24 hours

Document History

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1.0.0	December 2025	ZZedc Team	Initial release