

Curantis Solutions Hospice & Palliative

§170.315(b)(10) – Electronic Health Information (EHI) Export Testing Plan

Criterion: §170.315(b)(10) – *Electronic Health Information Export*

Objective

To validate that the Curantis Solutions EHR platform enables compliant, secure, and user-executable electronic health information (EHI) exports for both individual patients and patient populations in a computable format—without requiring ongoing developer assistance.

Test Scenarios & Methodology

1. Single Patient EHI Export

Test Objective	Method	Expected Result
Confirm that a permissioned user can initiate a single-patient EHI export at any time	Login as a user with export permission. From the Patient Listing Grid, click “Patient Export” for a selected patient	Export completes successfully and generates a computable file
Validate that export is only available to approved users	Attempt export with a user <i>without</i> export permission	Export option is hidden or disabled
Confirm no developer assistance is required	Perform export using UI only, with no backend access or scripts	Export proceeds without any developer input
Verify electronic and computable format	Open the exported file. Confirm JSON or FHIR-conformant format	File is well-formed JSON (FHIR v4.0.1)
Verify hyperlink to export format is included	Open the exported file and confirm presence of URL to format documentation	File includes a link to: https://hl7.org/fhir/R4/index.html

2. Patient Population EHI Export

Test Objective	Method	Expected Result
Confirm that a system administrator can request population-level export	Login as administrator. Request export via documented support channel	Curantis Support acknowledges and schedules export
Validate access control limitation to admin users	Attempt export as non-admin user	Access denied or functionality not visible
Verify export format and file structure	Upon receiving export, open and review contents	Files are JSON-formatted and FHIR-compliant
Validate hyperlink to format documentation is included	Open exported file(s)	Publicly accessible hyperlink is present (FHIR spec)

User Role Access Matrix

Role	Single Patient Export	Population Export
Administrator	✓ Enabled	✓ Enabled via Support
Clinician (with permission)	✓ Enabled	✗ Disabled
Standard User	✗ Disabled	✗ Disabled

Export Format

- **File Type:** JSON
- **Standard:** FHIR R4 (v4.0.1)
- **Link to Format:** Included in each export file

(e.g., "formatDocumentation": "https://hl7.org/fhir/R4/index.html")

- **Storage:** Files are available for user download immediately after export

Documentation Review

- Format documentation is reviewed quarterly to ensure continued alignment with ONC and FHIR specifications
- Hyperlinks are verified for accessibility
- Any changes to format or export structure trigger a release note and internal audit log

Frequency of Testing

- Single Patient Exports: Monthly real-world testing via automated QA

- Patient Population Exports: Quarterly validation by Support team
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Success Metrics

- $\geq 99\%$ success rate for authorized single-patient exports
- 100% role-based access control enforcement
- 100% of export files include valid format hyperlink
- Export file generation under 2 minutes (Single patient)