

ONC Electronic Health Information (EHI) Export Documentation

Last Updated: October 11, 2025

Version: 14.0

Product: Kipu EMR

The patient export feature supports both single patient and population level exports. Single patient exports can be generated directly within the application. You can access this export from the client's chart by selecting the Export to JSON button located in the top right corner of the chart. Population level exports require submitting a request to Kipu. All exported data is provided in JSON format.

Opening the Export File

1. Using a Text Editor:
 - Open with any text editor (Notepad, TextEdit, VS Code, etc.)
 - View the raw JSON data
2. Using a JSON Viewer:
 - Use online JSON viewers (jsonviewer.stack.hu, jsoneditoronline.org)
 - Use browser extensions for formatted viewing
 - Use desktop JSON viewer applications
3. Importing to Another System:
 - Provide the JSON file to your new healthcare provider
 - They can import using the schema documentation provided
 - Contact their IT department for import assistance

File Format Details

Format Specification

- **Format:** JSON (JavaScript Object Notation)
- **Character Encoding:** UTF-8
- **MIME Type:** application/json
- **File Extension:** .json
- **Specification:** RFC 8259 (JSON Data Interchange Format)
- **API Specification:** JSON:API (jsonapi.org/format)

Syntax Information

The export uses JSON syntax with the following characteristics:

- **Structure:** Hierarchical key-value pairs
- **Data Types:** Objects, Arrays, Strings, Numbers, Booleans, Null
- **Date/Time Format:** ISO 8601 (YYYY-MM-DDTHH:MM:SSZ)
- **Field Naming:** snake_case convention
- **Nesting:** Multi-level nested objects and arrays

Example Structure:

```
``json
{
  "data": {
    "type": "patient",
    "id": "12345",
    "attributes": {
      "demographics": {},
      "medications": [],
      "allergies": []
    }
  },
  "meta": {
    "exported_at": "2025-10-11T12:00:00Z",
    "schema_url": "https://example.com/onc-ehi-export-schema.json"
  }
}
```

Data Dictionary

Top-Level Structure

Field	Type	Description
-----	-----	-----
`data`	Object	Contains patient health information
`meta`	Object	Contains export metadata and references

Data Attributes

The `data.attributes` object contains the following categories of health information:

Demographics

Patient identifying and demographic information

Field	Type	Description	Example
-----	-----	-----	-----
`name.first_name`	String	Patient's first name	"John"
`name.last_name`	String	Patient's last name	"Doe"
`name.middle_name`	String	Patient's middle name	"Michael"
`date_of_birth`	String (ISO 8601)	Patient's date of birth	"1980-01-15"
`gender`	String	Patient's gender	"Male"
`race`	String	Patient's race	"White"
`ethnicity`	String	Patient's ethnicity	"Not Hispanic or Latino"
`preferred_language`	String	Patient's preferred language	"English"

Identifiers

Patient identification numbers and codes

Field	Type	Description	Example
-----	-----	-----	-----
`patient_number`	String	Internal patient number	"P123456"
`mr_number`	String	Medical record number	"MR789012"
`ssn`	String	Social Security Number (masked)	"***-**-1234"
`external_ids`	Array	External system identifiers	[...]

Contacts

Contact information and emergency contacts

Field	Type	Description
-----	-----	-----
`addresses`	Array	Patient addresses (home, mailing, etc.)
`phone_numbers`	Array	Phone numbers with type and purpose
`email_addresses`	Array	Email addresses
`emergency_contacts`	Array	Emergency contact persons

Treatment Episodes

Records of admissions and treatment programs

Field	Type	Description
`admission_date`	String (ISO 8601)	Date of admission
`discharge_date`	String (ISO 8601)	Date of discharge
`program_name`	String	Treatment program name
`location`	String	Facility/location name
`level_of_care`	String	Care level (inpatient, outpatient, etc.)

Diagnoses

Medical diagnoses and conditions

Field	Type	Description
`code`	String	ICD-10 or DSM-5 code
`description`	String	Diagnosis description
`diagnosis_date`	String (ISO 8601)	Date of diagnosis
`type`	String	Diagnosis type (primary, secondary, etc.)

Medications

Current and historical medications

Field	Type	Description
`medication_name`	String	Generic or brand name
`dosage`	String	Dose amount
`frequency`	String	Administration frequency
`route`	String	Route of administration
`start_date`	String (ISO 8601)	Start date
`end_date`	String (ISO 8601)	End date (if discontinued)
`prescriber`	String	Prescribing provider name

Allergies

Documented allergies and adverse reactions

Field	Type	Description
`allergen`	String	Substance causing allergy
`reaction`	String	Type of reaction
`severity`	String	Severity level
`onset_date`	String (ISO 8601)	Date of onset

Vital Signs

Physical measurements and observations

Field	Type	Description
`measurement_date`	String (ISO 8601)	Date/time of measurement
`blood_pressure_systolic`	Number	Systolic BP (mmHg)
`blood_pressure_diastolic`	Number	Diastolic BP (mmHg)
`temperature`	Number	Temperature (°F or °C)
`pulse`	Number	Heart rate (bpm)
`respiration_rate`	Number	Breaths per minute
`weight`	Number	Weight (lbs or kg)
`height`	Number	Height (inches or cm)
`bmi`	Number	Body Mass Index

Laboratory Results

Lab test results and findings

Field	Type	Description
`test_name`	String	Name of laboratory test
`result_value`	String/Number	Test result value
`unit`	String	Unit of measurement
`reference_range`	String	Normal reference range
`abnormal_flag`	String	Abnormal indicator (H/L/N)
`collection_date`	String (ISO 8601)	Specimen collection date
`result_date`	String (ISO 8601)	Result date

Patient Evaluations

Clinical assessments and notes

Field	Type	Description
`evaluation_type`	String	Type of evaluation/form
`evaluation_date`	String (ISO 8601)	Date completed
`author`	String	Provider who completed evaluation
`content`	Object/Array	Evaluation content and responses

Group Sessions

Group therapy and educational sessions

Field	Type	Description
`session_name`	String	Name of group session
`session_date`	String (ISO 8601)	Date of session
`duration_minutes`	Number	Session duration
`attendance_status`	String	Attendance status
`topic`	String	Session topic/focus

Preferences

Patient preferences and settings

Field	Type	Description
-----	-----	-----
`communication_preferences`	Object	Preferred contact methods
`language_preference`	String	Preferred language for communication
`privacy_preferences`	Object	Privacy and confidentiality preferences

Metadata Fields

The `meta` object contains export information:

Field	Type	Description
-----	-----	-----
`patient_id`	Number	Internal patient identifier
`patient_mr`	String	Patient medical record number
`exported_at`	String (ISO 8601)	Export timestamp
`exported_by`	String	Name of user who generated export
`schema_url`	String	URL to JSON schema document
`documentation_url`	String	URL to this documentation