CRISP InContext/Clinical Information Service

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InContext App Background
What is CRISP InContext?

- The InContext application provides real-time data from the CRISP HIE within the context of a healthcare provider’s workflow by integrating directly in their electronic health record (EHR) system.
- The CRISP InContext app preloads for the current patient searched within your EMR and does not require additional login or navigation to a new page or environment.
- The InContext app can be a very effective tool when a user is in need of additional clinical information not found within their native EMR.
Why Use the CRISP InContext Service?

• A practitioner, physician, care coordinator, or etc. may need to access clinical information for a patient which is not present in their EHR or internal patient records.
  • Example: A patient new to a practice or roster is a great example where access to additional external clinical data is valuable.

• The CRISP InContext combines data and views in Features that are useful and valuable to clinical users.

• The CRISP InContext may be referred to as HIE InContext or the Clinical Information Service.
• Admit, discharge, or transfer (ADTs) information, which can include patient demographic, diagnostic, and medication history - HL7 messages sent to CRISP when a patient is admitted to a care setting, transferred to another care setting, or discharged from a care setting.

• Insurance information and Claims data - A medical claim is a bill that healthcare providers submit to a patient’s insurance provider. CRISP has access to MD Medicare, MD Medicaid, and Hospital All Payer

• Local and Interstate PDMP

• Patient-specific clinical summary documents, called Continuity of Care Documents (CCDs), which is an electronically generated, patient-specific clinical summary document used to improve communication between healthcare providers during a transition of care

• Continuity of Care Documents through National Networks

• Radiology images and reports

• Laboratory results

• List of an organization’s patients

• Other clinical data including discharge summaries, care notes, advance directive, and care alerts.
• As a EHR user, when I view a patient’s EMR and I click on the CRISP icon in my system, I automatically launch into the CRISP InContext App with the selected patient.

• The InContext App launches within the host EHR – size may vary depending on the vendor you are using.

• CRISP InContext is current integrated with the following EHRs:
What if my EHR isn’t connected with InContext?

• No Problem – you can find the same InContext App within a secure web-based site called CRISP Portal.

• InContext within the CRISP Portal is called the Clinical Information Service

https://portal.crisphealth.org
Launching CRISP InContext from the CRISP Portal requires a patient search

Minimum Search Requirements are:
1. First Name
2. Last Name
3. Date of Birth

Gender and Social Security Number (SSN) can be added to narrow down search results
Launching CRISP InContext from the CRISP Portal

Click the record of the patient of interest to select an application to launch with this patient's data.

Search Results

<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Date of Birth</th>
<th>Gender</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gilbert</td>
<td>Grape</td>
<td>01/01/1964</td>
<td>Male</td>
<td>4145 Earl C Adkins Dr., River, WV, 26000</td>
</tr>
</tbody>
</table>

Select App

- AK Labs and Imaging
- CareTeam
- Clinical Information
- Consent Tool
- COVID Lab Tools
- MOM Care Plan
- PMP
- Post Acute Capacity
- Referrals
- Referral Portal
- Referral Portal CBD
- Referral Portal MCO
- EDAS - Emergency Department Advisor System
- 2020 eCDMs
- HIE Admin Tool
- Snapshot
- Consen Tool
- Prescriber Reports
- MOM Care Plan
- Post Acute Capacity
- 2020 eCDMs
High Level Feature Offerings & User Navigation Features of InContext
High Level Feature Offerings

Patient Information
- Priority Alerts

Medication Management
- PDMP
- PDMP Advisories
- Reported Medications

Clinical Data
- Health Records
- Encounters
- Problems
- Structured Documents (CCDAs)
- Immunizations

Care Coordination
- Care Team
- Care Alerts
- Referral History
- Advance Directives

Social Determinants
- Assessment
- Conditions

Claims Data

Wide View

Compact View
The Clinical Information tab will launch as an eye frame in the CRISP Portal. Users can click the arrow on the side menu to collapse the side bar.
The Clinical Information tab view with the side menu collapsed.
Additionally, users can click the arrow on the InContext side menu to collapse the side bar.
User Navigation Features

Priority Alerts

Priority alerts is a new section which appears on the top tool bar. These alerts will include clinical alerts and infectious control alerts.

Additional Features

- Feedback – send non-PHI feedback to our development staff
- Glossary – definitions of terms used in the application
- About – application version & release notes
User Navigation Features

1. Tell us what you think
   - Patient Information Issue
   - Application Issue
   - Application Enhancement Request
   - General Feedback
   - Comments or suggestions?

2. Glossary
   - Iconography
     - Disclaimer
     - Alert Indicator
     - Image Available
     - Open Document/Report
     - Data Warning
     - Recent Alert
     - Abnormal Result
     - Download PDF

3. HIE InContext
   - Version: 2.35.1.0
   - Release Notes:
     - HIE InContext Release Notes

https://www.crisphealth.org/applications/hie-incontext/#release-notes
User Navigation Features

1. **Search** – search bar will appear allowing you to type to search all columns in the table

2. **View Columns** – toggle each available column on and off
User Navigation Features

**Filter** – users can set criteria to restrict or expand data table results

3. **Filter** – users can set criteria to restrict or expand data table results
User Navigation Features

4. **Disclaimer** – will display disclaimer information about data sources or views

5. **Data Warning** – signals an access or data error
User Navigation Features

6. Download PDF – will download the current view (data table or report) into a pdf
In the Apps widget, users can launch other CRISP applications via the CRISP Portal. Currently, users with the appropriate access can launch:

- **Consent Tool**
- **Referral Tool**
- **MyDirectives DC** – Available for DC-licensed providers only.
Patient Information
The ‘Patient Information’ tab aggregates the demographic information we have in the 'Master Patient Index (MPI)' for your patient. Data in the MPI is pulled from multiple sources and organizations for your patient.
Medication Management
The Medication Management section contains three areas of information:

- Advisories
- PDMP
- Reported Medications
Medication Management

• Advisories are set of four key metrics on the prescriptions of an individual patient over the last 90 days, allowing providers to quickly identify when patients may be at increased risk of overdose.

• Maryland PDMP monitors the prescribing and dispensing of drugs that contain controlled dangerous substances (CDS). The PDMP assists with reducing non-medical use, abuse, and diversion of prescription drugs while preserving legitimate access.

• The Reported Medication section is a compilation of medication data from various sources including Continuity of Care Documents (CCDs) contributed to CRISP to facilitate medication reconciliation and deprescribing, support collaborative care, reduce medication costs and errors, and improve clinical outcomes. The medication management section may not reflect a patient’s complete medication history. Reported Medication can augment the data within a provider’s electronic health record (EMR) to facilitate a medication reconciliation processes that typically takes place within their EMR and utilizing EMR tools for drug-drug / drug-allergy interactions.
Clinical Data
Clinical Data – Health Records

Health Records – displays your patient’s radiology reports, laboratory reports, and clinical notes received from CRISP participants.

- **Imaging Worklist**: within the radiology subtab users can find the Imaging Worklist. This list allows users to compare images across multiple locations.
**Encounters** – displays information regarding your patient’s previous inpatient or outpatient encounters, identified through ADT data. This includes date, source, patient class, and discharge disposition on the ‘All Encounters’ sub-tab. Using the ‘View Columns’ icon, you can also add ‘location’ to the table.
### Clinical Data – Problems

**Problems** – provides a consolidated list of active or unresolved issues obtained from Continuity of Care Documents (CCD), excluding routine patient visits. The purpose of this tab is to enable users to quickly gather relevant medical status information and inform immediate care decisions.

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
<th>First Reported Date</th>
<th>Last Reported Date</th>
<th>Last Reported By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neck Pain</td>
<td>M54.2</td>
<td>2019-01-15</td>
<td>2023-03-12</td>
<td>Meritus Medical Center</td>
</tr>
<tr>
<td>Pain of Right Hand</td>
<td>M79.841</td>
<td>—</td>
<td>2023-03-12</td>
<td>Clinical Associates</td>
</tr>
<tr>
<td>Inflammation of Lung</td>
<td>J18.9</td>
<td>2021-11-29</td>
<td>2023-03-12</td>
<td>Greater Baltimore Medical Center</td>
</tr>
<tr>
<td>Vitamin D Deficiency</td>
<td>E55.9</td>
<td>2020-02-05</td>
<td>2023-03-12</td>
<td>Greater Baltimore Medical Center</td>
</tr>
<tr>
<td>Right Inguinal Hernia</td>
<td>K49.90</td>
<td>2020-08-17</td>
<td>2023-03-11</td>
<td>Clinical Associates</td>
</tr>
<tr>
<td>Hypertension, Benign</td>
<td>401.1</td>
<td>2009-12-04</td>
<td>2023-03-11</td>
<td>Clinical Associates</td>
</tr>
<tr>
<td>Nausea with Vomiting</td>
<td>787.01</td>
<td>2015-08-22</td>
<td>2023-03-11</td>
<td>Clinical Associates</td>
</tr>
<tr>
<td>Onychomycosis Due to Dermatophyte</td>
<td>402134905</td>
<td>—</td>
<td>2023-03-11</td>
<td>Podiatry Associates PA</td>
</tr>
<tr>
<td>Pre-Op Evaluation</td>
<td>863154</td>
<td>—</td>
<td>2023-03-11</td>
<td>Clinical Associates</td>
</tr>
<tr>
<td>Abdominal Bloating</td>
<td>57950</td>
<td>2018-01-09</td>
<td>2023-03-11</td>
<td>Clinical Associates</td>
</tr>
<tr>
<td>Menorrhagia with Regular Cycle</td>
<td>N92.0</td>
<td>2022-12-09</td>
<td>2023-03-10</td>
<td>Meritus Medical Center</td>
</tr>
</tbody>
</table>
Structured Documents – The ‘Structured Documents’ area displays any ‘Continuity of Care Documents’ (CCDs) for your patient from CRISP participants including participants from outside the state through CRISP’s participation on eHealth Exchange Hub and Carequality. A CCD is a generic name for an electronically generated document that summarizes either an episode of care for a patient or contains a longitudinal summary of care for that patient.
Clinical Data – Structured Documents
**Immunizations** – When immunization data becomes available, the ‘Immunizations’ tab displays any immunization records CRISP has on your patient. The table displays the immunization administered date, vaccine name, location where patient received the immunization, and data source. Immunization information is also available in the CCDs located under the ‘Structured Documents’ tab.
Care Coordination
Care Coordination – Care Team

The ‘Care Coordination’ section displays four tabs: Care Team, Care Alerts, Referral History, and Advance Directives. Care Team lists the organizations and providers that have a relationship with your patient. This can include your patient’s care program and care manager and identifies the ‘start date’ and ‘last updated’ dates for a Care Team relationship. Care Team data is populated from ADTs and patient panels submitted to CRISP.
### Referral History

<table>
<thead>
<tr>
<th>Date of Referral</th>
<th>Source</th>
<th>Program Name</th>
<th>Status</th>
<th>Last Updated</th>
</tr>
</thead>
<tbody>
<tr>
<td>2022-07-05</td>
<td>CRISPReferralUI</td>
<td>Ghost Memorial Urgent Care</td>
<td>Pending</td>
<td>2022-07-05</td>
</tr>
<tr>
<td>2022-07-05</td>
<td>CRISPReferralUI</td>
<td>WAH SNF Transitions</td>
<td>Pending</td>
<td>2022-07-05</td>
</tr>
<tr>
<td>2022-07-05</td>
<td>CRISPReferralUI</td>
<td>ERSD Transitions</td>
<td>Pending</td>
<td>2022-07-05</td>
</tr>
<tr>
<td>2022-05-17</td>
<td>CRISPReferralUI</td>
<td>A/EmailTest1</td>
<td>Pending</td>
<td>2022-05-17</td>
</tr>
<tr>
<td>2022-05-17</td>
<td>CRISPReferralUI</td>
<td>A/EmailTest1</td>
<td>Pending</td>
<td>2022-05-17</td>
</tr>
<tr>
<td>2022-05-03</td>
<td>CRISPReferralUI</td>
<td>A/EmailTest2</td>
<td>Pending</td>
<td>2022-05-03</td>
</tr>
<tr>
<td>2022-05-03</td>
<td>CRISPReferralUI</td>
<td>A/EmailTest2</td>
<td>Pending</td>
<td>2022-05-03</td>
</tr>
<tr>
<td>2022-02-15</td>
<td>CRISPReferralUI</td>
<td>A/EmailTest1</td>
<td>Pending</td>
<td>2022-02-15</td>
</tr>
<tr>
<td>2022-02-15</td>
<td>CRISPReferralUI</td>
<td>Monoclonal Antibody</td>
<td>Pending</td>
<td>2022-02-15</td>
</tr>
<tr>
<td>2022-02-15</td>
<td>CRISPReferralUI</td>
<td>Absolutely I do</td>
<td>Pending</td>
<td>2022-02-15</td>
</tr>
<tr>
<td>2022-02-15</td>
<td>CRISPReferralUI</td>
<td>Indigo Program</td>
<td>Pending</td>
<td>2022-02-15</td>
</tr>
<tr>
<td>2022-02-15</td>
<td>CRISPReferralUI</td>
<td>A/EmailTest1</td>
<td>Pending</td>
<td>2022-02-15</td>
</tr>
<tr>
<td>2022-02-15</td>
<td>CRISPReferralUI</td>
<td>Potomac Valley Nutrition Program</td>
<td>Pending</td>
<td>2022-02-15</td>
</tr>
<tr>
<td>2022-02-15</td>
<td>CRISPReferralUI</td>
<td>RobRobRobRob</td>
<td>Pending</td>
<td>2022-02-15</td>
</tr>
</tbody>
</table>
### Advance Directives

<table>
<thead>
<tr>
<th>Date</th>
<th>Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2023-04-14</td>
<td>West Virginia End Of Life Registry</td>
<td>This patient has an Advance Directive available. This document was submitted on 2023-04-14 and is effective on 2023-04-13.</td>
</tr>
<tr>
<td>2023-04-10</td>
<td>West Virginia End Of Life Registry</td>
<td>This patient has an Advance Directive available. This document was submitted on 2023-04-10 and is effective on 2023-04-11.</td>
</tr>
<tr>
<td>2023-04-10</td>
<td>West Virginia End Of Life Registry</td>
<td>This patient has an Advance Directive available. This document was submitted on 2023-04-10 and is effective on 2023-04-10.</td>
</tr>
</tbody>
</table>
Social Needs Data
### Assessments

<table>
<thead>
<tr>
<th>Date</th>
<th>Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2022-09-15</td>
<td>SAH</td>
<td>CTOSDOH</td>
</tr>
<tr>
<td>2022-01-04</td>
<td>Meritus Health Inc</td>
<td>CTOSDOH</td>
</tr>
<tr>
<td>2022-01-04</td>
<td>Meritus Health Inc</td>
<td>CTOSDOH</td>
</tr>
<tr>
<td>2022-01-04</td>
<td>Meritus Health Inc</td>
<td>CTOSDOH</td>
</tr>
<tr>
<td>2021-05-20</td>
<td>Medstar Georgetown University Hospital</td>
<td>AHC</td>
</tr>
</tbody>
</table>
A “Conditions” subtab under Social Needs Data section displays Social Determinants of Health information using ICD-10 z-Codes from ADTs. When used, these codes will highlight whether the patient has experienced problems related to education, literacy, employment, housing, psychosocial circumstances, and other social issues that have a known impact on health.
Data From Claims
The Data from Claims widget displays Claims data for Maryland, District of Columbia, and West Virginia across multiple payors. This claims data includes Medications, Diagnoses, Procedures, and Encounters refreshed monthly. The claims in each tab are displayed in chronical order. Currently CRISP receives and displays claims data from the following sources:

- **Medicaid** – DC, MD, and WV
- **Medicare** – MD
- **Hospital inpatient and outpatient, all-payer** – MD
Updates/Releases
When is CRISP InContext Updated

- Updates, new features, and enhancements are released about every month to 6 weeks. Data within the application will refresh at near real time to monthly depending on the source.
- Release notes are shared with users a few weeks prior to the next version release & stored on the CRISP Website
- [https://www.crisphealth.org/incontext/](https://www.crisphealth.org/incontext/)
Questions?