



Puerto Rico

Health Information Exchange Status Update

June 17, 2021





Agenda

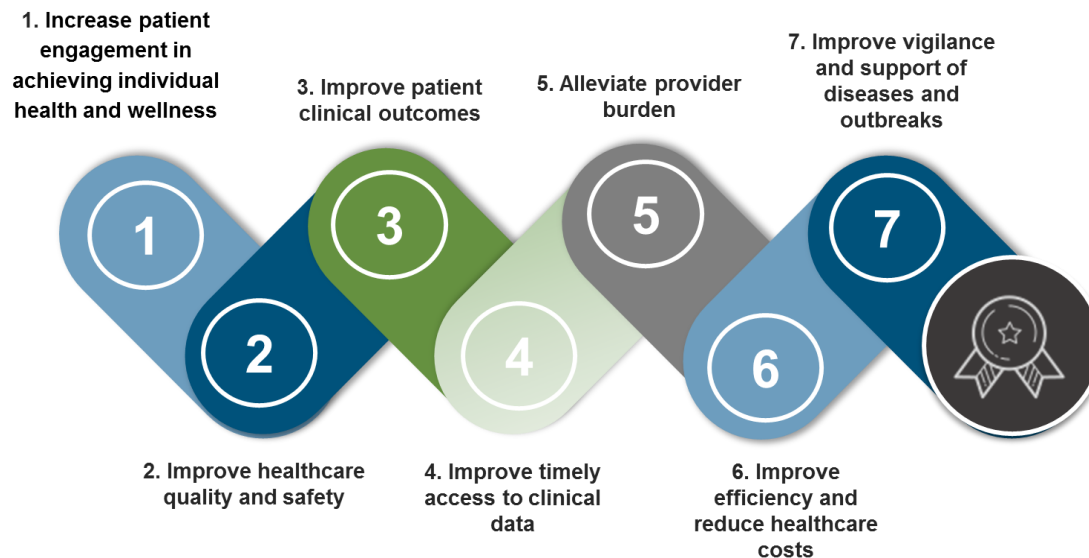
- Introductions
- Puerto Rico Health Information Network (PRHIN) and Puerto Rico Health Information Exchange (PRHIE)
- Status of PRHIE
- Next Steps
- Open Discussion



PRHIN and PRHIE

PRHIN

- PRHIN was created in February 2012 by Puerto Rico Law PR 40 to comply with a federal provision to improve health services.
- Although PRHIN is governed independently from PRDoH and the Medicaid program, PRDoH and PRHIN will continue its strong partnership moving forward to coordinate strategic decisions regarding the Medicaid and PRHIE enterprise to achieve the following goals:





PRHIN and PRHIE

PRHIE VISION

The Puerto Rico Health Information Exchange vision is to implement a robust health information technology and health information exchange infrastructure for the benefit of individuals, families, providers, and other key stakeholders across the island of Puerto Rico.





Interoperability

With respect to health IT, means such health IT that enables the secure exchange of electronic health information with, and use of electronic health information from, other health IT without special effort on the part of the user; allows for complete access, exchange, and use of all electronically accessible health information for authorized use under applicable state or federal law

Section 3000 of the Public Health Service Act

Assessment Approach



Collect Information:

- Current HIT Environment
- Desired Future HIT Environment



Identify and Document **Gaps** between Current vs. Desired Future HIT Environment



Develop **Recommendations** to Close Gaps



Stakeholder Engagement



**Web surveys
by email**

- (ASSMCA)
- Dentists
- Physicians
- Nurses
- Pharmacists
- Hospitals
- Interoperability Workgroup CMS
- 330



Meetings

- PRDoH Health Insurance Portability and Accountability Director
- Offices of Epidemiology and Biosecurity
- Independent Physicians Association
- PRDoH Immunization Program
- Puerto Rico Medicaid Program Director
- Representatives of the Health Insurance Sector
- Health Gorilla consultants
- Bridgewater Consulting Group
- American Association of Retired Persons (AARP)
- Community Pharmacies
- Colegio de Dentistas de Puerto Rico
- Colegio de Enfermeras de Puerto Rico
- Alianza Salud Para Un Pueblo
- Office of the Patient Advocate
- Recinto de Ciencias Médicas

* Stakeholders were contacted but did not respond for participation

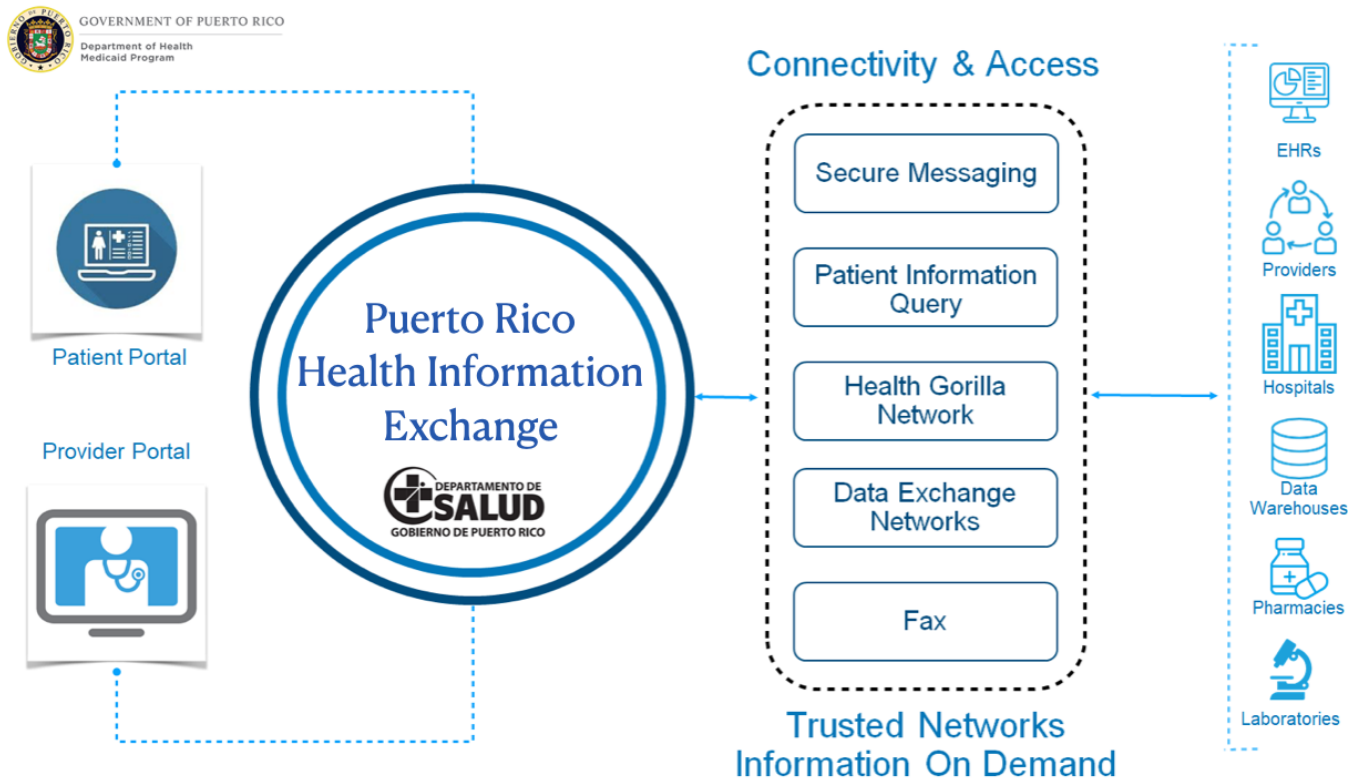
Findings

As a result of the assessment, the firm identified 17 gaps between the current and desired future HIT/HIE environment across five assessment areas.

Assessment Area	Number of Gaps
Governance/Operations	4
Technology	7
Finance	2
Policy/Legal	3
Stakeholder Readiness	1
Total	17

PRHIN and PRHIE

The PRHIE is a technology solution that enables the appropriate and confidential electronic exchange of clinical information among authorized organizations.



Status of PRHIE

Executive Summary

- The following labs are currently connected to the PRHIE and sending health level seven (HL7) structured data:
 - LabInfo Systems
 - Lab Ramírez
 - TekPro
 - Syndeo
 - Lab Warehouse
 - CL Tech
- StarLIMS and Epidemiology is connected to PRHIE
- HURRA
- ASEM is connected to PRHIE
- OA 498

Risks

- Onboarding SAIL's stakeholders
- Contractual agreement between Infomedika and their clients



PRHIE

- User Sign Up and Account Creation
- Patient Portal
 - Master Patient Index (MPI)
- Provider Portal
 - Lab Results Over Time

Clinician and Staff: Sign Up and Account Creation

1. Invitation from an existing account

2. Sign up directly online




Company Users

+ Add New User

+ Invite Clinicians

Home > Choose account type

I want to sign up as a:

 Patient Manage your health information and connect with your physicians	 Clinician Oversee patient records, order labs, view data insights, and message with other providers	 Medical Staff Access patient records, view data insights, order labs, and manage user accounts
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Already have an account? [Login](#)

Patient Sign Up and Account Creation

1. Invitation from provider or staff from the Providers Portal


Invite Patient

Patient Test does not have access to Health Gorilla Clinical Network yet. Please provide or verify the patient's email below and we will send an invitation to join.




[Cancel](#) [Invite](#)

2. Sign up directly online

Home > Choose account type



I want to sign up as a:

 <p>Patient</p> <p>Manage your health information and connect with your physicians</p>	 <p>Clinician</p> <p>Oversee patient records, order labs, view data insights, and message with other providers</p>	 <p>Medical Staff</p> <p>Access patient records, view data insights, order labs, and manage user accounts</p>
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[Already have an account? Login](#)

Patient Sign Up - Email Verification

Sign up > Email verification



Email verification

We sent a verification code to your email address [email-address].

Please enter it below:

[Didn't get the code?](#)

[Verify email](#)

[Cancel](#)

Upload Documents

- User uploads a picture of their government issued ID:
 - Passport
 - Driver's license
 - ID card

Registro de pacientes / verificación de identidad

Gracias por su solicitud. Para completar su inscripción, necesitaremos reunir cierta documentación adicional. Por favor, tenga a mano su permiso de conducir, documento de identidad emitido por el Estado o pasaporte. Siga las instrucciones para subir una foto de su documento.

Por favor, seleccione el tipo de documento
Permiso de conducir

Sube imágenes de tu documento. Solo archivos JPEG / PNG [?](#)



2018-02-05-PHOTO-00000207.jpg

Eliminar



2018-02-05-PHOTO-00000208.jpg

Eliminar

Si tiene dificultades con el proceso de verificación, comuníquese con el servicio de asistencia al [844-446-7455](tel:844-446-7455) o support@healthgorilla.com.

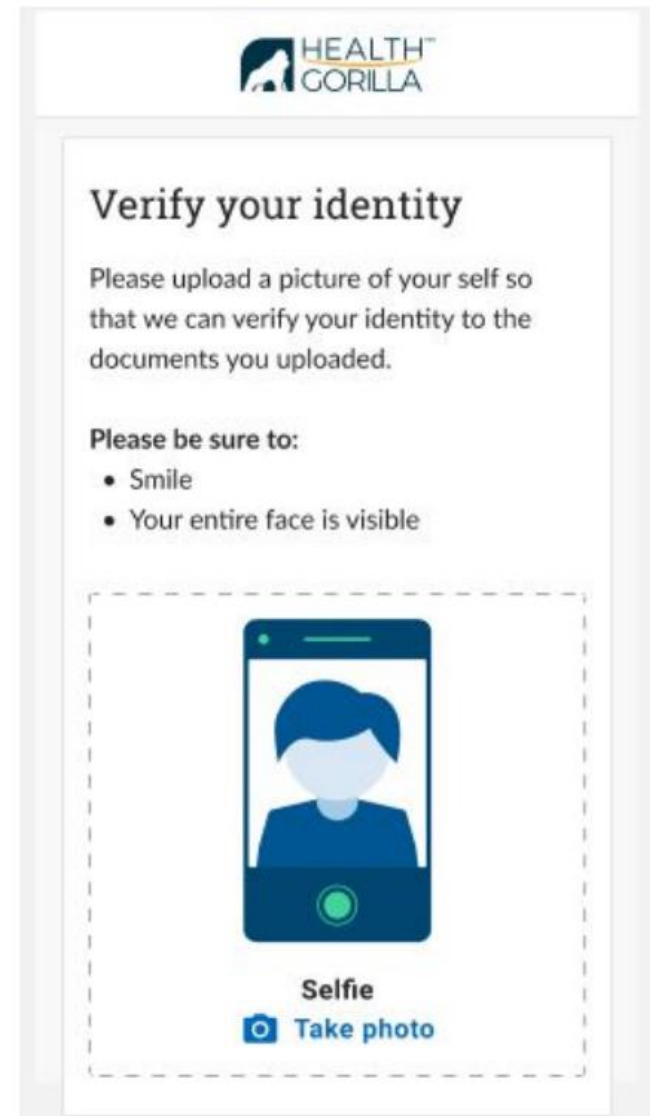
Volver

Siguiente

PRHIE

Selfie

- Upload a selfie
- PRHIE admin to verify selfie against the ID
- Selfie is important for the the admin to verify the identity of the user creating account with the information provided

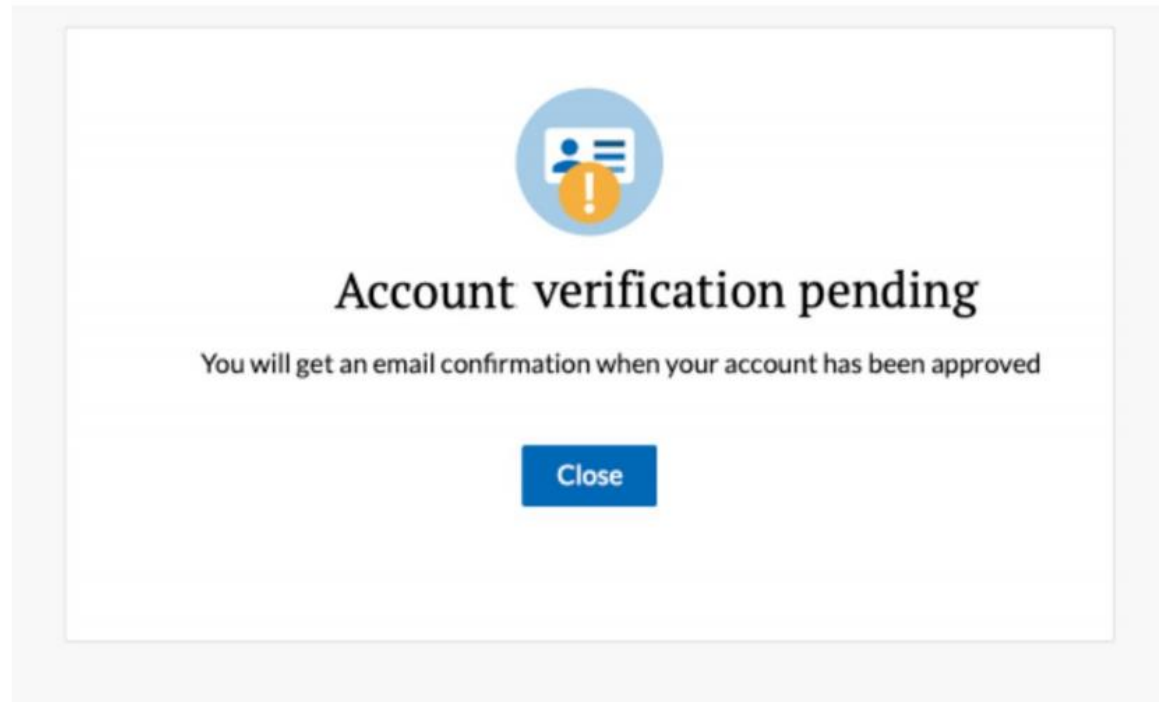




PRHIE

Pending approval

User signing up receives notification that their account is pending approval. An activation link will be sent once the account has been approved by PRHIE admin.





Patient and Provider Portals

Patient Portal

PHONE: 1-844-446-7455 | support@healthgorilla.com | SUPPORT TEST PATIENT

HEALTH GORILLA
TRUSTED. VERIFIED. NETWORK.

Find Providers, Vendors, Tests Near Ontario, CA Search

Actions

- Home
- My Records
- Requests
- Messages
- HumanGraph™
- Doctors
- Settings

Dashboard

My Medical Records Requests [Request records BETA](#)


Date Requested	Sent To	Status	Submitted Form

My Records

<p>Documents</p> <p>You have no records</p>	<p>Progress Notes</p> <p>You have no records</p>	<p>History & Physical</p> <p>You have no records</p>	<p>Labs/Imaging</p> <p>You have one record</p>
<p>Orders</p> <p>You have no records</p>	<p>Diagnoses</p> <p>You have 66 records</p>	<p>Medications</p> <p>You have 68 records</p>	<p>Allergies</p> <p>You have 21 records</p>
<p>Immunizations</p>	<p>Vital Signs</p>	<p>Procedures</p>	<p>Family History</p>

Patient chart

- View medical chart and documents

 Medications

Find Providers, Vendors, Tests

Near Ontario, CA

[Search](#)

Medications:

Medication	Instructions	Quantity	Status	Started	Stopped	Indication	Doctor
Colace 100 MG Manufacturer: QUALITYCARE	Orally Once a day every 24h		active	12/9/2019	1/8/2020		Test Provider
Magnesium Citrate 100 MG Manufacturer: WALGREENS	Orally once a day every 24h		active	12/9/2019	1/8/2020		Test Provider
losartan (COZAAR) 100 MG tablet	Take 1 tablet by mouth daily, 100 mg [route: oral]	90	active	9/23/2019			Test Provider
Lisinopril 40 MG Manufacturer: HIKMA	Orally Once a day every 24h		active	9/18/2019			Test Provider
Cranberry-Milk Thistle (LIVER & KIDNEY CLEANSER) 250-75 MG Cap	Takes 1 Capsule Daily [route: oral]		active	8/27/2019			Test Provider
sertraline (ZOLOFT) 25 MG tablet	Take 1 tablet by mouth daily, 25 mg [route: oral]	30	active	8/27/2019			Test Provider
levothyroxine (SYNTHROID, LEVOTHROID) 88 MCG tablet	Take 1 tablet (88 mcg total) by mouth every morning, 88 ug every 1 d [route: oral]	90	active	4/9/2019			Not Required Pcp
norethindrone (MICRONOR) 0.35 mg tablet	Take 1 tablet (0.35 mg total) by mouth daily, Micronor 1 tab po QD 0.35 mg every 1 d [route: oral]	3	active	4/4/2019			Not Required Pcp
atorvastatin (LIPITOR) 20 MG tablet	TAKE 1 TABLET BY MOUTH DAILY 20 mg [route: oral]	90	active	3/14/2019			Test Provider
losartan (COZAAR) 50 MG tablet	TAKE 1 TABLET BY MOUTH DAILY 50 mg [route: oral]	90	aborted	3/14/2019	9/23/2019		Test Provider
Prolla 60 MG/ML Manufacturer: AMGEN	Subcutaneous every 6 months		active	2/21/2019	2/10/2021		Test Provider
Vitamin B12 1000 MCG Manufacturer: RUGBY LABORATORIES	Orally Once a day every 24h		active	6/1/2017			Test Provider
Donepezil 40 MCG	Orally Once a day		active	4/14/2016			Test

Actions

- Home
- My Records
- Documents
- Progress Notes
- History & Physical
- Labs/Imaging
- Shared with me
- Orders
- Diagnoses
- Medications
- Allergies
- Immunizations
- Vital Signs
- Procedures
- Family History
- Social History
- Encounters
- Plan of Care

Patient chart

Patient Chart

Find

Search

Test Patient4, Female, 09/09/2000 (20 years)
Add to Patient360

New Order
New Referral
Upload Document
New Encounter
Send Message
Patient Access
Export C-CDA
Import C-CDA

First Name	Test
Last Name	Patient4
DOB	09/09/2000
Gender	Female
ID	1178895
Home Phone	(787) -
Cell Phone	(650) 272-1218
Address	1414-4545, Test Address, Bayamon, PR 00959
Need Translator	No
Race	Unknown
Ethnicity	Unknown

Edit

Record Locations

Care Organizations	Name	Address	Phone

Labs and Imaging	Name	Address	Phone
	RADNet (VRI, NorCal)		
	LabCorp		

Close Chart

Demographics

HumanGraph™

Messages (2)

Tel Encounters

Orders

Future Orders

Labs/Imaging

Documents (1)

Progress Notes

History and Physical

Referrals (1)

Chart updates

ADT Events

Insurance

Diagnoses

10:41
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← Patients
Patient

Test Patient4

Female, DOB: 09/09/00

📄 Demographics
>

📄 Insurances
>

🔍 Diagnoses
>

💊 Medications
4 >

🩺 Allergies
2 >

💉 Immunizations
1 >

📍 Vital Signs
>

🔑 Procedures
>

📖 Family History
>


📖 Social History
>

Inbox

Patients

Settings

Medication


Patient Chart

Find Search for patient by name, DOB or provider by name, speciality, location
Search

Test Patient4, Female, 09/09/2000 (20 years) Add to Patient360

New Order
New Referral
Upload Document
New Encounter
Send Message
Patient Access
Export C-CDA
Import C-CDA

Medications: + Add

Medication	Instructions	Quantity	Status	Started	Stopped	Indication	Doctor	
Cefepime HCl	Synthroid ml/min [route: respiratory (inhalation)]	Form: INHALANT	completed	9/28/2014 9:47 PM	9/28/2014 9:47 PM		Martin Rodriguez	Remove
Cephalexin	Synthroid ml/min [route: respiratory (inhalation)]	Form: INHALANT	completed	9/28/2014 9:47 PM	9/28/2014 9:47 PM		Martin Rodriguez	Remove
FLUoxetine HCl	Synthroid ml/min [route: respiratory (inhalation)]	Form: INHALANT	completed	9/28/2014 9:47 PM	9/28/2014 9:47 PM		Martin Rodriguez	Remove
Synthroid	Synthroid ml/min [route: respiratory (inhalation)]	Form: INHALANT	completed	9/28/2014 9:47 PM	9/28/2014 9:47 PM		Martin Rodriguez	Remove

Close Chart

Medications

Allergies

Immunizations

Vital Signs

Procedures

Family History

Social History

Encounters

Plan of Care

Med Equipment

Functional Status

Advance Directives

Miscellaneous

Sharing (ON)

10:41
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← Patient
Medications

Synthroid
Martin Rodriguez

inhalant [route: respiratory (inhalation)]
• Synthroid

FLUoxetine HCl
Martin Rodriguez


inhalant [route: respiratory (inhalation)]
• Synthroid


Cefepime HCl
Martin Rodriguez


inhalant [route: respiratory (inhalation)]
• Synthroid

Cephalexin
Martin Rodriguez

inhalant [route: respiratory (inhalation)]
• Synthroid


Inbox


Patients


Settings

Medication - Details

Patient Chart Find Search for patient by name, DOB or provider by name, speciality, location **Search**

Test Patient4, Female, 09/09/2000 (20 years) Add to Patient360

New Order New Referral Upload Document New Encounter Send Message Patient Access Export C-CDA Import C-CDA

View Medication

Provider: Start Date:

Medication: Synthroid End Date:

Period: Dose:

Status: Manufacturer:

Route:

Instruction:

Indications:

Sources:
Continuity of Care Document 06/06/2017 07:43 AM

Cancel

on Doctor #

Martin Rodriguez	Remove
Martin Rodriguez	Remove
Martin Rodriguez	Remove
Martin Rodriguez	Remove

Medications

Allergies

Immunizations

Vital Signs

Procedures

Family History

Social History

Encounters

Plan of Care

Med Equipment

Functional Status

Advance Directives

Miscellaneous

Sharing (ON)

10:42

[Medications](#) **Details**

Synthroid

Doctor: Martin Rodriguez

Instructions: inhalant [route: respiratory (inhalation)]
• Synthroid

Started: September 28, 2014
Stopped: September 28, 2014

Inbox Patients Settings

Allergies

Patient Chart

Find Search for patient by name, DOB or provider by name, speciality, location Search

Test Patient4, Female, 09/09/2000 (20 years) Add to Patient360

New Order New Referral Upload Document New Encounter Send Message Patient Access Export C-CDA Import C-CDA

Allergies, Adverse Reactions, Alerts: + Add

Substance	Reaction	Status	Documented	Started	Completed		
Aspirin	Nausea	Active	9/27/2014 3:40 AM	9/27/2014 3:40 AM	9/27/2014 3:40 AM	Drug	Remove
Penicillin G Benzathine	Hives	Active	9/27/2014 3:40 AM	9/27/2014 3:40 AM	9/27/2014 3:40 AM	Drug	Remove

- Allergies
- Immunizations
- Vital Signs
- Procedures
- Family History
- Social History
- Encounters
- Plan of Care
- Med Equipment
- Functional Status
- Advance Directives
- Miscellaneous
- Sharing (ON)
- Affiliation (OFF)
- Patient Access (OFF)

10:44

< Patient **Allergies**

Aspirin active
Drug Allergy (Moderate)


Nausea

Penicillin G Benzathine active
Drug Allergy (Moderate)

Hives

Inbox Patients Settings

Immunizations


Patient Chart

Find

Search

Test Patient4, Female, 09/09/2000 (20 years) Add to Patient360

New Order
New Referral
Upload Document
New Encounter
Send Message
Patient Access
Export C-CDA
Import C-CDA

Immunizations: + Add

Vaccine	Route	Date	Status	Dose	Instruction	Doctor	
Influenza virus vaccine Lot #: 1	Intramuscular injection	9/2/2010	completed	1 mcg		Martin Rodriguez	Remove

Close Chart

- Allergies
- Immunizations
- Vital Signs
- Procedures
- Family History
- Social History
- Encounters
- Plan of Care
- Med Equipment
- Functional Status
- Advance Directives
- Miscellaneous
- Sharing (ON)
- Affiliation (OFF)
- Patient Access (OFF)

10:48
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<
Patient
Immunizations

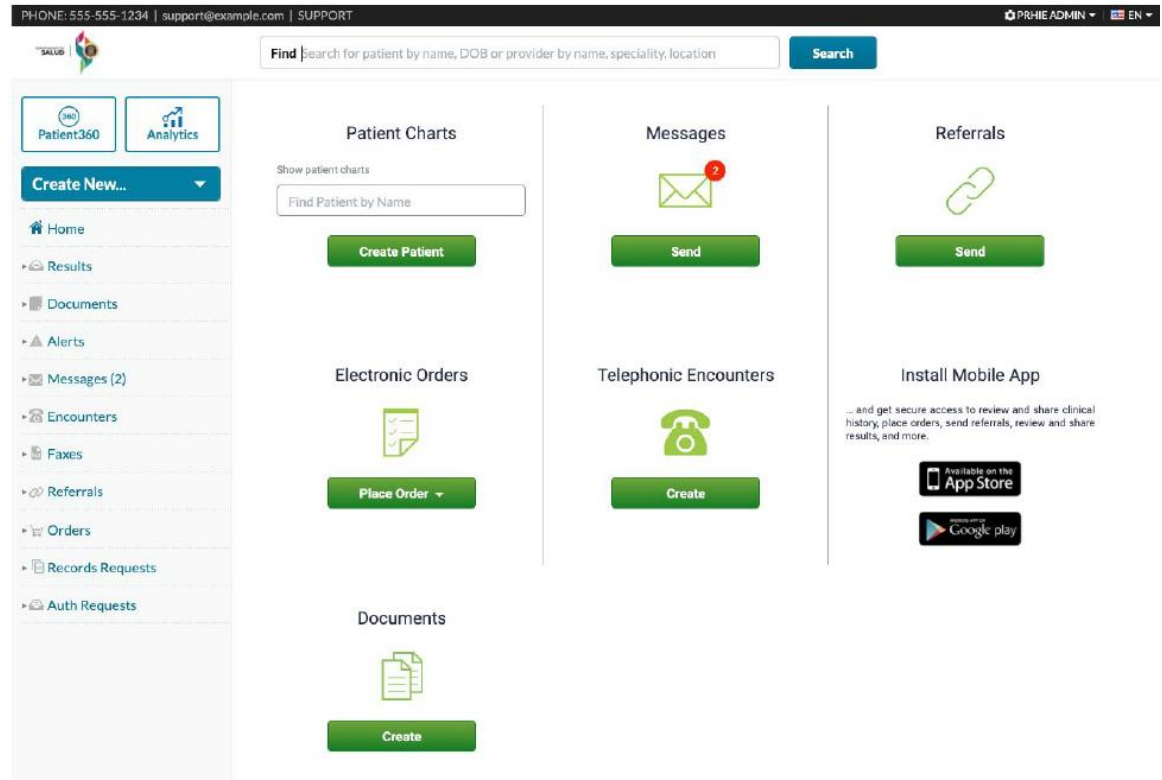
Influenza virus vaccine completed

Intramuscular injection, 1 mcg

📧
Inbox
13
Patients
⚙️
Settings

Provider Portal

- Search for patients
- View incoming lab results
- Send and read messages



The screenshot displays the PRHIE Provider Portal interface. At the top, it shows contact information: PHONE: 555-555-1234 | support@example.com | SUPPORT, and user details: PRHIE ADMIN | EN. A search bar is present with the text "Find Search for patient by name, DOB or provider by name, speciality, location" and a "Search" button.

The main content area is divided into several sections:

- Patient Charts:** Includes a "Show patient charts" section with a "Find Patient by Name" search box and a "Create Patient" button.
- Messages:** Features an envelope icon with a red notification badge and a "Send" button.
- Referrals:** Includes a paperclip icon and a "Send" button.
- Electronic Orders:** Shows a checklist icon and a "Place Order" button.
- Telephonic Encounters:** Features a telephone icon and a "Create" button.
- Documents:** Includes a document icon and a "Create" button.
- Install Mobile App:** Promotes the mobile application with "Available on the App Store" and "Get it on Google play" buttons, and a descriptive text: "... and get secure access to review and share clinical history, place orders, send referrals, review and share results, and more."

A left-hand navigation sidebar contains the following items:

- Patient360
- Analytics
- Create New...
- Home
- Results
- Documents
- Alerts
- Messages (2)
- Encounters
- Faxes
- Referrals
- Orders
- Records Requests
- Auth Requests

Covid-19 testing over time (same patient)

- 9/28/20 - Tested Negative

- 10/15/21 - Tested Positive

Male, 03/30/1966 (55 years)

New Order | New Referral | Upload Document | New Encounter | Send Message | Patient Access | Export C-CDA | Import C-CDA

Filter

Forward | Sign | Lock | Print | PDF | Box | Refresh | Read | Follow Up | Share | Event Log

- 10/21/2020 LabInfo Systems, COVID-19 RNA ... Final
- 10/15/2020 LabInfo Systems, COVID-19 RAPL... Final
- 10/10/2020 LabInfo Systems, COVID-19 RAPL... Final
- 09/28/2020 LabInfo Systems, COVID-19 RAPL... Final

Source: LabInfo Systems Result Received: 09/28/2020 09:02 AM
 Total Abnormal Results: 0 Result Modified: 09/28/2020 09:02 AM
 Accession Number: 0201-4930 Lab Ref #: 0201-28797
 Date of Report: 09/28/2020 08:07 AM Status: Final
 Referring Doctor: Joel Lopez-Guzman

Table of Contents:

- COVID-19 RAPID TEST
- Places of Service

COVID-19 RAPID TEST
 Collected: 09/28/2020 07:11 AM Reported: 09/28/2020 08:07 AM

COVID-19 IgG (Negative)	Negative	1
COVID-19 IgM (Negative)	Negative	1

Places of Service

1	LABORATORIO CLINICO CARDONA LAMELA CALLE SAN ANTONIO #94 A SUITE 1, ISABELA, PR 00662-2955	CLIA: 40D0658115
---	---	------------------

Male, 03/30/1966 (55 years)

New Order | New Referral | Upload Document | New Encounter | Send Message | Patient Access | Export C-CDA | Import C-CDA

Filter

Forward | Sign | Lock | Print | PDF | Box | Refresh | Read | Follow Up | Share | Event Log

- 10/21/2020 LabInfo Systems, COVID-19 RNA ... Final
- 10/15/2020 LabInfo Systems, COVID-19 RAPL... Final
- 10/10/2020 LabInfo Systems, COVID-19 RAPL... Final
- 09/28/2020 LabInfo Systems, COVID-19 RAPL... Final

Source: LabInfo Systems Result Received: 10/15/2020 11:09 AM
 Total Abnormal Results: 0 Result Modified: 10/15/2020 11:09 AM
 Accession Number: 0201-4930 Lab Ref #: 0201-29955
 Date of Report: 10/15/2020 10:24 AM Status: Final
 Referring Doctor: Aracelio Camacho-Vega

Table of Contents:

- COVID-19 RAPID TEST
- Places of Service

COVID-19 RAPID TEST
 Collected: 10/15/2020 09:52 AM Reported: 10/15/2020 10:24 AM

COVID-19 IgG (Negative)	Positive	1
COVID-19 IgM (Negative)	Positive	1

Places of Service

1	LABORATORIO CLINICO CARDONA LAMELA CALLE SAN ANTONIO #94 A SUITE 1, ISABELA, PR 00662-2955	CLIA: 40D0658115
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Lab results

- Receive discrete lab results directly from the lab
- Can graph lab results over time for lab results from the same lab





Next Steps

Expected Patient Portal Go Live	Site	Data Shared by 7/1/21
7/1/21	HURRA	CCDA, LAB
	Auxilio Mutuo	ADT, Labs
	Wilma Vazquez	CCDA, LAB
	Sistema de Salud Menonita	CCDA, LAB, ADT, RADS
	San Lucas	LAB, ADT
	MMC / Dorado Health	CCDA, LAB, ADT, RADS
7/15/21	Site	Data Shared by 7/15/21
	ASEM	ADTS, CCDA
	Pavia	ADT, RAD, CCDA
	Caribbean Medical	CCDA
	Buen Samaritano	CCDA
	San Cristobal	ADT, RAD, CCDA
	Hospital Damas	ADT, RAD, LAB
	Bella Vista	ADT
	FQHC - 330 (eClinical Works)	CCDAs
	CLTech	LAB
	HURRA	ADT, RAD
	Auxilio Mutuo	CCDA, RAD
	Wilma Vazquez	ADT
	San Lucas	CCDA, RAD



Questions and Open Discussion





Thank you!

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www.salud.gov.pr/prhie