
The New England Approach to HIPAA

John D. Halamka MD

Chairman, New England Health EDI Network

CIO, CareGroup Healthcare System



Three part approach

- Administrative Simplification
- Security/Confidentiality
- Education



Our Innovative Approach - NEHEN

The New England Healthcare EDI Network (NEHEN) is a consortium of regional payers and providers who have designed and implemented a secure and innovative electronic-commerce solution for reducing administrative costs in healthcare.



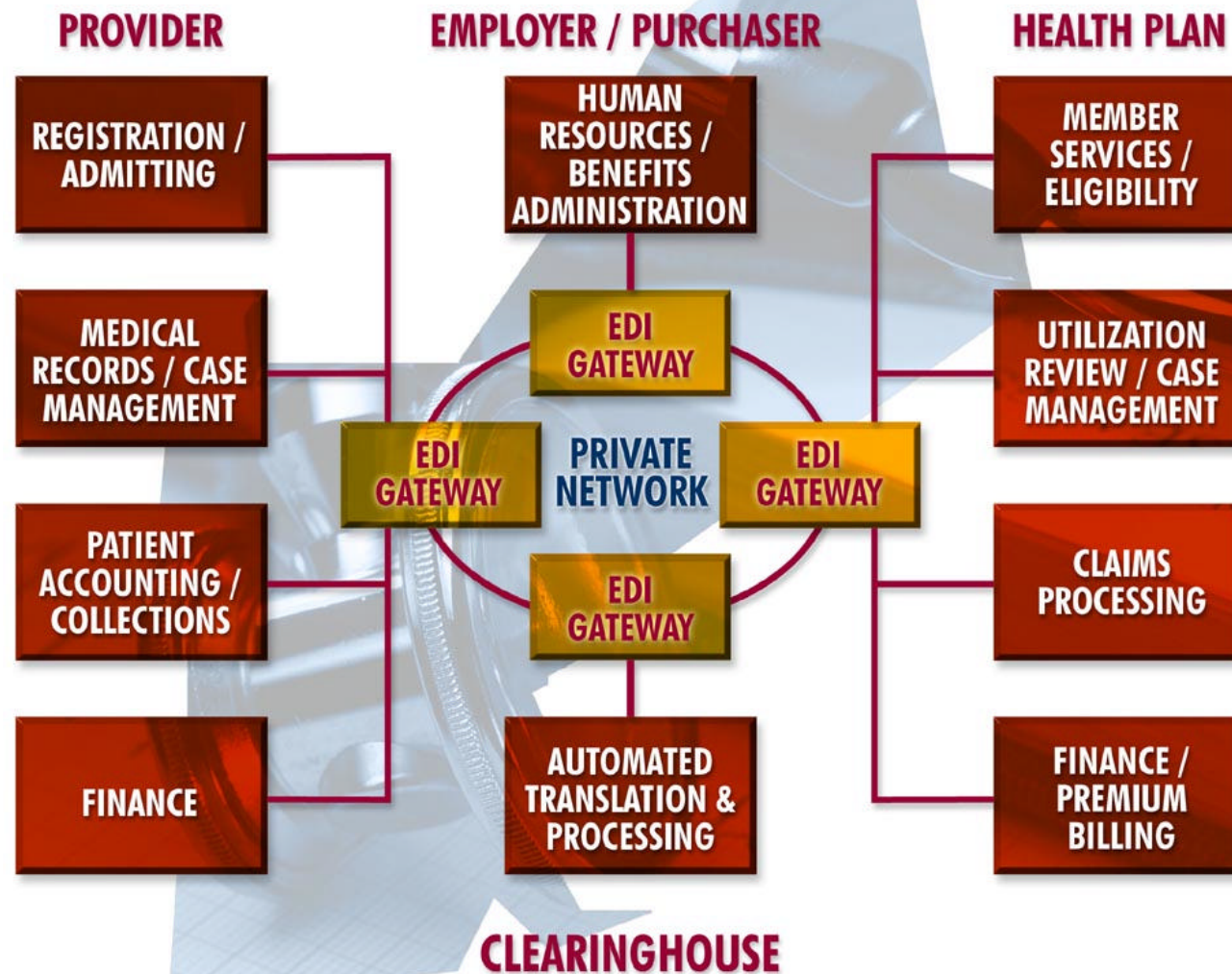
Children's Hospital
Boston



UMassMemorial



The NEHEN Model



NEHEN History

August 1997	• CSC engaged for feasibility study
October 1997	• Initial NEHEN discussions
February 1998	• Bourbon Street Coalition
April 1998	• Beta versions of software tested
June 1998	• Eligibility Pilot started
August 1998	• Web front-end introduced
September 1998	• Original governance documents
December 1998	• Referral implementation guide completed
November 1999	• Incorporation (NEHEN LLC)

Affiliated Networks of New England

- 24 regional providers and payers
- Common interest and collaboration on:
 - Confidentiality
 - EMPI strategies
- Common vision on:
 - Identifiers
 - Clinical and insurance EDI
- Forum for IT leadership networking
 - Unwieldy forum for implementation



NEHEN

- Formation
 - Collaborative approach to mutual implementation and adoption
 - Communicate value proposition and potential ROI
 - Create a business-like but collegial atmosphere
- Solution Approach
 - Standards- based
 - Secure extranet connecting the participants
 - Integration with enterprise applications
 - Cost-saving, rather than revenue-generating business model
 - Insourcing model
 - Shared development and intellectual property



Business Model

- Each organization is responsible for:
 - Implementation fees, network fees and a monthly Program Management fee.
 - Security
 - Generating and accepting HIPAA compliant transactions.
- Collaborative and “Win/Win”
 - Payers & Providers benefit by sharing administrative data electronically.
 - Each member has an equal voice.
 - All members receive the gateway software, web browser user interface and the Eligibility & Referral Dataset Implementation Guides.

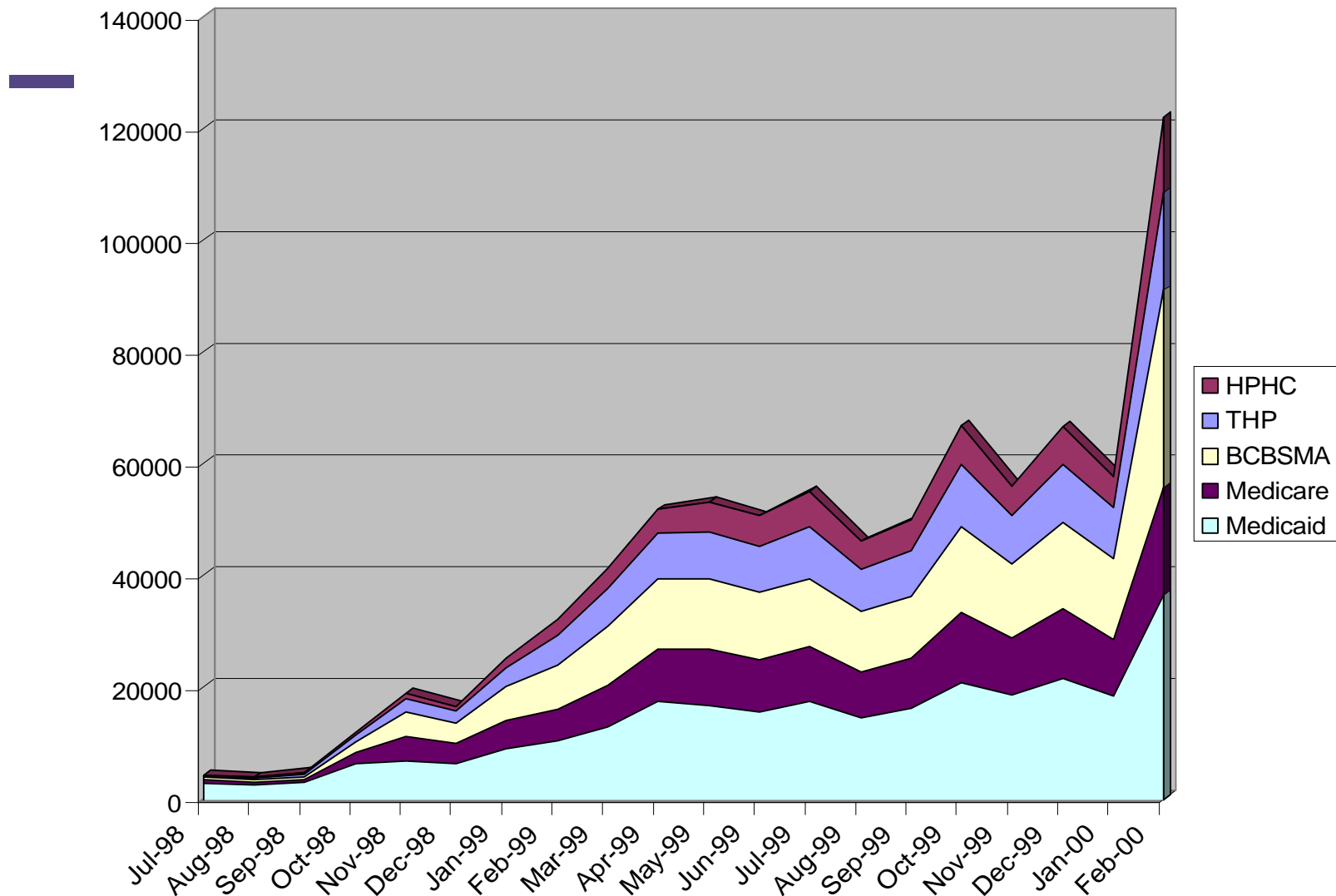


Security

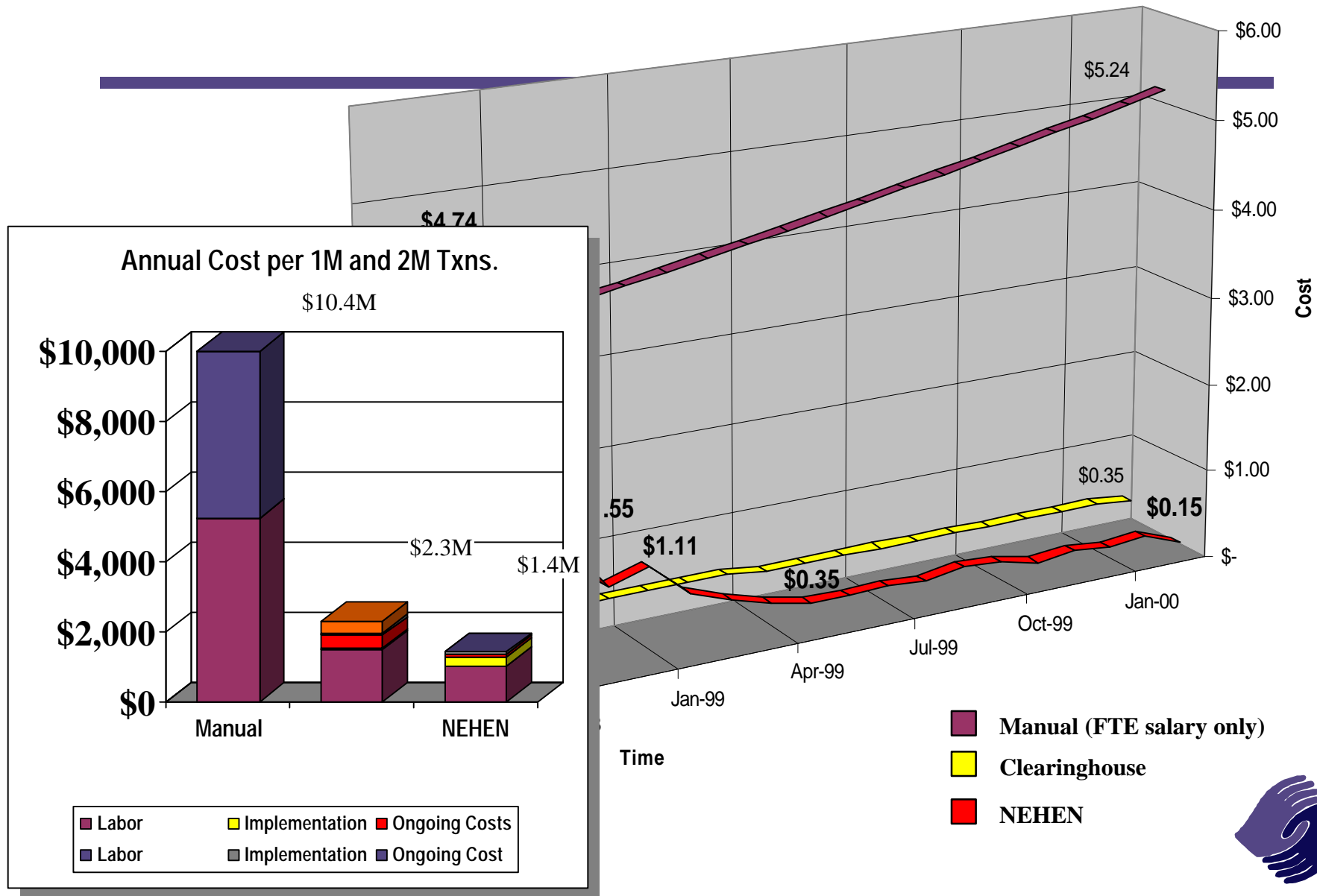
- Security and confidentiality protections must be extraordinary to safeguard patients and health plan members as well as the reputations of the participating organizations. NEHEN has adopted a strict security architecture in response:
 - No central database - all patient-identifiable data is transitory in nature
 - Use of private network rather than the Internet
 - Signed agreements among participants safeguarding other parties' data



Volume Statistics



Costs per Transaction



Eligibility ROI

Eligibility ROI	Year 1	Year 2	Year 3
Labor savings:	\$397,975	\$ 397,975	\$ 397,975
+ Improved collections:	\$88,010	\$88,010	\$88,010
Gross savings:	\$485,985	\$485,985	\$485,985
- NEHEN program mgmt. fees:	\$72,000	\$72,000	\$72,000
- Implementation costs (H/W, network, labor):	\$250,000	\$10,000	\$10,000
Net savings (cumulative): (+ incidence avoidance)	\$163,985	\$568,905	\$972,890
	ROI: 1.5X	2.4X	3X



Declaration of Interdependence



Signing Ceremony — NEHEN LLC — October 1999

CareGroup Implementation

- Benefits/Eligibility
 - Web
 - Hospital Information System
- Referral/Auth
 - STARS
- Patient Self Service
 - PatientSite



 [CareWeb](#) [Cyberprise](#) [Web Email](#) [COV EIS](#) [Lit Search](#) [Online Reports](#) [Find a DR](#) [STARS](#) [Eligibility](#)[Create Myportal](#)[Myportal Log In](#)

Username

Password

**CAREGROUP**
HEALTHCARE SYSTEM

Sunday, May 21, 2000

[Lookup Another Patient](#)

JOHN HALAMKA: Eligible

Service Date: 1/1/00

Patient Demographics

Name: HALAMKA, JOHN Member ID: HPCG02815-00

Sex: M Date Of Birth: 5/23/62

Address: 11 ALDEN RD
WELLESLEY HLS MA 02481-6702

Start Date 1/1/00 End Date 12/31/9999

Primary Care Provider Info

PCP Name: DUPEE,RICHARD PCP Plan ID: 2928

Address: 65 WALNUT STREET
WELLESLEY MA 02181

PCP Phone: (781) 235-9089

Benefits

Plan: HPHC Product:

Copay Info


Transaction time:2 Seconds

CareGroup Net - Microsoft Internet Explorer

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address C:\WINDOWS\DESKTOP\Prototype-981108\top.html Links

**PROVIDER SERVICE NETWORK**
Affiliated with CAREGROUP

ELIGIBILITY

[Inquiry](#)

AUTHORIZATIONS

[Quick Search](#)

[General Search](#)

[Request Referral](#)

[Request Admission](#)

[Request Service](#)

REPORTING

[Activity](#)

OTHER

[Provider Directory](#)

[Help](#)

[Logout](#)

Member ID:

Referring PCP:

Plan:

[SEARCH](#)

[CUSTOMIZE](#)

Provider Details

Member P:

Admission:

Admission:

Admission

Admission:

Type of Admission:

Admission Category:

Primary Admission Dx:

Reason for Admission:

Select to route this request to your CareGroup PSN Case Manager: ☐

Liability and Recovery:

[REQUEST ADMISSION](#)

ICD9 Search

Search for ICD9 codes about:

[CUSTOMIZE](#)

[CUSTOMIZE](#)

Telephone


Secondary Admission Dx:


[SEARCH](#)

CareGroup Net - Microsoft Internet Explorer

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[Inquiry](#)

AUTHORIZATIONS
[Quick Search](#)
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[Request Admission](#)
[Request Service](#)

REPORTING
[Activity](#)

OTHER
[Provider Directory](#)
[Help](#)
[Logout](#)

Out-Of-Network Requested?

This referral is to an out-of-network provider, which will trigger a review.
If you make use of a network provider, your referral will be auto-approved.

- Option 1: [Modify referral request](#)
- Option 2: Request out-of-network referral

Justification:

Comments:

Request Out-of-Network


Done My Computer

CareGroup Net - Microsoft Internet Explorer

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ELIGIBILITY
[Inquiry](#)

AUTHORIZATIONS
[Quick Search](#)
[General Search](#)
[Request Referral](#)
[Request Admission](#)
[Request Service](#)

REPORTING
[Activity](#)

OTHER
[Provider Directory](#)
[Help](#)
[Logout](#)

Temporary Tracking Number **A682432**

Patient Details

Member ID:	0277883612	Plan:	BCBSMA
Name:	Carter, John	Product:	HMO Blue
Referring PCP:	Taussig, Helen	PSN ID:	16351
Risk Unit:	BIDMC		

Provider Details

Refer To Provider:	Woo, John	PSN ID:	12786
Risk Unit:	BIDMC		

Referral Details

Start Date:	10-07-1998		
End Date:	12-31-1998		
Services Requested:	Consult only	Visits:	1
Reason for Referral:	Worsening symptoms over the past 5 days. Patient complaining of severe chest pain and shortness of breath.		

Diagnosis

Primary Diagnosis:	413.1	Description:	Prinzmetal Angina
Secondary Diagnosis:		Description:	

This referral is

Done

My Computer



Welcome to PatientSite



CareGroup HealthCare System implemented PatientSite to give patients the opportunity to communicate with their physicians through the Web. It is secure and free for all CareGroup patients. PatientSite should **NOT** be used for emergencies.

Please enter your Username and Password to login.

If you are not a registered patient of PatientSite, click on "Take a Tour" and see what it has to offer you, or go directly to registration by clicking on "Register Now"!

[**Take a Tour**](#)[**Register Now!**](#)[**Forgot Password?**](#)

Username:

Password:

MyHealth

 MyMail

 MyRecord

MyServices

 Search

 MyProfile

MyHealth



Privacy Policy



Help



Sign Out



CareGroup's Personal Health Web Site for
Ignacio Gende, a patient of Dr. John Halamka

You have 18 messages

Patient Education

[BIDMC Fact Sheets/Instructions](#)

[BIDMC HealthLinks](#)

[Care! TV Education Channel](#)

[CareNotes Health/Drug Information](#)

[External Health Web Sites](#)

[Learning Center Services](#)

[Pharmacy Locator](#)

[Seminars and Support Groups](#)




MyLinks

[BIDMC](#)

[general health information](#)

Self Service Benefits Check

MyHealth	MyMail	MyRecord	MyServices	Search	MyProfile
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MyServices	 Exit	 Help	 Sign Out
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[Check my insurance benefits](#)
[Patientsite survey for patients](#)
[Refill a prescription](#)
[Request a referral](#)
[Request/Confirm/Cancel an appointment](#)
[Review bills \(BIDMC\)](#)



[MyHealth](#)[MyMail](#)[MyRecord](#)[MyServices](#)[Search](#)[MyProfile](#)[Check Benefits/Elibility](#) [✕ Exit](#)[? Help](#)[✕ Sign Out](#)

IGNACIO GENDE: Eligible

Service Date: 9/16/00

Patient Demographics

Name:	GENDE, IGNACIO	Member ID:	HPCG01648-00
Sex:	M	Date Of Birth:	19651205
Address:	27 NUT RD AUBURN NH 03032		
Start Date	4/1/00	End Date	4/1/01

Primary Care Provider Info

PCP Name:	CAMPO,RAFAEL	PCP Plan ID:	65095BI 0010
Address:	330 BROOKLINE AVE BOSTON MA 02215		
PCP Phone:	6176672422		

Benefits


Plan:	HPHC	Product:	
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Copay Info

Professional (Physician) Visit - Office	\$5.0000/Visit
Hospital - Emergency Medical	\$40.0000/Visit
Generic Prescription Drug	\$10.0000/Visit
Brand Name Prescription Drug	\$0.0000/Visit

Transaction time:2 Seconds

Audit

 Exit[Return to List Choices](#) Help Sign Out

Date	Time	Person	Function	Location
9/5/00	5:31:00 PM	Gende, Ignacio	labs	10.150.60.126
9/5/00	5:31:03 PM	Gende, Ignacio	lab_detail	10.150.60.126
9/7/00	4:18:50 PM	Gende, Ignacio	/myhealth.asp	207.16.63.250
9/7/00	4:34:20 PM	Gende, Ignacio	/mailbox.asp	207.16.63.250
9/7/00	4:34:32 PM	Gende, Ignacio	/myrecord.asp	207.16.63.250
9/7/00	4:39:42 PM	Gende, Ignacio	/services.asp	207.16.63.250
9/7/00	4:43:13 PM	Gende, Ignacio	/search.asp	207.16.63.250
9/7/00	4:43:35 PM	Gende, Ignacio	/services.asp	207.16.63.250
9/9/00	10:09:15 AM	Halamka, John	/ccclabs.asp	10.150.60.126
9/9/00	10:09:15 AM	Halamka, John	labs	10.150.60.126
9/9/00	10:11:44 AM	Halamka, John	/ccclabs.asp	10.150.60.126
9/9/00	10:11:44 AM	Halamka, John	labs	10.150.60.126
9/9/00	10:17:30 AM	Halamka, John	/ccclabs.asp	10.150.60.126
9/9/00	10:17:30 AM	Halamka, John	labs	10.150.60.126
9/9/00	10:38:22 AM	Gende, Ignacio	/myhealth.asp	10.150.60.126
9/9/00	10:38:24 AM	Gende, Ignacio	/myrecord.asp	10.150.60.126
9/9/00	10:38:26 AM	Gende, Ignacio	/cccxrays.asp	10.150.60.126
9/9/00	10:38:26 AM	Gende, Ignacio	xrays	10.150.60.126
9/9/00	10:38:32 AM	Gende, Ignacio	/cccxrays.asp	10.150.60.126
9/9/00	10:38:32 AM	Gende, Ignacio	xrays	10.150.60.126
9/9/00	10:42:18 AM	Gende, Ignacio	/cccxrays.asp	10.150.60.126

Security/Confidentiality

- Best Practices – National Academy of Sciences “For the Record”
- Current and Future Recommendations
 - Strong Authentication
 - Role-based access control
 - Auditing
 - Encryption
- Implemented in all our systems



Education

- Formal training in confidentiality
- Volunteers are trained
- Web based training and record keeping
- Single program for all of CareGroup



Summary

- Administrative Simplification
 - Live today with 270/271, 278
 - December for 834/837
- Security/Confidentiality
 - Full auditing, strong authentication and access control in place
- Education
 - Ongoing effort

