

Non-Government Application for Re-Use of Massachusetts All-Payer Claims Data Extract [Exhibit A: Data Application]

I. INSTRUCTIONS

This form is required for all Applicants, except Government Agencies as defined in <u>957 CMR 5.02</u>, who wish to re-use Data received pursuant to a previously approved Data Application ("Extract"). If the applicant requires data not presently held by its Organization the applicant should not use this form. Re-use of All-Payer Claims Database data is limited to data released in Limited Data Set format (i.e., Release Versions 4.0 and later).

All attachments must be uploaded to IRBNet with your Application. All Application documents can be found on the <u>CHIA website</u> in Word and in PDF format or on <u>IRBNet</u> in Word format. If you submit a PDF document, please also include a Word version in order to facilitate edits that may be needed.

Applications will not be reviewed until the Application and all supporting documents are complete and the required application fee is submitted. A Fee Remittance Form with instructions for submitting the application fee is available on the CHIA website and IRBNet. A copy of the Fee Remittance Form and any supporting documentation must be uploaded to IRBNet.

II. ALL-PAYER CLAIMS DATABASE EXTRACT TO BE RE-USED		
Project Title:	Will the Academic Innovations Collaborative Increase the Value of Primary Care	
	and Improve Proviers' and Trainees' Experiences?	
Extract Number:		
IRBNet Number:	758957-1	
Date of Data Use Agreement	November 30, 2015	

III. ORGANIZATION AND INVESTIGATO	R INFORMATION
Project Title:	The impact of Massachusetts Cost control legislation on prices and competition
IRBNet Number:	1304066-1
Organization Name:	Harvard T.H. Chan School of Public Health
Organization Website:	Hsph.harvard.edu
Authorized Signatory for Organization	Wendy Chan
Title:	Associate Director, Sponsored Programs Administration
E-mail Address:	wchan@hsph.harvard.edu
Address, City/Town, State, Zip Code	Landmark Center, 401 Park Drive, 3 rd Floor East, Boston, MA 02215
Primary Investigator:	Meredith Rosenthal
Title:	C. Boyden Gray Professor of Health Economics and Policy
E-mail Address:	mrosenth@hsph.harvard.edu
Telephone Number:	617-432-3418
Names of Co-Investigators:	Anna D. Sinaiko
E-mail Address of Co-Investigators:	asinaiko@hsph.harvard.edu

IV. FEE IN	IFORMATION		
1. Consul	t the <u>Fee Schedule</u> for	r All-Payer Claims Database data and se	lect from the following options:
☑ Resear☑ Other☑ Reselle			
2. Are you	u requesting a fee wa	iver?	
□ Yes ⊠ No			
request (i	if required). Please re	efer to the <u>Fee Schedule</u> (effective Feb 1	waiver, submit a letter stating the basis for your , 2017) for fee waiver criteria. (Please note that data is required upon application approval.)
V. PROJE	CT INFORMATION		
1. What v	will be the use of the (CHIA Data requested? [Check all that ap	pply]
□ Longit□ Refere□ Survei		 ☐ Health planning/resource allocatio ☐ Quality of care assessment ☑ Research studies ☐ Student research ☐ Other (describe in box below) 	n ⊠ Cost trends □ Rate setting □ Severity index tool □ Utilization review of resources
	e a summary of the sp use Projects.	pecific purpose and objectives of your P	roject. This may include research questions and/or
1. 2. 3. 4.	and patient flows (inc Evaluate the impact on To describe recent ch Examine the interacti	cluding market shares). of increasing adoption of tiered and narion and state of the control of	row network plans on prices and market shares. or consolidation in Massachusetts over time. th vertical and horizontal) and efforts to steer sparency and tiered/narrow network plans).

3. Has an Institutional Review Board (IRB) reviewed your Project?

Exhibit A: CHIA Non-Government APCD Data	January 2017 v.1.0
\square Yes [If yes, a copy of the approval letter and protocol <u>must</u> be inc \boxtimes No, this Project is not human subject research and does not requ	
4. <u>Research Methodology</u> : Applicants must provide either the IRB methodology (typically 1-2 pages), which should state the Project o This document must be included with the Application package on IR CHIA to understand how the Data will be used to meet objectives or	bjectives and/or identify relevant research questions. RBNet and must provide sufficient detail to allow
VI. PUBLIC INTEREST	
1. Briefly explain why completing your Project is in the public intereregulation include, but are not limited to: health cost and utilization promote improvement in population health, health care quality or a improvement of Massachusetts state government initiatives.	analysis to formulate public policy; studies that
This project will provide evidence on the impact of market-based palign patient and physician incentives with regard to prices in Mas understanding of how provider consolidation is affected by prices and other steering mechanisms (i.e. tiered and narrow networks) goal is to use this information to inform the design and targeting of the value of health care choices.	sachusetts. Moreover, it will contribute to our in Massachusetts and whether price transparency counteract the effects of consolidation. The end
VIII DATASETS DEQUESTED	
VII. DATASETS REQUESTED	
The Recipient will use Data included in the Extract referenced above under this Application.	e for use in this Project; no new Data will be released
1. Specify below the dataset(s) and year(s) of data requested for the requesting <u>each</u> dataset.	is Project, and provide your justification for
⊠ Medical Claims ⊠ 2011 № 2012 № 2013 № 2014 № 2015	
Describer how your research objectives require Medical Claims data: The Medical Claims data will be used to examine the impact of the	Massachusetts Cost Control Logislation and related
The Medical Claims data will be used to examine the impact of the trends in benefit design (tiered and narrow networks) on health car health care competition in Massachusetts. We need the best estimated because these data are critical to analyzing the price and cost implication us to measure utilization and patient volume across providers legislation changed patient flows, provider market share, or practice	re prices, patient flows, and other measures of ate of the total amount paid to conduct this analysis cations of these policies. Medical claims data also s, which we will use to analyze whether the

Exhibit A: CHIA Non-Government Application to Re-Use APCD Data	January 2017 v.1.0
☐ Pharmacy Claims	
□2011 □2012 □2013 □2014 □2015	
Describer how your research objectives require Pharmacy Claims data:	
☐ Dental Claims	
□2011 □2012 □2013 □2014 □2015	
Describer how your research objectives require Dental Claims data:	
☐ Member Eligibility	
□2011 □2012 □2013 □2014 □2015	
Describer how your research objectives require Member Eligibility data:	
☐ Provider ☐ 2011 ☐ 2012 ☐ 2013 ☐ 2014 ☐ 2015	
Describer how your research objectives require Provider data:	
☐ Product	
□2011 □2012 □2013 □2014 □2015	
Describer how your research objectives require Product data:	

2. If there are datasets that are included in the Extract that <u>are not</u> required for this Project indicate below.			
☐ Medical Claims☐ Pharmacy☐ Product	Claims Dental	Claims	☐ Member Eligibility
3. If there are datasets included in the Extract that are not required for this Project, describe below how those datasets will be segregated and protected from use in this Project.			
The Extract includes Medicaid datasets. Medicaid Data is currently in the final stages of its original use. When and if the publication, for which the Medicaid Data is being utilized for, gets accepted into an academic journal, the Medicaid Data will be systematically destroyed from the server.			
VIII. DATA ELEMENTS REQUESTED			
State and federal privacy laws limit the specific Project objective.	e release and use of [Data to the mi	inimum amount of data needed to accomplish a
All-Payer Claims Database data is released in Limited Data Sets (LDS). Applicants receive the "Core" LDS, but may also request additional elements listed below for inclusion in their analyses. Requests for additional elements will be reviewed by CHIA to determine whether each represents the minimum data necessary to complete the specific Project objective.			
1. Specify below which elements you are requesting in addition to the "Core" LDS and provide your justification for requesting <u>each</u> element.			
Geographic Data			
The geographic sub-divisions listed below are available for Massachusetts residents and providers only. Choose <u>one</u> of the following geographic options. [Extracts with 5 digit zip code, have been filter to remove all claims that include a substance abuse diagnosis or treatment.]			
☑ 3-Digit Zip Code (standard)		☐ 5-Digit Zi	p Code***
***If requested, provide justification for requesting 5-Digit Zip Code. Refer to specifics in your methodology:			
Dates Choose <u>one</u> option from the following options for dates:			
☐ Year (YYYY) (Standard)	☐ Month (YYYYM	IM) ***	☐ Day (YYYYMMDD) *** [for selected data elements only]
*** If requested, provide justification fo	r requesting Month or I	Day. Refer to s	

Exhibit A: CHIA Non-Government APCD Data

January 2017 v.1.0

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Some quality measures, like overuse, cannot be measured graularly enough at the monthly level and we instead need to be able to know the date of service in order to conduct appropriate time series analyses.
National Provider Identifier (NPI) Choose <u>one</u> of the following options for National Provider Identifier(s):
☐ Encrypted National Provider Identifier(s) (standard) ☐ Decrypted National Provider Identifier(s)***
*** If requested, provide justification for requesting decrypted National Provider Identifier(s). Refer to specifics in your methodology: To analyze the effects of tiered networks and price transparency in MA we will need to identify physician within the larger organizations with which they are affiliated.
2. If there are data elements that are included in the Extract that <u>are not</u> required for this Project indicate below.
□ S-Digit Zip Code □ Month (YYYYMM) □ Day (YYYYMMDD) □ Decrypted National Provider Identifier(s)
3. If there are data elements included in the Extract that are not required for this Project, describe below how the data elements will be segregated and protected from use in this Project.
For this project we only need 3 digit zip codes and we will collapse 5 digits to 3 digits, deleting all 5 digit zip codes.
IV MEDICAID DATA
IX. MEDICAID DATA
1. Is Medicaid Data included in the Extract?
2. Indicate whether you are seeking to use Medicaid Data for this Project:
□ Yes ⊠ No

3. Federal law (42 USC 1396a(a)7) restricts the use of individually identifiable data of Medicaid recipients to uses that are directly connected to the administration of the Medicaid program. If you are requesting Medicaid Data, please describe, in the space below, why your use of the data meets this requirement. Requests for Medicaid data will be forwarded to MassHealth for a determination as to whether the proposed use of the data is directly connected to the administration of the Medicaid program. This may introduce significant delays in the receipt of Medicaid Data. *Recipient may not use the Medicaid data for the new Project until Recipient is notified of MassHealth approval.*

Page **6** of **13**

Exhibit A: CHIA Non-Government APCD Data	January 2017 v.1.0
4. If the Extract contains Medicaid Data and you are not seeking is not approved by MassHealth, describe below how Medicaid Project.	-
Medicaid Data is currently in the final stages of its original use. is being utilized for, gets accepted into an academic journal, the server.	·
X. DATA LINKAGE AND FURTHER DATA ABSTRACTION	
Data linkage involves combining CHIA Data with other data to a linkage is typically used to link multiple events or characteristics CHIA Data.	· · · · · · · · · · · · · · · · · · ·
 Do you intend to link or merge CHIA Data to other data? Yes 	
\square No linkage or merger with any other data will occur	
2. If yes, please indicate below the types of data to which CHIA	Data will be linked. [Check all that apply]
\square Individual Patient Level Data (e.g., disease registries	, death data)
\square Individual Provider Level Data (e.g., American Medic	cal Association Physician Masterfile)
☐ Individual Facility Level Data (e.g., American Hospita	al Association data)
☐ Aggregate Data (e.g., Census data)	
☑ Other (please describe): We will link claims to the M describe health systems – including changes in scope (horizonta and patient movement between systems.	
3. If yes, describe the dataset(s) to which the CHIA Data will be	linked, indicate which CHIA data elements will be linked
and the purpose for each linkage.	
We will link claims to the MHQP Massachusetts Provider Data	base so we can describe health systems – including
changes in scope (horizontal consolidation) and structure (ver systems.	·

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4. If yes, for each proposed linkage above, please describe your method or probabilistic) for linking each dataset. If you intend to develop a unique alg dataset.	
Deterministic (match based on NPI).	
5. If yes, please identify the specific steps you will take to prevent the ident dataset.	ification of individual patients in the linked
	s in patient flows across health systems and ure server and our output will be in the form e the granularity of the data – it will result in is move away from identification. That is,

1. Describe your plans to publish or otherwise disclose CHIA Data, or any data derived or extracted from CHIA Data, in any paper, report, website, statistical tabulation, seminar, conference, or other setting. Any and all publication of CHIA Data must comply with CHIA's cell size suppression policy, as set forth in the Data Use Agreement. Please explain how you will ensure that any publications will not disclose a cell less than 11, and percentages or other mathematical formulas that will result in the display of a cell less than 11.

We intend to publish aggregate findings from our analyses, which will include data on changes in price variation over time. We will not disclose any patient-level data. Our output will not include descriptive analysis of small cells of any kind – we are focused on large health systems and markets (geographic areas such as Health Service Areas). Cell sizes will be in the thousands or hundreds of thousands. Moreover, the focus of the work is on the change in market share across providers and average amounts paid to those providers – these will be captured by regression coefficients.

2. Do you anticipate that the results of your analysis will be published and/or made publically available? If yes, describe how an interested party will obtain your analysis and, if applicable, the amount of the fee, that the third party must pay.

Our results will be published in the peer-reviewed literature. Abstracts of these papers will be publicly available and complete manuscripts will be available based on the journals usual policies (through individual and institutional

subscription; some are made free on-line after a period of time). Reprints will be available for free from the authors upon request.
3. Will you use CHIA Data for consulting purposes?☐ Yes☒ No
4. Will you be selling standard report products using CHIA Data?☐ Yes☒ No
5. Will you be selling a software product using CHIA Data? ☐ Yes ☑ No
6. Will you be reselling CHIA Data in any format? ☐ Yes ☑ No
If yes, in what format will you be reselling CHIA Data (e.g., as a standalone product, incorporated with a software product, by a subscription, etc.)?
7. If you have answered "yes" to questions 4, 5 or 6, please describe the types of products, services or studies.
8. If you have answered "yes" to questions 4, 5, or 6, what is the fee you will charge for such products, services or studies?

XII. APPLICANT QUALIFICATIONS

1. Describe your previous experience using claims data. This question should be answered by the primary investigator and any co-investigators who will be using the Data.

Dr. Rosenthal has overseen the analysis of MA APCD data for the purposes of evaluating a primary care redesign intervention in Massachusetts. That analysis also linked the APCD to the MHQP MPD. The proposed project will evaluate the impact of Massachusetts' Cost Control legislation and their interaction on health care prices, patient flows, and other measures of health care competition. Drs Rosenthal and Sinaiko have experience conducting related research on the design and impact of health policy reforms that seek to alter patient and provider behavior, including

	alth plans, high-deductible health plans and price transparency initiatives. ing large, medical claims data across multiple health plans and conducting vill be conducted in this study.
·	prior approved Application, when submitting your Application package on e of the principal investigator and co-investigators. (These attachments will not
XIII. USE OF AGENTS AND/OR CONTRACT	FORS
maintenance of the CHIA Data by its age	the Organization assumes all responsibility for the use, security and nts, including but not limited to contractors. agents and contractors who will have access to the CHIA Data. [Add agents or
AGENT/CONTRACTOR #1 INFORMATION	
Company Name:	
Company Website:	
Contact Person:	
Title:	
E-mail Address:	
Address, City/Town, State, Zip Code:	
Telephone Number:	
Term of Contract:	
Describe the tasks and products assign completing the tasks.	ed to the agent or contractor for this Project and their qualifications for
	and monitoring of the activities and actions of the agent or contractor for this vill ensure the security of the CHIA Data to which the agent or contractor has

Exhibit A: CHIA Non-Government APCD [Data	January 2017 v.1.0
3. Will the agent or contractor have acces	ss to or store the CHIA D	ata at a location other than the Organization's location,
off-site server and/or database?		-
☐ Yes		
□ No		
4. If ves and a Data Management Plan for	r this agent or contractor	is not part of the Data Use Agreement, a separate
Data Management Plan must be complet	_	
Data Management I an <u>intere</u> de complet	ed by the agent of contr	40.011
AGENT/CONTRACTOR #2		
INFORMATION		
Company Name:		
Company Website:		
Contact Person:		
Title:		
E-mail Address:		
	_	
Address, City/Town, State, Zip Code:		
Telephone Number:		
Term of Contract:		
1. Deceribe the techs and anadysts assistant		actor for this Ducient and their gualifications for
	led to the agent of contri	actor for this Project and their qualifications for
completing the tasks.		
2. Describe the Oscart effects as estable		at the condensation of the condensation of the condensation
	_	ctivities and actions of the agent or contractor for this
	will ensure the security o	f the CHIA Data to which the agent or contractor has
access.		

3. Will the agent or contractor have access to or store the CHIA Data at a location other than the Applicant's location
off-site server and/or database?
☐ Yes
\square No

4. If yes and a Data Management Plan for this agent or contractor is not part of the Data Use Agreement, a separate Data Management Plan **must** be completed by the agent or contractor.

XIV. ATTESTATION

By submitting this Application, the Organization attests that it is aware of its data use, privacy and security obligations imposed by state and federal law *and* confirms that it is compliant with such use, privacy and security standards. The Organization further agrees and understands that it is solely responsible for any breaches or unauthorized access, disclosure or use of CHIA Data, including, but not limited to, any breach or unauthorized access, disclosure or use by its agents.

The Organization's use of the Data for this Project will be governed by the executed Data Management Plan(s), Data Use Agreement, and any Amendment thereto.

By my signature below, I attest: (1) to the accuracy of the information provided herein; (2) that the requested Data is the minimum necessary to accomplish the purposes described herein; (3) that the Organization will meet the data privacy and security requirements described in this Application and supporting documents, and will ensure that any third party with access to the Data meets the data use, privacy and security requirements; and (4) to my authority to bind the Organization.

Signature:	
(Authorized Signatory for Organization)	
Printed Name :	

Attachments

A completed Application must have the following documents attached to the Application:

- ☐ 1. IRB approval letter and protocol (if applicable)
- ☑ 2. Research Methodology (if protocol is not attached)
- ☑ 3. CVs of Investigators (if not submitted previously)

Applications will not be reviewed until they are complete, including all attachments. Applicant may not use the Extract for this Project until CHIA approval and the execution of an amendment to the Recipient's Data Use Agreement.

TRACKING TABLE (to be completed by CHIA staff only)		
Complete Application Received		
Application Fee Received		
Data Privacy Committee Review		
Data Release Committee Review		
Linkages Approved (as described)		
Executive Director Approval		
Data Fee Received		
Data of First Audit		
IT Extract #		