

Non-Government Application for Massachusetts All-Payer Claims Data [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>. All Applicants must also complete the <u>Data Management Plan</u>, attached to this Application. The Application and the Data Management Plan must be signed by an authorized signatory of the Organization. This Application and the Data Management Plan will be used by CHIA to determine whether the request meets the criteria for data release, pursuant to 957 CMR 5.00. Please complete the Application documents fully and accurately. Prior to receiving CHIA Data, the Organization must execute CHIA's <u>Data Use Agreement</u>. Applicants may wish to review that document prior to submitting this Application.

Before completing this Application, please review the data request information on CHIA's website:

- Data Availability
- Fee Schedule
- Data Request Process

After reviewing the information on the website and this Application, please contact CHIA at apcd.data@state.ma.us if you have additional questions about how to complete this form.

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. If you are requesting a fee waiver, a copy of the Fee Remittance Form and any supporting documentation must be uploaded to IRBNet.

II. ORGANIZATION AND INVESTIGATOR INFORMATION	
Project Title:	Regulation and Competition in Dialysis Industry
IRBNet Number:	1150588-1
Organization Requesting Data:	University of Wisconsin-Madison, PI: Alan Sorensen
Organization Website:	http://www.ssc.wisc.edu/~sorensen/
Authorized Signatory for Organization:	Robert Gratzl
Title:	Interim Assistant Director of Contracts
E-mail Address:	robert.gratzl@rsp.wisc.edu
Address, City/Town, State, Zip Code:	21 N. Park Street, Suite 6401 Madison, WI 53715
Primary Investigator:	Alan Sorensen
Title:	Professor of Economics
E-mail Address:	sorensen@ssc.wisc.edu
Telephone Number:	608-263-3867
Names of Co-Investigators:	Yun Ling
E-mail Addresses of Co-Investigators:	Yling6@wisc.edu

III. FEE INFORMATION		
1. Consult the <u>Fee Schedule</u> for	All-Payer Claims Database data and sele	ct one of the following options:
☑ Researcher☐ Other		
Reseller		
2. Are you requesting a fee wa	iver?	
-	e Remittance Form. If requesting a fee w fer to the F <u>ee Schedule</u> (effective Feb 1, 2	vaiver, submit a letter stating the basis for your 2017) for fee waiver criteria.
IV. PROJECT INFORMATION		
1. What will be the use of the C	CHIA Data requested? [Check all that app	ıly]
☐ Epidemiological	☐ Health planning/resource allocation	⊠Cost trends
☐ Longitudinal Research	☑ Quality of care assessment	☑ Rate setting
\square Reference tool	□ Research studies	☐ Severity index tool
☐ Surveillance	Student research ■ Student research ■	□ Utilization review of resources
\square Inclusion in a product	○ Other (describe in box below)	
2. Provide a summary of the sp business use Projects.	ecific purpose and objectives of your Pro	ject. This may include research questions and/o
-		noices in relationship to competition nearby, as to answer the following questions: (1) is the
	· · ·	increase the patients' welfare in this market?
	plore include an entry subsidy to incude	dialysis firms' entry, and different Medicare
reimbursement schemes.		
3. Has an Institutional Review B	Board (IRB) reviewed your Project?	
	roval letter and protocol <u>must</u> be include n subject research and does not require I	d with the Application package on IRBNet.] RB review.

4. <u>Research Methodology</u>: Applicants must provide either the IRB protocol or a written description of the Project methodology (typically 1-2 pages), which should state the Project objectives and/or identify relevant research questions.

This document must be included with the Application package on IRBNet and must provide sufficient detail to allow CHIA to understand how the Data will be used to meet objectives or address research questions.

V. PUBLIC INTEREST

1. Briefly explain why completing your Project is in the public interest. Uses that serve the public interest under CHIA regulations include, but are not limited to: health cost and utilization analysis to formulate public policy; studies that promote improvement in population health, health care quality or access; and health planning tied to evaluation or improvement of Massachusetts state government initiatives.

My research aims to find out if there are feasible ways to increase producer surplus and consumer surplus in the highly regulated market for dialysis treatments. I believe my results will meaningfully contribute to ongoing debate about whether or not Medicare should change reimbursement rates to dialysis providers. In addition, results from my simulations will help policymakers make informed decisisons, as incidence rate of End Stage Renal Disease continues to increase.

VI. DATASETS REQUESTED

1. Specify below the dataset(s) and year(s) of data requested for this Project, and provide your justification for requesting *each* dataset.

⋈ Medical Claims

⊠2011 ⊠2012 ⊠2013 ⊠2014 ⊠2015

Medical Claims data will allow me to understand the real prices patients face, which is one of the key factors in patients' decisions on where to receive treatment. With Medical Claims data, I will be able to understand patients' willingness to pay for quality.

☒ Pharmacy Claims

⊠2011 ⊠2012 ⊠2013 ⊠2014 ⊠2015

Pharmacy Claims data, combined with Medical Claims data will allow me to estimate the *total* costs of treating dialysis and dialysis-related diseases.

□ Dental Claims

 \square 2011 \square 2012 \square 2013 \square 2014 \square 2015

N/A

⋈ Member Eligibility

⊠2011 ⊠2012 ⊠2013 ⊠2014 ⊠2015

I need the Member Eligibility file to understand why they make different provider choices. This data also allows me to extrapolate the demand estimates (such as price sensitivity) obtained from MA patients to a nationally representative sample.

⊠ Provider

⊠2011 ⊠2012 ⊠2013 ⊠2014 ⊠2015

I need the decrypted Provider file because I need to link the providers chosen by patients to facility-level quality measures published by CMS. This allows me to understand how patients value prices paid, quality of care, and distance travelled to providers.

⊠ Product

⊠2011 ⊠2012 ⊠2013 ⊠2014 ⊠2015

I need the product file to be able to link the claims to insurance plans. For instance, I need to infer how much a plan pays in reimbursement terms to dialysis providers, and how the payments depend on plan coverage.

2. All-Payer Claims Database data are refreshed and updated periodically and made available in Release Versions that contain the most recent five calendar years of data. As certain Project objectives may require future years of data not yet available, CHIA will consider requests for additional Release Versions of the <u>same data (i.e., same elements and files)</u> without the need to submit a new application. Please note that approved requests will be subject to applicable terms in the Data Use Agreement and fees for additional data. Please indicate below whether this is a one-time request, or if the described Project will require future Release Versions of data and if so, which Versions

oxtimes One-Time $$ OR $$ $$ $$ 2016 $$ $$ 2017 $$ $$ 2018 $$ $$ 2019 $$ $$ 20
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VII. DATA ELEMENTS REQUESTED

State and federal privacy laws limit the release and use of Data to the minimum amount of data needed to accomplish a specific Project objective.

All-Payer Claims Database data is released in Limited Data Sets (LDS). All 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.

For a full list of elements in the release (i.e., the core elements and additional elements), please refer to <u>release layouts</u>, <u>data dictionaries</u> and similar documentation included on CHIA's website.

1. Specify below which elements you are requesting in addition to the "Core" LDS, provide your justification for requesting each 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.

☐ 3-Digit Zip Code (standard) ☐ 5-Digit Zip Code***

When patients make decisions about where to receive dialysis treatment, distance is one of the most important factors, because they need to visit dialysis facilities 3 times a week. In order to correctly capture the tradeoffs between distance travelled, prices paid, and quality of care, I need to have the 5-digit zipcode of patients' residence.

3-digit zipcode map into areas too geographically broad, and may result in incorrect estimation of patient's demand.

Dates

Choose <u>one</u> option from the following options for dates.

☐ Year (YYYY) (Standard)	☐ Month (YYYYMM) ***	☐ Day (YYYYMMDD) ***	
		[for selected data elements only]	
	process. If the patients visited clinic A first, a	nd then moved to clinic B, with dates of	
services data, I am able to make valuable in	ference about patient's preferences.		
Also, for the purpose of estimating how par	tients benefit from higher quality, it's necessa	ary to see if a patient visists a dialysis	
facility, and immediately after visits an eme	ergency department or be admitted to hospit	al.	
National Dravider Identifier (NDI)			
National Provider Identifier (NPI) Choose <i>one</i> of the following options for	National Provider Identifier(s):		
choose <u>one</u> of the following options for	rvational i rovider identifier(s).		
☐ Encrypted National Provider Identifie	er(s) (standard) 🗵 Decrypted Natio	onal Provider Identifier(s)***	
	ilize the cost reports and Dialysis Facility Repo		
-	s (CMS), and have measures of each facilities'		
obtain quality measures from the said datas	entifier, I can correctly estimate patients' willisets from CMS.	ingliess to pay for quality, because i can	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
VIII. MEDICAID DATA			
1. Please indicate whether you are seek	ing Medicaid Data:		
1. Flease maleute whether you are seek	ing Medicala Bata.		
☐ Yes			
⊠ No			
	cts the use of individually identifiable dat	·	
	ation of the Medicaid program. If you are		
	use of the Data meets this requirement.	·	
	nation as to whether the proposed use of		
administration of the Medicaid program. CHIA cannot release Medicaid Data without approval from MassHealth. This may introduce significant delays in the receipt of Medicaid Data.			
may introduce significant delays in the receipt of Medicaid Data.			
N/A			
IX. DATA LINKAGE			
IN DATA LINKAGE			
Data linkage involves combining CHIA D	ata with other data to create a more exte	ensive database for analysis. Data	
linkage is typically used to link multiple events or characteristics within one database that refer to a single person within			
CHIA Data.			
1. Do you intend to link or merge CHIA I	Data to other data?		
✓ Yes			
\square No linkage or merger with any other data will occur			
0 0 ,			
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)			

Exhibit A: CHIA Non-Government All-Payer Claims Data Application

January 2017 v.1.0

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 ☐ Individual Provider Level Data (e.g., Amero ☑ Individual Facility Level Data (e.g., Americ ☑ Aggregate Data (e.g., Census data) ☐ Other (please describe): 		
3. If yes, describe the dataset(s) to which the CHIA D and the purpose for each linkage.	ata will be linked, indic	ate which CHIA Data elements will be linked
Provider file will be linked to Cost Reports and Dialys available by CMS.	sis Facility Compare, an	d Dialysis Facility Reports, made freely
Cost Reports: Cost Reports are annual reports filed by information such as chain affiliation, number of made employed, number of patients treated, number of trecompensation to medical directors, total expenses of from Medicare, and total revenues from all patients utilizations in dialysis facilities, and help me assess the	chines, number of nurse reatment sessions proven on drugs, total expenses . These data elements v	es employed, number of physicians ided, total salaries paid to staff, s on capital maintenance, total payments will provide information about the resource
Dialysis Facility Compare: I obtain the the hours of sl Compare, and then obtain the travel distance in mile zipcodes and clinics' addresses. Google Maps API pro circle distance calculations.	es and travel time in mi	nutes from Google Maps API, using patients
Dialysis Facility Reports: I obtain the quality measure from Dialysis Facility Reports, and use those quality received.		
4. If yes, for each proposed linkage above, please deprobabilistic) for linking each dataset. If you intend to dataset.	•	, ,
I plan to link providers to Cost Reports and Dialysis F by CMS. The basis of this linkage is the unique Natio		ialysis Facility Reports, made freely available
5. If yes, please identify the specific steps you will tal dataset.	ke to prevent the ident	ification of individual patients in the linked
I will not reveal data elements, unless they are aggre	gated up to >=12 pation	ents.

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 in the display of a cell less than 11.
I plan to submit the paper as the main chapter of my doctoral dissertation, and also to peer-reviewed academic journals for publication.
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.
Yes, I anticipate making the results of my analysis publicly available next year (Fall 2018). Only aggregated statistics (with greater than 12 observations) such as means and regresison estimates will be displayed in my results. There will be links to my paper on the internet through UW-Madison Economics Department's website (https://econ.wisc.edu/).
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.)?
N/A
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?

N/A

N/A

XI. 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.

Alan Sorensen, PI of the project is John and Tashia Morgridge Chair Professor of Economics at University of Wisconsin-Madison. He was the Editor of Journal of Industrial Economics in 2011-2015, and an associate editor of American Economic Journal: Applied Economics. He has published extensitively in top journals of Economics, such as American Economic Review, Review of Economic Studies, Journal of Political Economy, RAND Journal of Economics, Makreting Science, American Economic Journal: Microeconomics, Journal of Health Economics, Journal of Industrial Economics.

Yun Ling, CO-PI of the project is a 5-th year student at Economics Department of University of Wisconsin-Madison. She has been working on a project utilizing Medicare 5% Claims database, and will present findings from this research at American Public Health Association 2017.

2. <u>Resumes/CVs</u>: When submitting your Application package on IRBNet, include résumés or curricula vitae of the principal investigator and co-investigators. (These attachments will not be posted on the internet.) XII. USE OF AGENTS AND/OR CONTRACTORS

By signing this Application, the Agency assumes all responsibility for the use, security and maintenance of the CHIA Data by its agents, including but not limited to contractors. The Agecny must have a written agreement with the agent of contractor limiting the use of CHIA Data to the use approved under this Application as well as the privacy and security standards set forth in the Data Use Agreement. CHIA Data may not be shared with any third party without prior written consent from CHIA, or an amendement to this Application. CHIA may audit any entity with access to CHIA Data.

Provide the following information for <u>all</u> agents and contractors who will have access to the CHIA Data. [Add agents or contractors as needed.]

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:	

1. Describe the tasks and products assigned to the agent or contractor for this Project and their qualifications for completing the tasks.

Exhibit A: CHIA Non-Government All-Pay	er Claims Data Application	January 2017 v.1.0
	_	and actions of the agent or contractor for this IA Data to which the agent or contractor has
3. Will the agent or contractor have acce	ess to or store the CHIA Data at a	location other than the Organization's location,
off-site server and/or database?		
☐ Yes		
□ No		
4. If yes, a separate Data Management P	lan <u>must</u> be completed by the ag	ent or contractor.
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. Describe the tasks and products assign completing the tasks.	ned to the agent or contractor for	this Project and their qualifications for

Exhibit A: CHIA Non-Government All-Payer Claims Data Application January 2017 v.1.0
2. Describe the Organization's oversight and monitoring of the activities and actions of the agent or contractor for this Project, including how the Organization will ensure the security of 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 Organization's location off-site server and/or database? ☐ Yes ☐ No
4. If yes, a separate Data Management Plan <u>must</u> be completed by the agent or contractor.
XIII. 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 <i>and</i> 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 any third party to which it grants access.
Applicants approved to receive CHIA Data will be provided with Data following the payment of applicable fees and upon the execution of a Data Use Agreement requiring the Organization to adhere to processes and procedures designed to prevent unauthorized access, disclosure or use of data.
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)

Robert Gratzl, Managing Officer, RSP

Attachments

Printed Name:

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
- △ 4. Data Management Plan (including one for each agent or contractor that will have access to or store the CHIA Data at a location other than the Organization's location, off-site server and/or database)

Applications will not be reviewed until they are complete, including all attachments.

TRACKING T	ABLE (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)	
Approved for additional Release Versions	
Executive Director Approval	
Data Fee Received	
Date of First Audit	
Extract Number:	

Attachment #1 - IRB Approval Letter & Protocol or Research Methodology

Attachment #2 - Data Management Plan(s)

Attachment #3 - CV(s)