# Commonwealth of Massachusetts Center for Health Information & Analysis (CHIA) Non-Governmental Application for Case Mix Data

This form is to be used by all applicants, except Government Agencies, as defined in 957 CMR 5.02.

<u>NOTE</u>: In order for your application to be processed, you must submit the required application fee. Please consult the fee schedule for the appropriate fee amount. A remittance form with instructions for submitting the application fee is available on the CHIA website.

#### I. GENERAL INFORMATION

APPLICANT INFORMATION	
Applicant Name:	James Strunk
Title:	VP Product Development, Data and Innovation
Organization:	iVantage Health Analytics
Project Title:	INVISION data support
Mailing Address:	509 Forest Avenue, Suite 250, Portland, ME 04101
Telephone Number:	207.245.6751
Email Address:	jstrunk@ivantagehealth.com
Names of Co-Investigators:	Sharon White, Sarah Wilson
Email Addresses of Co-Investigators:	swhite@ivantagehealth.com, swilson@Ivantagehealth.com
Original Data Request Submission Date:	July 8, 2015
Dates Data Request Revised:	
Project Objectives (240 character limit)	Use the data to provide clients with hospital analytics derived
	from the data.
Project Research Questions (if applicable)	1.
	2.
	3.
	<b>5</b> .

#### **II. PROJECT SUMMARY**

Briefly describe the purpose of your project and how you will use the requested CHIA data to accomplish your purpose.

iVantage Health Analytics collects and uses publicly available data sets to assist hospitals and health agencies in their strategic planning, operational improvement, quality and marketing initiatives. Databases from CHIA purchased as part of this application are the basis for the reporting and analysis done for the hospitals in the state of Massachusetts.

## **III. FILES REQUESTED**

Please indicate the databases from which you seek data, and the Level(s) and year(s) of data requested.

CASE MIX	Levels 1 – 6	Fiscal Years Requested
Inpatient Discharge  Outpatient Observation	□ Level 1 - No Identifiable Data Elements  □ Level 2 - Unique Physician Number (UPN) □ Level 3 - Unique Health Information Number (UHIN) □ Level 4 - UHIN and UPN □ Level 5 - Date(s) of Admission; Discharge; Significant Procedures □ Level 6 - Date of Birth; Medical Record Number; Billing Number  PLEASE PROVIDE JUSTIFICATION BELOW FOR REQUESTING THE  CHOSEN LEVEL:  Full 5 digit zip codes are needed to enable determination of market share and to enable mapping of data. □ Level 1 - No Identifiable Data Elements □ Level 2 - Unique Physician Number (UPN) □ Level 3 - Unique Health Information Number (UHIN) □ Level 4 - UHIN and UPN □ Level 5 - Date(s) of Admission; Discharge; Significant Procedures □ Level 6 - Date of Birth; Medical Record Number; Billing Number  PLEASE PROVIDE JUSTIFICATION BELOW FOR REQUESTING THE  CHOSEN LEVEL:	1998 – 2014 Available (limited data 1989-1997) 2014 2002 – 2014 Available
Emergency Department	□ Level 1 – No Identifiable Data Elements  ☑ Level 2 – Unique Physician Number (UPN) □ Level 3 – Unique Health Information Number (UHIN) □ Level 4 – UHIN and UPN □ Level 5 – Date(s) of Admission; Discharge; Significant Procedures □ Level 6 – Date of Birth; Medical Record Number; Billing Number  PLEASE PROVIDE JUSTIFICATION BELOW FOR REQUESTING THE  CHOSEN LEVEL:  Full 5 digit zip codes are needed to enable determination of market share and to enable mapping of data.	2000 – 2014 Available 2014

## IV. FEE INFORMATION

Please consult the fee schedules for Case Mix data, available at	http://chiamass.gov/regulations/#957_	<ol><li>and select</li></ol>
from the following options:		

	Single Use
	Limited Multiple Use
<b>X</b>	Multiple Use

Are you re	equesting a fee waiver?
	Yes
X	No
receiving a	ase submit a letter stating the basis for your request. Please refer to the fee schedule for qualifications for a fee waiver. If you are requesting a waiver based on the financial hardship provision, please provide ration of your financial situation. Please note that non-profit status alone isn't sufficient to qualify for a fee
	ESTS PURSUANT TO 957 CMR 5.04 (Researchers, Payers, Providers, and Provider Organizations)  mplete only if you are requesting Level 1 (de-identified) Case Mix.
Please des	scribe how you will use such data for the purposes of lowering total medical expenses, coordinating care, king, quality analysis or other administrative research purposes.
	THER REQUESTS - PURPOSE AND INTENDED USE Please explain why completing your project is in the public interest.
they may hospitals	Health Analytics reporting allows hospitals to make strategic and operational decisions so that better service their community members in the future. Results of the project can be used by to better understand the patient population they serve, improve access to care, reduce cost of care to patients, and improve quality of care.
2.	<b>Attach</b> a brief (1-2 pages) description of your research methodology. (This description will not be posted on the internet.)
3.	Has your project received approval from your organization's Institutional Review Board (IRB)? Please note that CHIA will not review your application until IRB documentation has been received (if applicable).  ☐ Yes, and a copy of the approval letter is attached to this application.  ☐ No, the IRB will review the project on  ☐ No, this project is not subject to IRB review.
	No, my organization does not have an IRB.
4.	
	ICANT QUALIFICATIONS
1.	Describe your qualifications to perform the research described or accomplish the intended use of CHIA data.
	employees who will handle the data have years of experience with health care data from multiple state, CMS, ite sources. All employees have passed training in HIPAA regulations.

2. Attach résumés or curricula vitae of the applicant/principal investigator, key contributors, and of all individuals who will have access to the data. (These attachments will not be posted on the internet.)

## VIII. DATA LINKAGE AND FURTHER DATA ABSTRACTION

Note: Data linkage involves combining CHIA data with other databases to create one extensive database for analysis.

Data linkage is typically used to link multiple events or characteristics that refer to a single person in CHIA data within one database.

1.	Do you	intend	to link or merge CHIA Data to other datasets?
		X	Yes
			No linkage or merger with any other database will occur
2.	If yes, v	will the	CHIA Data be linked or merged to other individual patient level data (e.g. disease registries, death
	data), i	ndividu	al provider level data (e.g., American Medical Association Physician Masterfile), facility level (e.g.,
	Americ	an Hosp	pital Association data) or with aggregate data (e.g., Census data)? [check all that apply]
		X	Individual Patient Level Data
		What i	s the purpose of the linkage:
purpos	ses. This	allows	ode is linked to a geocoding database to determine the zip code's latitude/longitude for mapping us to plot a patient as apoint on a map - but does not provide any additional identification be used to identify the patient.
		linkage	
			vided by SAS Corp. from Cary, NC and is not proprietary information. The terms under which we use us to use this information. The only element used to get geocoding info is the zip code.
			Individual Provider Level Data
		What i	is the purpose of the linkage:
		What o	databases are involved, who owns the data and which specific data elements will be used for e:
		⊠ What i	Individual Facility Level Data is the purpose of the linkage:
Linki	ng facility	y level i	nformation to CMS Cost Reports is done to be able to estimate cost of care.
		What o	databases are involved, who owns the data and which specific data elements will be used for
			d to CMS Cost Reports as publically released by CMS as the "HCRIS" data. Facility ID and a year

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	☐ Aggregate Data
	What is the purpose of the linkage:
	What databases are involved, who owns the data and which specific data elements will be used for linkage:
3.	. If yes, for each proposed linkage above, please describe your method or selected algorithm (e.g., deterministic or probabilistic) for linking each dataset. If you intend to develop a unique algorithm, please describe how that algorithm will link each dataset.
	acility ID provided by CHIA is manually mapped to CCN, CCN plus date range of the data (CY 2013 for example) is ed to find the best match with the Cost Report filed by each CCN.
4.	. If yes, please identify the specific steps you will take to prevent the identification of individual patients in the linked dataset.
Th	ne linkage does not require patient level info - each patient has the CHIA facility ID and a date range already attached.
5.	. If yes, and the data mentioned above is not in the public domain, please attach a letter of agreement or other appropriate documentation on restrictions of use from the data owner corroborating that they agree to have you initiate linkage of their data with CHIA data and include the data owner's website.
	*UBLICATION / DISSEMINATION / RE-RELEASE  Describe your plans to publish or otherwise disclose CHIA Data, or any data derived or extracted from such data, in any paper, report, website, statistical tabulation, seminar, conference, or other setting.
The	e results of the studies we create are made available to clients via a secure web site.

2. Will the results of your analysis be publicly available to any interested party? Please describe how an interested party will obtain your analysis and, if applicable, the amount of the fee.

Hospitals interested in obtaining the results of studies can purchase access to the iVantage products utilizing the data. Fees are adjustable based on hospital size and nature of product use.

	Will you use the data	a for consulting purposes?
X	Yes	
	No	
4.	Will you be selling st	tandard report products using the data?
X	Yes	
	No	
5.		software product using the data?
X	Yes	
	No	
c	Will you be recalling	edeta?
6.	Will you be reselling	the data!
	Yes	
X		Ul con les accellionetes dete les consentents de la consentent de la consentent de la conference
		Il you be reselling the data (e.g., as a standalone product, incorporated with a software
pr	oduct, with a subscrip	tion, etc.)?
7.	If you have answere	d "yes" to questions 3, 4 or 5, please describe the types of products, services or studies.
	,	· / ·- //// ·// ·// //// //// //////////
Our I	NVISION product is a	SAAS market planning tool.
	·	
د. US	E OF AGENTS AND/O	R CONTRACTORS
Third-I	Party Vendors. Provid	e the following information for all agents and contractors who will work with the CHIA Data.
		T
	oany Name:	N/A
Conta	act Person:	
Title:		
Addr	ess:	
Telep	hone Number:	
E-ma	il Address:	
Orgai	nization Website:	
Orgai	nization Website:	
Orgai 8.		ractor have access to the data at a location other than your location, your off-site server
	Will the agent/contr	
	Will the agent/contr	
	Will the agent/contr and/or your databas	
	Will the agent/contr and/or your databas ☐ Yes ☐ No	
	Will the agent/contrand/or your databas  Yes No If yes, please provide	se?
	Will the agent/contr and/or your databas Yes No If yes, please provide procedures in your I	se?  e information about the agent/contractor's data management practices, policies and Data Management Plan.
	Will the agent/contr and/or your databas Yes No If yes, please provide procedures in your I	se? e information about the agent/contractor's data management practices, policies and
8.	Will the agent/contr and/or your databas Yes No If yes, please provide procedures in your I	se?  e information about the agent/contractor's data management practices, policies and Data Management Plan.
8.	Will the agent/contr and/or your databas Yes No If yes, please provide procedures in your I	se?  e information about the agent/contractor's data management practices, policies and Data Management Plan.

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10. Describe the qualifications of this agent or contractor to perform such tasks or deliver such products.
11. Describe your oversight and monitoring of the activity and actions of this agent or subcontractor.

#### XIII. ASSURANCES

Applicants requesting and receiving data from CHIA pursuant to 957 CMR 5.00 ("Data Recipients") will be provided with data following the execution of a data use agreement that requires the Data Recipient to adhere to processes and procedures aimed at preventing unauthorized access, disclosure or use of data.

Data Recipients are further subject to the requirements and restrictions contained in applicable state and federal laws protecting privacy and data security, and will be required to adopt and implement policies and practices to protect CHIA data in a manner consistent with the requirements of the federal Health Insurance Portability and Accountability Act of 1996 (HIPAA).

Data Recipients must promptly notify CHIA of any unauthorized use or disclosure of CHIA data.

By my signature below, I attest to: (1) the accuracy of the information provided herein; (2) my organization's ability to meet CHIA's minimum data security requirements; and (3) my authority to bind the organization seeking CHIA data for the purposes described herein.

Signature:	James Strunk
Printed Name:	James Strunk
Original Application Submission Date:	July 8, 2015
Dates Application Revised:	February 1, 2016