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

This form is required by all Applicants, except Government Agencies as defined in 957 CMR 5.02. All Applicants must also complete the Data Management Plan, 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 if your organization may receive CHIA data. Please be sure the documents are completed fully and accurately. You may wish to consult the Evaluation Guide that CHIA will use to review your documents. Prior to receiving CHIA Data, the organization must execute the Data Use Agreement. You may wish to review that document as you complete these forms.

<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 <u>remittance form</u> with instructions for submitting the application fee is available on the CHIA website.

All attachments must be uploaded to IRBNet with your Application. All applications documents can be found on the <u>CHIA website</u> in Word and/or PDF format.

I. GENERAL INFORMATION

APPLICANT INFORMATION	
Applicant Name:	Chrysalyne D. Schmults MD, MSCE
Title:	Associate Professor of Dermatology, Harvard Medical School Director, Brigham and Women's Mohs and Dermatologic Surgery Center Director, Dana Farber High-Risk Skin Cancer Clinic
Organization:	Brigham and Women's Hospital Department of Dermatology
Project Title:	Skin Cancer Expenditure and Equity Analysis
IRBNet ID:	pkaria
Mailing Address:	Brigham and Women's Faulkner Hospital Mohs and Dermatologic Surgery Center 1153 Centre Street, Suite 4349 Jamaica Plain, MA 02130
Telephone Number:	617-983-4626
Email Address:	cschmults@partners.org
Names of Co-Investigators:	Emily Stamell Ruiz, MD Pritesh Karia, MPH Frederick Morgan, BSPH
Email Addresses of Co-Investigators:	esruiz@partners.org pkaria@partners.org fmorgan@partners.org
Original Data Request Submission Date:	06/02/2016
Dates Data Request Revised:	N/A
Project Objectives (240 character limit):	Estimate occurrence, treatment, and cost of care for skin cancer in Massachusetts. The cost of skin cancer diagnosis and treatment will be tabulated based on money paid by insurers. Patients will be stratified by skin cancer tumor type (squamous cell carcinoma, basal cell carcinoma, melanoma, or skin neoplasm of uncertain behavior), demographics (age, race, ethnicity, gender, and other) and type of private insurer.

CASE MIX FILES	Levels 1 – 6	Years Available 2004 - 2014
Inpatient Discharge	□Level 1 – 3 Digit Zip Code	Year(s) of Data Requested:

requested, and your justification for requesting each file. Please refer to the Case Mix Data Specifications for details of

the file contents.

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	□ Level 2 – Unique Physician Number (UPN) + 5 Digit Zip Code □ 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: Level 5 Inpatient Discharge information is essential for tracking patient treatment over time	2010-2014
Outpatient Observation	□ Level 1 – 3 Digit Zip Code □ 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: Level 5 Outpatient Discharge information is essential for tracking patient treatment over time	Year(s) of Data Requested: 2010-2014
Emergency Department	□ Level 1 – 3 Digit Zip Code □ 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:	Year(s) of Data Requested:

Please indicate the Case Mix files from which you seek data, the year(s) of data requested, and your justification for requesting <u>each</u> file.

^{2. &}lt;u>FY 2015 Data</u>: Beginning with ficsal year 2015, Massachusetts Acute Care Hospital and Case Mix and Charge Data (collectively Case Mix Data) are released in **Limited Data Set (LDS) files**. Please refer to the <u>Case Mix Data Specifications</u> for details of the file contents.

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CASE MIX LIMITED DATA SET FILES		Year(s) Of Data Rec Current Yrs. Ava ☐ 2015	
☐ Inpatient Discharge	Please describe how your	research objectives require	Inpatient Discharge data:
☐ Outpatient Observation	Please describe how your	research objectives require	Outpatient Observation data:
	ed by all Applicants requ		Emergency Department data: ations that only include requests for
IV. GEOGRAPHIC DETAIL Please choose <u>one</u> of the follow		or MA residents:	
(Standard) City/M	funicipality *** for the chosen level of g	☐ 5 Digit Zip Code *** eographic detail if reques	☐ 5 Digit Zip Code & City/Municipality *** sting something other than 3-Digit Zip
V. DEMOGRAPHIC DETAIL Please choose <u>one</u> of the follow	ring demographic option	s:	
☐ Not Requested (Standard) *** If requested please, provide methodology:	le justification for reques	☐ Race & Ethnicity*** Sting Race and Ethnicity.	Refer to specifics in your

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	The Management of the Control of the		
VI. DATE DETAIL			
Please choose <u>one</u> option from the	following antions for s	latos	
riease choose <u>one</u> option from the	following options for t	iates.	
□ Voor (WWW(Standard)	☐ Month (YYYYMM	\ ***	☐ Day (YYYYMMDD)***
☐ Year (YYYY)(Standard))	Day (TTTWINDD)
***Place provide justification for	the chosen level of da	to dotail if roques	ting Month or Day. Refer to specifics in
your methodology:	the thosen level of da	te detail is request	ting Month of Day. Refer to specifics in
your methodology.			
VII. PHYSICIAN IDENTIFICATION NU	JMBERS (UPN)	•	
Please choose <u>one</u> of the following	options for Provider Id	entifier(s):	
☐ Not Requested (Standard)	☐ Hashed ID ***		☐ Board of Registration in Medicine #
,			(BORIM) ***
***If requested please, provide ju	stification for request	ing Hashed ID or B	
methodology:		o	, , , , , , , , , , , , , , , , , , , ,
VIII. HASHED UNIQUE HEALTH IDE	NTIFICATION NUMBER	(UHIN)	
Please choose <u>one</u> of the following:		. (,	
Trease enouse one of the following.			
☐ Not Requested (Standard)		☐ UHIN Requeste	N ***
*** If requested please, provide ju	atification for yourset		
if requested please, provide ju	Stification for request	ing Onin. Refer to	specifics in your methodology:
1			
IX. HASHED MOTHER'S SOCIAL SEC			
Please choose <u>one</u> of the following:			
			
☐ Not Requested (Standard)			r's SSN Requested ***
*** If requested please, provide ju	stification for request	ing Hashed Mothe	er's SSN. Refer to specifics in your
methodology:			

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Λ.	DAIA	IIIVKAUT	AIVII	FURIER DATA	ARSTRACTION

A. DATA LINKAGE AND FORTHER 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.
 Do you intend to link or merge CHIA Data to other datasets? ✓ Yes
☐ No linkage or merger with any other database will occur
2. If yes, please indicate below the types of database to which CHIA Data be linked. [Check all that apply] □ Individual Patient Level Data (e.g. disease registries, death data)
☐ Individual Provider Level Data (e.g., American Medical Association Physician Masterfile)
\square Individual Facility Level Data level (e.g., American Hospital Association data) $oxdot{oxtime}$ Aggregate Data (e.g., Census data)
☐ Other (please describe):
3. If yes, describe the data base(s) to which the CHIA Data will be linked, which CHIA data elements will be linked; and the purpose for the linkage(s):
Zip codes from the APCD will be linked to US Census bureau data. Variables in the US Census Bureau data such as median household income and race/ethnicity will be used as proxy variables to create a socieconomic metric.
4. 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 it will link each dataset.
An algorithm has not been developed yet. However, we plan to work with a biostatistician to see if our desired goals are achievable.
5. If yes, please identify the specific steps you will take to prevent the identification of individual patients in the linked dataset.
Only aggregate US census data will be used. This data cannot be linked to individual patients. The linked data will be stored and handled with the same level of security as the APCD files.

XI. PUBLICATION / DISSEMINATION / RE-RELEASE

1. Describe your plans to publish or otherwise disclose CHIA Data, or any data derived or extracted from such CHIA Data, in any paper, report, website, statistical tabulation, seminar, conference, or other setting. 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 display a cell less than 11, and no percentages or other mathematical fomulas will be used if they result in the display of a cell less than 11.
Aggregate data resulting from this analysis will be compiled and presented at national dermatology meetings and published in peer-reviewed journals. No patient-level data will be disclosed.
2. Do you anticipate that the results of your analysis will be published and/or publically available to any interested party? Please describe how an interested party will obtain your analysis and, if applicable, the amount of the fee, that the third party must pay.
The results will be made publicly available via peer-reviewed journals. Article reprints will be available for free 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, with a subscription, etc.)?
N/A

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vou have answered "v	ves" to questions 4	5 or 6 what is the	e fee you will char	ge for such produ	icts services or
	es" to questions 4, 5	5, or 6, what is the	e fee you will char	ge for such produ	ucts, services or
	es" to questions 4, 5,	5, or 6, what is th	e fee you will char	ge for such produ	ucts, services or
If you have answered "y udies?	es" to questions 4, 5	5, or 6, what is th	e fee you will char	ge for such produ	ucts, services c

XII. APPLICANT QUALIFICATIONS

1. Describe your qualifications (and the qualifications of your co-investigators) to perform the research described.

Principal Investigator: Chrysalyne D. Schmults MD, MSCE

Dr. Schmults directs the Mohs and Dermatologic Surgery Center at Brigham and Women's Hospital and founded the High-Risk Skin Cancer Clinic at Dana-Farber/Brigham and Women's Cancer Center. In these roles, she has made several innovations in clinical care. She is one of the foremost experts on non-melanoma skin cancer specifically cutaneous squamous cell carcinoma. She is the first dermatologist to serve as principal investigator on an investigational chemotherapy trial at Dana-Farber Cancer Institute. She developed the Brigham and Women's staging system for cutaneous squamous cell carcinoma and will be directing the American Joint Committee on Cancer's 8th edition workgroup for cutaneous squamous cell carcinoma staging. She has also conducted broader-based cost-effectiveness research including a current study of cost effectiveness of sentinel lymph node biopsy in thin melanomas and a prior cost comparison of infection control techniques in skin cancer surgery.

Co-Investigator: Emily Stamell, MD

Dr. Stamell is a Procedural Dermatology fellow at the Mohs and Dermatologic Surgery Center, Brigham and Women's Hospital. She will be starting a two-year Master of Public Health (MPH) program in Clinical Effectiveness at Harvard School of Public Health in the Summer of 2014. She has extensive training in conducting skin cancer research.

Study Manager: Pritesh S. Karia, MPH

Mr. Karia is responsible for developing data collection systems-from surveys to electronic medical record databases- for a wide range of projects focusing on staging, prognosis, and treatment of cutaneous squamous cell carcinoma and other non-melanoma skin cancers at the Mohs and Dermatologic Surgery Center, Brigham and Women's Hospital. In addition, Mr. Karia ensures compliance with institutional research policies, trains research staff on data collection and data entry, and conducts statistical analysis of study data.

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Research Assistant: Frede Mr. Morgan is a full-time Brig reimbursement data to asse ensures compliance with ins	erick Morgan, BSPH gham and Women's Hospital employee. He has experience analyzing hospital ss the cost of skin cancer. Additionally, he assists with data collection and
2. Attach résumés or curricula v will not be posted on the interne	itae of the Applicant/principal investigator, and co-investigators. (These attachments et.)
XIII. USE OF AGENTS AND/OR	CONTRACTORS
maintenance of the CHIA Data l	elication, the Organization assumes all responsibility for the use, security and by its agents, including but not limited to contractors. e following information for all agents and contractors who will work with the CHIA Data.
Company Name:	There are no third party vendors or agents involved in this project
Contact Person:	paragrama project
Title:	
Address:	
Telephone Number:	
E-mail Address:	
Organization Website:	
database?	the CHIA Data at a location other than your location, your off-site server and/or your Vanagement Plan must be completed by each agent who will store CHIA Data
2. Describe the tasks and product and the Organization's oversight to which the agent has access.	ts assigned to this agent for this project; their qualifications for completing the tasks; of the agent, including how the Organization will ensure the security of the CHIA Data
N/A	

XIV. FEE INFORMATION

Please consult the $\underline{\text{fee schedules}}$ for Case Mix Data and select from the following options:

	Single Use
	Limited Multiple Use
V	Multiple Use

Are you requesting a fee waiver? ☑ Yes □ No	
required). Please refer to the fee schedu	e Remittance Form and submit a letter stating the basis for your request (if ule for qualifications for receiving a fee waiver. If you are requesting a waiver n, please provide documentation of your financial situation. Please note that qualify for a fee waiver.
imposed by state and federal law <i>and</i> is of further agrees and understands that it is	Applicant attests that it is aware of its data use, privacy and security obligations compliant with such use, privacy and security standards. The Data Applicant solely responsible for any breaches or unauthorized access, disclosure or use of ith an approved Application, including, but not limited to, any breach or y its agents.
	Il be provided with data following the execution of a Data Use Agreement that processes and procedures aimed at preventing unauthorized access, disclosure
the minimum necessary to accomplish the privacy and security requirements described to the privacy and security requirements described to the privacy and security requirements described to the privacy and t	he accuracy of the information provided herein; (2) that the requested data is he purposes described herein; (3) the Data Applicant will meet the data ribe in this Application and supporting documents, and will ensure that any is the data use, privacy and security requirements; and (4) my authority to a for the purposes described herein.
Signature: (Authorized Agent)	
Printed Name :	
Title:	
Applicant's Signature:	Pr
Name:	Chrysalyne Schmults, MD, MSCE
Title:	Associate Professor of Dermatology, Harvard Medical School Director, Brigham and Women's Mohs and Dermatologic Surgery Center Director, Dana Farber High-Risk Skin Cancer Clinic
Original Data Request Submission Date:	6/02/2016

Attachments. Please indicate below which documents have been attached to the Application and uploaded to IRBNet:

- ☑ 1. IRB approval letter or summary of project (if applicable)
- ☑ 2. Resumes of Applicant and co-investigators

Dates Data Request Revised:

☑ 3. Data Management Plan (for each institution that will store CHIA Data)