

Date: Monday, September 12, 2022 10:33:45 AM

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ID: IRB201903477

View: Study Title and Staff

**Study Title and Staff**

All items marked with an orange asterisk (\*) are required. Items without an asterisk may or may not be required depending on whether the items are applicable to this study.

1.0 \* IRB Committee:

**IRB-01**

\* 1.1 Is this a multi-institutional research project where the UF IRB will be the single IRB of record for other participating sites OR are you ceding review to another IRB of record? (IAAs are required between UF and other institutions)

Yes  No

2.0 \* Project Title:


**A multi-domain machine learning approach to predicting patient mortality and outcomes**

3.0 Short Title:

**Machine Learning to Predict Mortality**

4.0 Provide a summary description or abstract for this study:

**Proactively identifying patients at-risk for in-hospital and 30-day mortality remains a persistent clinical conundrum. While traditional predictive models reveal obvious risk factors, there are still unexpected patients deaths. We propose a multi-domain machine learning approach to better identify patients at-risk for death so that care can be adjusted accordingly.**

\* 4.1 Is this a OneFlorida study? 

Yes  No

\* 4.2 Is this project a SUS Reciprocity study?

Yes  No

5.0 \* Principal Investigator:

Jennifer  
Fishe

**JX-EMERGENCY  
MEDICINE-JAX**

UF MD, Assistant  
Professor of  
Emergency Medicine

- Interacts or intervenes directly (including "remote" interactions by phone, internet, etc.) with study subjects
- Performs study related activities but does not interact directly with the study subjects**
- Obtains informed consent
- Accesses or obtains, for research purposes, any Protected Health Information [PHI] from a paper or Electronic Medical Record [EMR]**
- Enters research related orders into EPIC for subsequent study physician or provider's electronic signature approval
- Evaluates any Adverse Events, Unanticipated Events, and Protocol Deviations**
- UF Student
- Volunteer (i.e. you are not staff, student or faculty at UF/Shands/VA)
- OneFlorida Site PI

6.0

Study Staff:

*(HDE-ONLY: SEE IMPORTANT HELPTXT)*

Name	Role	Function	Affiliations	Degree/Title
Brian Celso	Co- Investigator	<ul style="list-style-type: none"> <li>▪ Performs study related activities but does not interact directly with the study subjects</li> </ul>	UF	PhD Associate Professor
Salvatore Dacunto	Co- Investigator	<ul style="list-style-type: none"> <li>▪ Performs study related activities but does not interact directly with the study subjects</li> <li>▪ Accesses or obtains, for research purposes, any Protected Health Information [PHI] from a paper or Electronic Medical Record [EMR]</li> </ul>	UF	Data Management Analyst II, MBA, M.Eng. - Biomedical Engineering, MS - Electrical Engineering, BS - Electrical Engineering

Name	Role	Function	Affiliations	Degree/Title
Christina Guerrier	Co- Investigator	<ul style="list-style-type: none"> <li>Performs study related activities but does not interact directly with the study subjects</li> </ul>	UF	MBA, SSBBP, Data Management Analyst II
Guillaume Labilloy	Co- Investigator	<ul style="list-style-type: none"> <li>Performs study related activities but does not interact directly with the study subjects</li> <li>Accesses or obtains, for research purposes, any Protected Health Information [PHI] from a paper or Electronic Medical Record [EMR]</li> </ul>	UF	ME, MBA, Data Management Analyst II
Leigh Neumayer	Co- Investigator	<ul style="list-style-type: none"> <li>Performs study related activities but does not interact directly with the study subjects</li> </ul>	UF	MD, MS, MBA, Professor and Chair
Rui Wang	Co- Investigator	<ul style="list-style-type: none"> <li>Performs study related activities but does not interact directly with the study subjects</li> </ul>	UF	PhD, Database Management II
Cassandra White	Co- Investigator	<ul style="list-style-type: none"> <li>Performs study related activities but does not interact directly</li> </ul>	UF	MD

Name	Role	Function	Affiliations	Degree/Title
		with the study subjects		
Jason Widrich	Co-Investigator	▪ Performs study related activities but does not interact directly with the study subjects	UF	MD MS MBA

7.0 \* Is this study a NIH funded clinical trial?  
 Yes  No

8.0 \* Is this study related to COVID-19/Coronavirus?  
 Yes  No

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**Researcher Training Summary****1.0 Researcher Training Summary****1.1 PI Training:  
Jennifer Fishe:**

<b>Course ID</b>	<b>Course Name</b>	<b>Completed</b>	<b>Course Due</b>
NIH	NIH Extramural Education	7/5/2017	6/28/2047
GCP200	Good Clinical Practice: Biomedical Research	8/29/2022	8/28/2025
IRB803	IRB Training	7/6/2020	7/6/2023
GCP200	Good Clinical Practice: Biomedical Research	10/14/2019	10/13/2022

**1.2 Study Staff Training:  
Brian Gerard Celso**

<b>Course ID</b>	<b>Course Name</b>	<b>Completed</b>	<b>Course Due</b>
H70	CITI Mandatory IRB Trng-Biomed	12/4/2021	11/27/2051
H70	CITI Mandatory IRB Trng-Biomed	1/1/2019	12/24/2048
H70	CITI Mandatory IRB Trng-Biomed	2/3/2016	1/26/2046
H64	NSF Responsible Conduct of Res.	4/15/2013	4/8/2043
CITI	CITI Mandatory IRB Trng-Spec Mods	4/2/2013	3/26/2043
IRB803	IRB Training	7/30/2021	7/29/2024

**Salvatore Joseph Dacunto**

<b>Course ID</b>	<b>Course Name</b>	<b>Completed</b>	<b>Course Due</b>
GCP200	Good Clinical Practice: Biomedical Research	7/13/2020	7/13/2023
IRB803	IRB Training	7/13/2020	7/13/2023

**Christina Guerrier**

<b>Course ID</b>	<b>Course Name</b>	<b>Completed</b>	<b>Course Due</b>
H70	CITI Mandatory IRB Trng-Biomed	12/31/2019	12/23/2049
NIH	NIH Extramural Education	5/16/2018	5/8/2048
IRB803	IRB Training	6/3/2021	6/2/2024

GCP200	Good Clinical Practice: Biomedical Research	8/5/2020	8/5/2023
GCP200	Good Clinical Practice: Biomedical Research	12/31/2019	12/30/2022

**Guillaume Patrick Ludovic Labilloy**

<b>Course ID</b>	<b>Name</b>	<b>Completed</b>	<b>Course Due</b>
GCP200	Good Clinical Practice: Biomedical Research	1/22/2020	1/21/2023
IRB803	IRB Training	9/26/2019	9/25/2022

**Leigh Anne Neumayer**

<b>Course ID</b>	<b>Name</b>	<b>Completed</b>	<b>Course Due</b>
IRB803	IRB Training	10/6/2020	10/6/2023

**Rui Wang**

<b>Course ID</b>	<b>Name</b>	<b>Completed</b>	<b>Course Due</b>
IRB803	IRB Training	12/27/2021	12/26/2024
GCP200	Good Clinical Practice: Biomedical Research	12/21/2021	12/20/2024

**Cassandra Quiana White**

<b>Course ID</b>	<b>Name</b>	<b>Completed</b>	<b>Course Due</b>
IRB803	IRB Training	10/2/2021	10/1/2024

**Jason Brian Widrich**

<b>Course ID</b>	<b>Name</b>	<b>Completed</b>	<b>Course Due</b>
IRB803	IRB Training	5/14/2022	5/13/2025

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View: Requested Review Type

**Requested Review Type**

1.0

\* Requested Review Type: ?

- Non-Human
- Data/Chart Review**
- Banking Only
- Exempt
- Expedited
- Full Board
- Humanitarian Use Device [HUD]/ Humanitarian Device Exception [HDE]-Only

2.0

\* Will you be using Clinical and Translational Science Institute [CTSI] resources (including, but not limited to RedCap, CTSI Biorepository, Healthstreet)? Please see link provided in the help text for a complete list.

**Yes**  **No**

**3.0 Full Board Agenda Group:** *(choose one, if applicable)*  
Indicate if submissions related to study should be reviewed in a Full Board group category

4.0

\* Will information gained from this project result in publication in an ICMJE member Journal? ?

**Yes**  **No**

5.0

\* Is this research considered "classified"?

**Yes**  **No**



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**Oncology SRMC Determination**

**1.0** \* Does this study require that patients have a known diagnosis (current or previous) or suspected diagnosis of cancer as part of the eligibility criteria?

Yes  No

**2.0** \* Is this study looking at cancer relevant aims, endpoints or outcomes (including any studies involving tobacco use, cessation or prevention) (i.e. related to cancer treatment, supportive care, control, diagnosis, screening, prevention, risk factors or other cancer specific research)?

Yes  No

**3.0** \* Do you plan to exclusively enroll patients with a known diagnosis (current or previous) or suspected diagnosis of cancer?

Yes  No

For more information on studies that require SRMC review, [click here](#)

NOTE: If you answered yes to any of the questions above, the UFHCC Scientific Review and Monitoring Committee (SRMC) will need to review this study to determine if SRMC review is required. To submit for SRMC review and determination, please complete the new

submission request form found at: <https://sharepoint.ahc.ufl.edu/research/cro/Intake/SitePages/Home.aspx>

If SRMC review is required, please ensure that the IRB application requests collection of all SRMC required datapoints based on the SRMC level of review assigned. More information can be found at: <https://cancer.ufl.edu/wordpress/files/2019/05/ADM-004-V3-2019-02-20.pdf>

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**Individual Conflict of Interest [COI] and Affiliation Summary**

This page is to show you whether or not all Study Staff have "Agreed to Participate" on the project (as indicated in the "Agreed" column below).

It will also provide you with information as to whether or not the study staff have a conflict of interest [COI] or are considered an unaffiliated investigator [Affiliations/UIA].

Be sure that you send an [email](#) to your study staff to notify them to execute the "Agree to Participate" activity. Use the **Send Email to Study Team** activity to notify them.

**1.0** Individual Conflict of Interest [COI] and Affiliation Summary

Name	Role	Agreed	COI	COI Compliance Doc Doc	Affiliation	UIA Doc
<a href="#">Brian Celso</a>	Co- Investigator	yes	no		UF	
<a href="#">Salvatore Dacunto</a>	Co- Investigator	yes	no		UF	
<a href="#">Christina Guerrier</a>	Co- Investigator	yes	no		UF	
<a href="#">Guillaume Labilloy</a>	Co- Investigator	yes	no		UF	
<a href="#">Leigh Neumayer</a>	Co- Investigator	yes	no		UF	
<a href="#">Rui Wang</a>	Co- Investigator	yes	no		UF	
<a href="#">Cassandra White</a>	Co- Investigator	yes	no		UF	
<a href="#">Jason Widrich</a>	Co- Investigator	yes	no		UF	

**2.0** PI Conflict of Interest and Affiliation Summary

PI Name	Agreed	COI	COI Compliance Doc Doc	Affiliation	UIA Doc
<a href="#">View Jennifer Fishe</a>	yes	no		UF	

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View: EHS Determination

**EHS Determination**

- 1.0** Will you **send shipments** of tissues/specimens/samples **known or suspected to contain a human disease agent**
- \* 1.1 To others inside UF:  
 Yes  No
- \* 1.2 To others outside UF but within the US:  
 Yes  No
- \* 1.3 To others outside the US:  
 Yes  No
- 2.0** Will you **receive shipments** of tissues/specimens/samples **known or suspected to contain a human disease agent**
- \* 2.1 From inside UF:  
 Yes  No
- \* 2.2 From outside UF but within the US:  
 Yes  No
- \* 2.3 From outside the US:  
 Yes  No
- 3.0** Will you **hand carry shipments** of **ANY** tissues/specimens/samples
- \* 3.1 To or from others outside UF but within the US:  
 Yes  No
- \* 3.2 To or from others outside the US:  
 Yes  No

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View: Study Locations

**Study Locations**

1.0 \* Where are you going to conduct this project? *(choose all that apply)*

- UF and/or UF Health**
- UF and/or UF Health Jacksonville**
- VA
- Baptist/Wolfson
- Sacred Heart
- Nemours
- Florida Department of Health
- Halifax
- Community Health Northwest Florida (Escambia Clinic)
- Other sites in the USA
- Other sites outside the USA

2.0 Are you getting any data or tissue from international locations?  
 Yes  No

3.0 Name a lead site investigator if any of the following is true:

More than one (1) UF location is selected  
OR  
One (1) UF location is selected in combination with a non-UF location and  
the PI for the study is not at both locations

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View: Study Funding

**Study Funding**

1.0

\* Indicate appropriate **funding types** for this project:

- DHHS, including NIH and NCI or NSF
- Federal Grant (other than DHHS or VA)
- Veteran Affairs (VA)
- State or Local Government
- Non-Profit Organization
- Industry
- Internally Funded, CTSI
- Internally Funded, Other
- No Funding required to initiate or complete this study**

**NOTE:** Industry authored/sponsored, multisite, FDA regulated research in the College of Medicine is required to be submitted to WIRB. If you wish to submit to IRB-01 and your study is required to be submitted to WIRB, per the above criterion, you must receive written approval from [Michael Mahoney](#).

**DO NOT proceed with your submission until approval is received. If Michael Mahoney approves IRB-01 review, attach a copy of the approval to the 'Miscellaneous Attachments' page of this myIRB submission.**

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View: Funding Summary

**Funding Summary****1.0 Funding Sources:****Government Funding Sources:****ID Source Name Other Grant Number UFIRST Project Deadline**

There are no items to display

**External Funding Sources:****ID Source Name Other UFIRST Project Deadline**

There are no items to display

**Internal Funding Sources:****ID College Dept Unit UFIRST Project Deadline**

There are no items to display

**1.1** Upload Additional Funding documentation/attachments here:**Document Description**

There are no items to display

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View: Conflict of Interest - Institutional

**Conflict of Interest - Institutional**

**1.0** \* Does the institution (University of Florida, Shands , or NF/SG VHS) hold a patent or license for any material, object, or process used in this project?

Yes  No

**2.0** \* Is a patent or license pending or under consideration or is there any intention to file a patent application at a later date?

Yes  No

**3.0** \* Does the institution (University of Florida, Shands, NF/SG VHS) own stock in the company sponsoring the project?

Yes  No

**NOTE:** If the answers to any of these questions change from "No" to "Yes" you must inform the IRB IMMEDIATELY.

*This includes any new investigators who are added to the study at a later date.*

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View: Tissue / Data Access

**Tissue / Data Access**

1.0

Are you accessing or using any tissue (e.g. blood) as part of this research?

Yes  No

2.0

Are you accessing records or data?

Yes  No

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## Study Description

### 1.0 \* Explain the **purpose** of the study:

In-hospital mortality and post-hospitalization and post-surgical 30-day mortality remain a significant healthcare problem in the United States. Annually between 700,000-750,000 patients die in the hospital (CDC - <https://www.cdc.gov/nchs/products/databriefs/db118.htm>), and nearly 200,000 patients die in the 30-day postoperative period (Surgery. 2012 Feb;151(2):171-82). Traditional statistical models perform adequately for predicting mortality from single conditions such as coronary artery disease (Circulation. 2008; 117(6):743-53. ), but underperform in predicting death in complex medical and surgical patients with multiple comorbidities (PLoS ONE 14(3): e0214365). Accurate prediction of mortality for hospitalized and surgical patients represents an important opportunity to optimize and preemptively change medical/surgical management to decrease mortality. Therefore, we propose a multi-domain machine learning approach first using retrospective data to better predict in-hospital and 30-day post hospital and post surgical mortality in patients at UF Health Jacksonville and UF Health Gainesville. Our multi-domain approach (Journal of Asthma. July 2019:1-14.) takes a 360-degree view of the patient, incorporating demographics, geospatial characteristics, socioeconomic factors, individual patient clinical factors and unit/hospital-level factors to comprehensively simulate the many inputs into a patient's outcomes.

### 2.0 Describe the **steps involved** in conducting this study.

If applicable, provide details for each of the following:

- the inclusion/exclusion criteria,
- How you will obtain the list of records/tissue you intend to review
- How data will coded in the analysis phase of the research
- and a data analysis plan

**Inclusion:** All patients greater than or equal to 18 years admitted to UF Health Jacksonville and UF Health Gainesville hospital from January 1 2014 - December 31 2024. We will work with the IDR to continually refresh the data throughout 2024.

**Exclusion:** Less than 18 years of age.

**Data Source:** We will obtain the data through the UF Integrated Data Repository (a CTSI resource).

**Data Coding:** We will assign each patient a unique Study ID number that is not linked to any identifiable data. Some of the data we are requesting is PHI. For example, we are requesting patient address in order to geocode their census tract and 9-digit zip code in order to assign them their area deprivation index. After use of that address information, we will scrub (delete) the address from the dataset. We also request dates of encounters ( to assess temporal trends). We will use both to compute a numeric patient age in years using birthdate if IDR cannot provide patient age at time of each encounter.

We will report ADI according to the categories laid out in its dataset, available at <https://www.neighborhoodatlas.medicine.wisc.edu/mapping>. The ADIs on this website are provided in national percentile rankings at the block group level from 1 to 100. A block group with a ranking of 1 indicates the lowest level of "disadvantage" within the nation and an ADI with a ranking of 100 indicates the highest level of "disadvantage". We therefore will not report a patient's zip code or census tract, but rather their ADI ranking. As for geocoding, we will map ADI percentile (average/median) at the census tract level.

**Data Analysis Plan:** In order to aggregate potential predictive features from raw data variables, we will first split the large

dataset into two datasets (a training and a validation dataset). We will keep 2020 data separate as that will be the dataset we use to test our model after validation. We will employ a supervised approach wherein we build a machine learning algorithm (neural network) with the training set where patients with in-hospital or 30-day post hospital/post surgical mortality is known. The end product of this will be a classifier model to distinguish mortality vs no mortality. We will then test and refine the model on the validation dataset. We will also employ more traditional analyses such as univariate and multivariable logistic regressions to compare model predictive power with our machine learning algorithm. We will consider all variables abstracted for inclusion in the machine learning model.

- 3.0 Describe your storage plan, de-identification plan if applicable, and security plan for the data/tissue. Please state when and how data/tissue will be de-identified if applicable.

**Once all data elements are abstracted (via IDR), we will perform geocoding and calculate patient ages, after which patient addresses and birthdates will be deleted/scrubbed from the dataset.**

**All data, including that in Excel or other files, will be handled only on secure, password-protected computers physically located at UF Jacksonville in locked offices. Data can only be accessed by those listed on this IRB. We will perform statistical analysis in R and Python.**

- 4.0 \* By what authority does the Principal Investigator and Co-Investigator(s) have access to the data/tissue? If accessing medical records please state who is part of the covered entity.

**Covered Entity** is defined as:

1. UF Health Science Center + Shands, or
2. NF/SG VHS

Contact the IRB office if you have questions.

**Dr. Jennifer Fishe (Principal Investigator) has authority to access the data as part of (employee, Assistant Professor) the UF Health Science Center.**

5.0

\* Will any part of this project include the use of VA personnel, facilities and/or resources? (including, but not limited to, review of medical records or use of tissue specimens)

Yes  No

5.1 If "Yes", specify **how** and **where** the research will involve VA:

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**Exempt / Multiple Sources Determination**

1.0

\* When you extract data and record it for research purposes, will you collect/record any **identifiable information** in your data collection forms / records?

- No (All information will be collected without any identifiers, codes, links or other means of linking the research data to the subjects identity) NOTE: you are certifying you will never record identifiable information or coded information even for a temporary period.
- Yes identifiable information from a publicly available source
- Yes (you will either collect identifiable information or you will have a code key/link that associates your data collection tools/research records with the identity of the subjects)**

2.0

\* Do you need to examine **multiple sources** for each subject where one of the sources is specimens /tissue? (Usually in order to correlate information between multiple sources)

- No None of the sources for this research include specimens or tissue**
- Yes you will examine multiple sources for each subject including specimens or tissue

2.1

If yes, Can you access all the sources and extract your research data at the **same time** on a per subject basis?

- No you will need to look at the sources at different times and have a link or record identifiable information
- No you certify all sources are publicly available and that you do not link the public data to a non-public data source
- Yes you certify that you can assemble all of your sources including specimens for each subject and extract your research data from them at the same time and you will never have a link or use a code.

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View: Exempt Regulation Confirmation

**Exempt Regulation Confirmation**

- 1.0** \* Indicate which Categories below you believe the research can be approved under. 😊
- (4)(iii) Secondary research for which consent is not required: Secondary research uses of identifiable private information or identifiable biospecimens, if at least one of the following criteria is met: (iii) The research involves only information collection and analysis involving the investigator's use of identifiable health information when that use is regulated under 45 CFR parts 160 and 164, subparts A and E, for the purposes of "health care operations" or "research" as those terms are defined at 45 CFR 164.501 or for "public health activities and purposes" as described under 45 CFR 164.512(b)
- 2.0** \* Are you collecting any information that could
- (a) be sensitive and possibly affect the reputation, status, or insurability of the research subjects,
  - (b) place the subject at risk of criminal or civil liability, or
  - (c) be damaging to the subject's financial standing or employability?
- Yes  No
- 2.1** If "Yes", describe:
- 2.2** Describe how you will insure the confidentiality of this information:

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View: Study Population, Overview

**Study Population, Overview**

**1.0** \* Will subjects of a specific race or ethnicity (as defined by NIH) be studied?

Yes  No

**1.1** Indicate if you will target any of the following ethnic groups:

- Hispanic
- Non-Hispanic
- Will not target a specific ethnic group

**1.2** Indicate if you will target any of the following racial groups?

- Native American/Alaska Native
- Asian
- Native Hawaiian or Other Pacific Islander
- Black or African American
- White
- Will not target any specific racial groups

**1.3** If any racial or ethnic group has been selected, the justification is:

- The condition being studied only occurs in the selected group(s)
- Other

**1.3.1** If "Other", Provide rationale for selection of specific groups

**2.0** \* Gender:

- Male
- Female
- Both

**2.1** Provide the rationale for studying a single gender:

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View: Subject Numbers (Record/Data Review)

**Subject Numbers (Record/Data Review)**

**1.0** \* Approximately how many subjects records will you study?  
**3000000**

**2.0** \* Will vulnerable subjects be considered for participation in this study?  
 **Yes**  **No**

- 2.1** If "YES", Specify:
- Pregnant Women
  - Human Fetus
  - Neonates
  - Children
  - Prisoners
  - Decisionally Impaired/Comatose Individuals

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View: Study Population Complete

**Study Population Complete**

**You have completed the Subject Population section.**

*Please continue to the next section.*

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View: Data Collection

**Data Collection**

**1.0** List where/how you will obtain your data (e.g. where you will give your survey, all sources to be studied, such as medical records, pathology, or directly from subjects themselves, if applicable). Be very specific:

**We will obtain our data from the UF Health Jacksonville and UF Health Gainesville electronic medical record, which is EPIC. The way we will obtain this data is through an honest broker data analyst in the UF Integrated Data Repository who will pull the data.**

**2.0** Attach a copy of data collection form(s) or questionnaire(s) that will be used for the study.

	<b>Document</b>	<b>Description</b>
<a href="#">View</a>	  <a href="#">Data Variables v4(0.04)</a>	

**3.0** Please describe data points or variables that you have not attached or additional information that is not included in your attachments.

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View: UF VA UF Health Data Collection - Medical Records Access

**Data Collection - Medical Records Access**

- 1.0 \* Will you review any medical records or collect any medical record information from UF and/or UF Health facilities, or the VA?

Yes  No

- 2.0 \* Will you review any medical records or collect any medical record information from any facilities other than UF, UF Health, or the VA?

Yes  No

- 2.1 If "Yes", list all facilities from which you intend to obtain medical records and upload letter of permission from facility, FWA Information, etc.:

**Outside Facility Name Permission Letter, FWA, etc. If No Letter**

There are no items to display

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View: HIPAA Waiver Determination

**HIPAA Waiver Determination**

1.0

\* This is a request to waive a patients' HIPAA authorization:

- to enroll subjects in the study**
- to identify, for the purpose of recruiting, potential subjects for the study
- Not Applicable

**NOTE:** In chart review studies, collecting the data for your study from a medical record is considered enrolling a study subject.

1.1

If UF/Shands/OneFlorida institution, and if this request is to **identify and/or contact potential subjects,**

Will you disclose identifiable information to anyone **outside** your covered entity? *(e.g. release initials, names, birthdates, etc. of people who do not meet eligibility criteria to the study sponsor)*

Yes  No

**If VA is involved, a HIPAA Waiver of Authorization must be completed. If VA is not involved, a HIPAA Waiver of Authorization to Identify or Recruit only needs to be completed if you are disclosing identifiable information outside of the covered entity.**

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**HIPAA Waiver of Authorization**

- 1.0 \* What protected health information will you collect, create, use, or disclose (*disclose = outside the covered entity*), under this waiver?

We will collect patient address. This is for the purposes of geocoding to the patient's census tract / 9 digit zip code so that we may abstract the patient's area deprivation index (ADI). After getting the patient's ADI, we can scrub the dataset of the patient's address.

We will collect patient birthdate only if IDR cannot provide patient age at time of health care encounter.

We will collect date of healthcare encounter to assess temporal trends.

Other health information we will collect includes:

Included variables are:

Date of Encounter

Location of Encounter (ambulatory, inpatient, ED, surgical)

Patient Age at encounter or birthdate if IDR cannot provide age at encounter

Patient Race

Patient Ethnicity

Patient Gender

Patient Insurance at time of encounter

LOS (length of stay – for inpatient / ED encounters)

ICD 9 / 10 codes from encounter

Outpatient medications at each encounter

Medications and time administered for each encounter

CPT codes / Procedures performed and times for each encounter

Status for medication and procedure orders (cancelled or completed)

Death during encounter yes/no

Death 30 days after hospitalization yes/no/not applicable no hospitalization

Death 30 days after surgery yes/no/not applicable no surgery

Tobacco User yes/no

BMI

All vital signs during encounter

Referral orders / consult orders during encounter


Patient 9 digit Zip Code (or address) -> for geocoding to census tract to obtain area deprivation index/ ADI, after which data will be de identified

Family History Data

Social History Data

For hospitalizations / ED visits -> any readmission within 30 days, any ED visit within 30 days

**NOTE 1:** Do not list the information that you are collecting, using, disclosing under an authorization signed by the subject. This section is just for information collected/used/disclosed under this waiver.

**NOTE 2:** (click  for suggested language)

- 2.0 \* I certify that the use or disclosure of protected health information involves no more than a minimal risk to the privacy of individuals based on, at least the following elements:

- a. An adequate plan is in place to protect the identifiers from improper use and disclosure. Add each type of storage used and describe how identifiers will be protected for each type:

**Storage type****Protection Plan Description**

Data is stored on an institutional server that is encrypted, password protected, and backed up

Data will be stored in an institutional common drive that is password protected and encrypted

- b.

Approval of a HIPAA waiver requires that an adequate plan is in place to de-identify (destroy the identifiers) at the earliest opportunity consistent with conduct of the research (*no later than the completion of data analysis, sooner if appropriate*), unless there is a health or research justification for retaining the identifiers or such retention is otherwise required by law. Indicate which methods you will use to de-identify the data that you have collected/used under this waiver. (*check all that apply*)

- Hardcopy of identifiers/key code shredded**
- 
- Electronic copies de-identified and are now anonymous**
- 
- Redacting identifiers as you record information**
- 
- Research conducted at the VA, therefore all research records including identifiers must be retained in accordance with the VHA Record Control Schedule or a minimum of 6 years, whichever is longer.**
- 
- Other**

b.1 If "Other", Specify:

- c. The protected health information will not be reused or disclosed to any other person or entity, except as required by law, for authorized oversight of the research study, or for other research for which the use of disclosure of protected health information would be permitted by HIPAA regulations.

3.0 \* I certify that this research could not practicably be conducted without access to and use of the protected health information.

- a. Explain why it is impractical to conduct the research without the waiver of authorization: (*check all that apply*)

- It would be inappropriate to contact people who do not qualify for the study**
- 
- No direct subject contact to obtain authorization**
- 
- Unreliable/inaccurate contact information for subjects**
- 
- Subjects may be deceased**
- 
- Other**

If "Other", describe:

4.0 \* I certify that I will only access PHI under this waiver until the end of the study.

ID: IRB201903477

View: Privacy Confidentiality Complete

**Privacy & Confidentiality Complete**

**You have completed the Privacy & Confidentiality section.**

*Please continue to the next section.*

Date Page Modified:



ID: IRB201903477

View: Ancillary Reviews

**Ancillary Reviews**

**1.0** Ancillary Reviews Required:  
CTSI

Date Page Modified:

ID: IRB201903477

View: CTSI Ancillary

**CTSI Ancillary**

**CTSI  
Protocol  
Number:** IRB201903477

**Protocol  
Category:**

**UFIRST  
Number:**

**Project  
Title:**  
**A multi-domain machine learning approach to predicting  
patient mortality and outcomes**

**Funding  
Sources:**  
No Funding required to initiate or complete this study

**1.0** eRA Commons ID:

**2.0** You have indicated that you are using CTSI resources (tools, funding, space) throughout the submission. Please check all that apply to this study proposal:

- UF Clinical Research Center
- BERD (Biostatistics, Epidemiology, and Research Design)
- Research Electronic Data Capture (REDCap)

- Research IT
- Regulatory Assistance includes assistance with IRB, RAC, and/or ClinicalTrials.gov
- IDE, IND submission assistance
- Research Subject Advocate, Ethics consultation
- Quality Assurance
- Biorepository
- South East Center for Integrated Metabolomics (SECIM)
- CTSI Human Imaging Core
- Integrated Data Repository (IDR)**
- Genotyping Core
- HealthStreet
- Biobehavioral Core
- Recruitment Assistance

Date Page Modified:

ID: IRB201903477

View: Miscellaneous Attachments

**Miscellaneous**

**1.0** Certificate of Decedent Information Form:

**2.0** Approved Social Security Exception Form:

**3.0** Upload miscellaneous study attachments below:

<b>Name</b>	<b>Modified</b>	<b>Version</b>
There are no items to display		

**4.0** List any specific information that needs to be included in the IRB approval letter:

**NOTE: YOU MUST SAVE THIS PAGE TO SAVE ATTACHMENTS**

Date Page Modified:

ID: IRB201903477

View: Legacy Paper Determination

**Legacy Paper Determination**

1.0 \* Is this a conversion from a paper study?

Yes  No

2.0 \* Is this paper study in the state of Expired Non-renew?

Yes  No

2.1 If Yes, please state why you want to regenerate this study and your plan for the previously collected data:

Date Page Modified:

ID: IRB201903477

View: Study: Final Page

**Study: Final Page****Completion Instructions:**

1. Select "Finish", to access the Study Workspace.
2. From the Study Workspace, execute the "Submit Study" activity to initiate the approval process.  
*This activity is only available to the Principal Investigator.*

**NOTE:** Prior to submitting the study, the PI and all Study Staff must perform the "**Agree To Participate**" activity, located in the My Activities area for this Study.

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**NOTE:** Please click on the "**Hide/Show Errors**" option. This will open a split screen which will show you any errors that may have occurred during the process of completing the forms. Once you have fixed all of the errors identified by myIRB, you will need to click on the "**Hide/Show Errors**" link again to return the screen to normal size.

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**Important Note!** If you plan to publish in an ICMJE member journal, you may be required to register your study in [ClinicalTrials.gov](https://clinicaltrials.gov) PRIOR to enrolling the first subject into the study. For assistance with [ClinicalTrials.gov](https://clinicaltrials.gov) questions, please contact 352-273-5946 or email [UFCT-gov@ufl.edu](mailto:UFCT-gov@ufl.edu).

Date Page Modified:

ID: IRB201903477

View: Data Entry View

**HIPAA Authorization Determination**

\* Specify the type of storage/data transmission to be used:

Describe your protection plan for type of media you selected.

**Data is stored on an institutional server that is encrypted, password protected, and backed up**

**Data will be stored in an institutional common drive that is password protected and encrypted**