

UCSF FRESNO CLINICAL RESEARCH CENTER

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INVESTIGATOR- INITIATED STUDIES

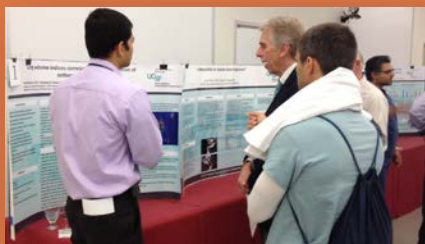
The *Clinical Research Center* has faculty and staff available to assist investigators with all phases of study planning and research design, including:

- Specification of a testable scientific hypothesis
- Selecting the appropriate experimental or observational study design
- Calculation of sample size and statistical power
- Analysis of data, including descriptive and inferential statistics

All services are offered free of charge to UCSF faculty and housestaff.

Each year an eight-week class, "Designing Clinical Research," is offered by Center faculty. The class is open to all faculty and fellows at UCSF Fresno.

For more information, contact Paul Mills, PhD, Assistant Dean
pmills@fresno.ucsf.edu
office: (559) 499-6499



GOT DATA?

Community Medical Centers Corporate Information Systems (CMC CIS) recently completed a research database platform for faculty and residents at UCSF Fresno. The project was led by James Moore, CMC CIS Supervisor of Electronic Health Records Reporting, in collaboration with Simon Paul, MD, Assistant Dean of Academic Affairs at UCSF Fresno, and Nathan Stockamp, MD, Principal Investigator for the Coccidioidomycosis Registry at UCSF Fresno. The database platform includes 13 tables linked by patient MRN and includes over 90 unique variables (see EPIC Database Tables on page 2). The database contains EPIC records from all CMC facilities, University Centers of Excellence practice sites and other EPIC-enabled providers throughout the Fresno area.

While some data dates back to 2000, the full database begins in October 2011 and continues through the present. Updated files are sent to UCSF Fresno every 30 days. The database is housed on a dedicated SQL server maintained by the UCSF Fresno ITS department. The pilot database includes patients diagnosed with pneumonia or coccidioidomycosis. Other diseases of interest to UCSF Fresno investigators will be added over the coming months. To submit a request to create a specific disease registry, contact Tim Tyner, Interim Director, UCSF Fresno Clinical Research Center (ttyner@fresno.ucsf.edu).

How Do I Access the Database for My Research Project?

The database is available to all faculty and residents at UCSF Fresno with IRB-approved protocols. To receive the data, simply provide a list of variables selected from the tables, along with a copy of the study protocol and IRB-approval letter, to Harpreet Baines in the UCSF Fresno ITS office (hbains@fresno.ucsf.edu). Be sure to indicate the desired file format for your data (e.g. Excel, Access, SPSS, SAS, etc.). If your project requires variables not included in the tables below, please contact Paul Mills PhD, Assistant Dean for

Research at UCSF Fresno (pmills@fresno.ucsf.edu), to discuss options for obtaining de-coded MRNs so missing data can be extracted from EPIC.

EPIC DATABASE TABLES

Demographics (RSCH001)	Encounter (RSCH002)	Vitals (RSCH003)	Lab Values (RSCH004)
MRN	MRN	MRN	MRN
Patient_ID	CSN	CSN	CSN
DOB	Visit_Date	Contact_Date	Order_Date
Sex	Enc_Type_Name	Weight	Order_Proc_ID
Race_1	Enc_Type_Category	Height	Line
Race_2	Admission_Date_Time	Temperature	Lab_Result_Date
Race_3	Discharge_Date_Time	PHQ9_Score	Lab_ID
Ethnicity	Department_Name		Lab_Name
Zip_Current	Patient_Class		Lab_Result
Zip_Dx_Enc	Length_Hospital_Admission		Lab_Unit
Patient_Status	ICU_Admsn		Lab_Range_LLN
Date_of_Death	Length_ICU_Admission		Lab_Range_ULN
	Dec_During_Hosp_Admsn		
Medical History (RSCH005)	Medication Hx (RSCH006)	Dx Problem List (RSCH008)	Dx HIM Codes (RSCH009)
MRN	MRN	MRN	MRN
DX_Name	CSN	Diagnosis	Diagnosis_Name
DX_Code	Order_ID	Diagnosis_Code	Diagnosis_Code
Medical_Hx_Date	Med_ID	Diagnosis_StartDate	Diagnosis_StartDate
Comments	Med_Name	Diagnosis_EndDate	Diagnosis_Position
History_Source	Med_Details	Status	
	Med_Status		
	Ordering_Mode		
	Order_Class		
	Order_Status		
	Start_Date		
	End_Date		
	Authrzing_Prov_Name		
Surgical (RSCH010)	Social Hx (RSCH011)	Pathology (RSCH012)	Pregnancy (RSCH013)
MRN	MRN	MRN	MRN
Pat_ID	Occupation	Path_Order_ID	OB_HX_Preg_Order
Surg_Proc_Type	CIGARETTES_YN	Path_Order_Date	OB_Gravida
Surg_Proc_Date	PIPES_YN	Path_Result_Date	OB_Para
Surgery_Comm	CIGARS_YN	Description	Pregnancy_Outcome_Date
Surgery_Type	SNUFF_YN	Narrative	Pregnancy_Outcome_C
	CHEW_YN	Line	Pregnancy_Outcome_Name
	ALCOHOL_DRINKS_WK		Pregnancy_Gest_Age
	ALCOHOL_OZ_PER_WK		
	ALCOHOL_COMMENT		
	IV_DRUG_USER_YN		
	Other_Drug_Use_Comment		

SPONSORED PROJECTS OFFICE

The Clinical Research Center Sponsored Projects Office (CRC-SPO) supports all faculty at UCSF Fresno who conduct funded research. The CRC-SPO currently employs 15 research staff overseeing the operation of more than 60 IRB-approved clinical trials funded by the federal government (National Institutes of Health, Department of Defense) and private industry (pharmaceutical and medical device companies), as well as Central California Faculty Medical Group awards. Funded projects include UCSF Fresno Principal Investigators (PI) from



Cardiology, Emergency Medicine, Endocrinology, General Medicine (Hospitalist), Neurocritical Care Medicine, Neurosurgery, OB/GYN, Medical Oncology, Pediatrics, Pulmonary & Critical Care Medicine, Psychiatry and Trauma Surgery. For a complete list of PIs, studies and sponsors, please see **Appendix A**.

CRC FACILITIES

The Clinical Research Center is a dedicated research facility on the 3rd floor of the UCSF Fresno building. The Center includes [1] fully equipped patient exam rooms, including EKG machines, blood pressure monitors, otoscope, ophthalmoscope, [2] phlebotomy and blood processing room with refrigerated centrifuge, [3] testing and analysis lab with exercise bike and metabolic cart, microplate absorbance reader for serum biomarker analysis (ELISA), portable spirometers for pulmonary function testing and exhale nitric oxide analyzers, [4] secure file room for storage of confidential subject charts, [5] specimen storage room with -20 and -70 freezers, [6] consult room for one-on-one interviews, and [7] conference room for research meetings.

CRC PERSONNEL

The Center houses research staff from different departments, as well as the Assistant Dean for Research and the Center Director. To support the wide range of sponsored studies underway at UCSF Fresno, the CRC-SPO employs two Clinical Research Supervisors, five Clinical Research Coordinators, five Clinical Research Assistants, one Data Analyst, two Regulatory Specialists and one Research Pharmacy Technician. The CRC-SPO Clinical Research Coordinators and Supervisors are all certified clinical research professionals.

SERVICES PROVIDED BY CRC-SPO STAFF



CRC-SPO staff manage every aspect of a clinical trial, from study set-up (site selection, IRB, budget/contract), to implementation (recruitment, enrollment, study visits), to tracking/monitoring (auditing, accrual-based accounting, invoicing), to closeout. To see a complete list of CRC-SPO staff services, please see **Appendix B**.

If you are interested in conducting a clinical trial or would like to learn more about the Clinical Research Center, please contact Tim Tyner, CRC Interim Director, at ttyn@fresno.ucsf.edu.



The **Clinical Research Center** at UCSF Fresno provides cutting edge therapies to San Joaquin Valley residents. Patients now have the opportunity to participate in clinical trials for heart disease, cancer and other conditions without having to leave Fresno.

Type II Diabetes	Respiratory Syncytial Virus	Acute Myeloid Leukemia
Valley Fever	Community Acquired Pneumonia	Multiple Myeloma
Asthma	Hospital Acquired Pneumonia	B-Cell Lymphoma
Heart Failure	Ventilator Associated Pneumonia	Renal Cell Carcinoma
Coronary Artery Disease	Acute Respiratory Distress Syndrome	Urothelial Carcinoma
Pulmonary Hypertension	Status Epilepticus	Non-Small Cell Lung Cancer
Cystic Fibrosis	Ischemic Stroke	Breast Cancer
Non-Alcoholic Steatohepatitis	Intracerebral Hemorrhage	Pancreatic Adenocarcinoma
Bipolar Disorder	Traumatic Spinal Cord Injury	Colorectal Cancer
Panic Disorder	Brain Aneurysm	Glioma

In addition to these clinical trials, UCSF Fresno researchers are conducting population-based studies that examine gene-environment interactions in cancer causation or the role of air pollution in the development of allergies and other inflammatory diseases.

UCSF Fresno promotes the health of Valley residents by providing innovative and excellent patient care, training the next generation of physicians and advancing patient-centered research.