UNIVERSITY OF CALIFORNIA, SAN FRANCISCO AUDIT AND ADVISORY SERVICES

Student Record Security Review Project #17-041

May 2017

University of California San Francisco



Audit and Advisory Services

May 15, 2017

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SUBJECT: Student Record Security Review

Audit and Advisory Services ("A&AS") conducted a review on student record focusing on Office of Registrar and School of Medicine to determine compliance with the Family Educational Rights and Privacy Act (FERPA) and University policy. Our services were performed in accordance with the applicable International Standards for the Professional Practice of Internal Auditing as prescribed by the Institute of Internal Auditors (the "IIA Standards").

Our review was completed and the preliminary draft report was provided to management in March 2017. Management provided us with their final comments and responses to our observations in May 2017. The observations and corrective actions have been discussed and agreed upon with department management and it is management's responsibility to implement the corrective actions stated in the report. In accordance with the University of California audit policy, A&AS will periodically follow up to confirm that the agreed upon management corrective actions are completed within the dates specified in the final report.

This report is intended solely for the information and internal use of UCSF management and the Ethics, Compliance and Audit Board, and is not intended to be and should not be used by any other person or entity.

Sincerely,

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Irene McGlynn Director UCSF Audit and Advisory Services

EXECUTIVE SUMMARY

I. <u>BACKGROUND</u>

As a planned audit for Fiscal Year 2017, Audit and Advisory Services completed a review of student record security to assess the practices for safeguarding students' privacy, including system access to education records, and to determine our compliance with the Family Educational Rights and Privacy Act (FERPA)¹ and University of California (UC) policies² for the Office of Registrar (OOR) and School of Medicine (SOM). OOR maintains aspects of educational records within the Student Information System (SIS) and provides the following services: ordering transcripts, obtaining diplomas, verifying degrees, changing names, scheduling classrooms, paying fees, and others. SOM also maintains education records in MedSIS, a separate student record system, specific to the student's school performance, onboarding administrative documents and data for use in program evaluation and educational research.

FERPA is a federal law that protects the privacy of student education records and applies to matriculated students and former students. It requires educational institutions to obtain written consent of the student prior to disclosing personally identifiable information from education records to third parties, with several exceptions, including non-opt out directory information, in the case of safety emergency situations, and to state/local authorized officials.

There are currently two separate, ongoing initiatives that will impact student record systems. The Committee on Educational Technology (CET) is tasked with identifying all applications and systems related to students and building a risk profile, which will be used to identify systems with restricted data requiring a more detailed, full IT security risk assessment. Another initiative is the evaluation by the Schools of Dentistry, Nursing, and Pharmacy for new student information systems modeled after MedSIS.

While these changes are underway, we recommend any findings in this report to be shared with the schools for leveraging expected controls in place for safeguarding student education records.

II. AUDIT PURPOSE AND SCOPE

The purpose of this review was to assess UCSF procedures for effectiveness of controls in place to comply with FERPA and UC policies and to determine the appropriateness of system access for student record systems. Interviews were held with personnel from OOR, SOM, School of Dentistry, School of Nursing, Global Health, Graduate Division, and Alumni Relations. As OOR's SIS is the central point for student records and SOM's MedSIS is being evaluated for extension to additional Schools, a more detailed review was conducted for them.

The scope of the review included analyses of student record requests and user accounts for OOR and SOM for the period June 2015 to July 2016.

¹ FERPA (34 CFR Part 99) defines educational records as records that contain information directly related to a student and which are maintained by an educational agency or institution.

² UC Policies Applying to Campus Activities, Organizations and Students (PACAOS): 110- student grievance procedures and 130.00-disclosure of information from student records; and UC Records Retention Schedule.

Procedures performed as part of the review included interviews of OOR and SOM department personnel to understand processes for handling student record requests, examination of system access controls and training, review of observations from prior FERPA reviews at other UC campuses, identification of FERPA and UC policy requirements regarding student records, and assessment of record requests to determine FERPA compliance.

Work performed was limited to the specific activities and procedures described above. As such, this report is not intended to, nor can it be relied upon to provide an assessment of compliance beyond those areas specifically reviewed. Fieldwork was completed in March 2017.

III. <u>SUMMARY</u>

Both OOR and SOM require FERPA training for their respective users who have access to student records. Additionally, the Staff & Faculty section of OOR's website has FERPA related policies, including a summary of key concepts and a detailed training handout. OOR provides students with annual FERPA notification, including instructions on how to opt-out of sharing directory information (e.g. email, address, and phone number) within SIS.

Both departments have recently completed system access reviews to remove access for terminated or transferred employees. In addition, SOM has an online request method for certain types of data requests including system access where user verification of having read the FERPA Privacy Act before the request can be granted, and requires that educational data for research has CHR approval prior to distributing data.

Although FERPA awareness is present, the oversight activities for tracking and monitoring compliance can be improved in the areas of: written procedures on handling and tracking different types of student record requests, training and system access controls. The specific observations for this review are listed below.

A. System Access for SIS and MedSIS

- 1. Access management procedures for SIS and MedSIS were not sufficiently established to protect student information.
- 2. MedSIS access review did not sufficiently include key attributes such as reviewing for inactivity or confirming with users for transfers or role changes.

B. FERPA Oversight Activities

- 1. There is no recordkeeping of FERPA training course completion by staff members.
- 2. Standard Operating Procedures (SOPs) do not clearly define processes for handling different type of student record requests.
- 3. An internal process for submitting and evaluating FERPA violation complaints does not exist.
- 4. Record-keeping requirements are not consistently interpreted or applied.

Further detail on the specific observations along with additional opportunities for improvement can be found in the below section on Observations and Management Corrective Action Plans.

IV. OBSERVATIONS AND MANAGEMENT CORRECTIVE ACTIONS

A. System Access for SIS and MedSIS

<u>No.</u>	Observation	Risk/Effect	Recommendation	MCA
1	Access management procedures for SIS and	The lack of specific	To ensure timely review of	1. OOR will document policies
	MedSIS were not sufficiently established to	requirements and	accounts and that system	and procedures for access
	protect student information.	guidance could	access is revoked promptly	management for SIS.
	 Review of access management policies and procedures for SIS and MedSIS identified the following: Account role definition has not been documented for SIS. Provisioning of roles in a manner that map 	result in inconsistent practices that lead to unintended access to sensitive data for terminated employees or employees that no longer need access.	ctices that lead to ntended accessthe University or no longer need access, departments should establish formal procedures for provisioning, de-provisioning, and periodic review of user to include:	Responsible Party: Director Student Info Systems Implementation Date: June 30, 20172. SOM has drafted and will
	to application function/role or access level/rules within the application has not been completed for SIS.	longer need access.	what, and by whose authority.	a. Supervisors will be required to submit an
	 Access requests to MedSIS and SIS do not distinguish between requestor and approver other than clarifying if the request is for the requesting user or another individual. 			online account request form in order to provision access to MedSIS for any new staff. An email confirmation upon
	 Procedures for periodic review of user access or user access changes have not been established for either SIS or MedSIS. Both OOR and SOM completed an access 			request and new account creation will be sent to the supervisor and employee.
	review for SIS and MedSIS respectively in September 2016. This had not previously been done annually for OOR, but will be moving forward.			 b. An annual review and renewal of accounts process will be conducted each July. This will include the
	In March 2014, Accuvant was hired to perform an enterprise information security risk assessment that included education records for Student Academic Affairs and SOM. The assessment			review and capture of last login for every user and current university affiliation and will be
	noted similar findings as above and they have not			reviewed by the Director,

No.	Observation	Risk/Effect	Recommendation	MCA
	been fully addressed. The lack of current or valid			Student Experience.
	security policies, standards, and procedures were			c. All active users will
	rated as critical risks per the Accuvant report that			receive a communication
	needed to be addressed as soon as possible.			to confirm their continued
				access and attest to
				having reviewed the
				MedSIS User Guide and
				their continued
				adherence to protecting
				data privacy and FERPA.
				Responsible Party:
				SOM Executive Director of
				Tech Enhanced Edu
				Implementation Date:
				July 30, 2017
2	MedSIS access review did not sufficiently	The lack of key	The annual SOM access	SOM implemented capture of
	include key attributes such as reviewing for	information, such as	review should include:	the last login date on user
	inactivity or confirming with users for transfers	last login date,	adopting threshold and	accounts for a six-month period
	or role changes.	hinders department	frequency of review for	during this review. If a 90-day
	COM porterme MedCIC upor ecocupt reviews	from applying	elevated privilege accounts	threshold is adopted for elevated
	SOM performs MedSIS user account reviews annually by reviewing payroll data for separated	effective security controls for their	as well as regular user accounts; confirming with	accounts or access to sensitive data, this will be a sufficient time
	employees. The review process did not include	account monitoring	users if a business need for	period of information captured.
	the number of days the account had been inactive	processes, such as	access still exists based on	However, if a longer period of
	or verification with users for a business need for	identifying inactivity	inactivity threshold;	inactivity threshold is adopted for
	access. Specifically, last login date was not	or inappropriate	inactivating accounts that do	regular user accounts, this may
	captured by MedSIS and 13 out of 185 active	access at odd hours.	not have user role assigned;	not be sufficient data. If
	accounts did not have user role assigned.		and reviewing accounts with	feasible, it would be beneficial to
			multiple user roles and/or	extend the period to account for
	Leading practices for account security controls		roles with high privilege to	the annual assessment of
	require last login date information in order to have		reassess validity.	regular user accounts.
	effective account review processes, including			Requests for new elevated
	monitoring of elevated privilege accounts; when		Departments should retain	accounts and the de-
	policy or guidelines expect deactivating accounts		evidence of compliance	provisioning of elevated
	after a specific period (90 days for restricted or		regarding system access	accounts will be initiated and
	sensitive data); and to assist in incident		control reviews for auditing	managed by the Director,

<u>No.</u>	Observation	Risk/Effect	Recommendation	MCA
	management.		purposes to demonstrate a pattern of consistent strong	Student Experience.
			compliance and	Responsible Party:
			accountability.	SOM Executive Director of Tech
				Enhanced Edu
				Implementation Date:
				May 31, 2017

B. FERPA Oversight Activities

<u>No.</u>	Observation	Risk/Effect	Recommendation	MCA
1	 There is no recordkeeping of FERPA training course completion. OOR administers periodic in-person FERPA training sessions.³ There was no formal mechanism to capture staff that had completed training and no requests for evidence of training completion. There are approximately 300 active SIS users from 69 departments and percentage of training compliance status could not be determined. FERPA training reduces the risk of the inappropriate release of student information and tracking would identify compliance performance status. 	A lack of FERPA knowledge combined with access to FERPA data could result in the unintentional disclosure of student information and violation of Federal Regulations.	OOR should consider a tracking solution, such as UC Learning Management System, for tracking FERPA training course completion to demonstrate compliance status. For the 300 existing users, OOR should consider a retroactive process of obtaining user attestation and retaining this record for as long as the user is active.	OOR will implement an online training module that will allow tracking of training completion via LMS. Users whose training is not documented on existing login sheets will be required to retake the training. <u>Responsible Party:</u> Asst VC-Student Info <u>Implementation Date:</u> December 30, 2017
2	 Standard Operating Procedures (SOPs) do not clearly define processes for handling different types of student record requests. a. While OOR has a training document to use as a source for operational procedures, it reiterates FERPA requirements and does not cover key procedures to address them, such as: 	Undocumented procedures for handling student record requests create inconsistent practices that may result in noncompliance with FERPA and	OOR should develop their SOPs to include as much information as applicable, describing: who, when, how, where, and what to ensure that different type of requests are processed in accordance with FERPA and university requirements.	 OOR will develop SOP for the different types of student record requests. <u>Responsible Party:</u> OOR Asst VC-Student Info <u>Implementation Date:</u> September 29, 2017

³ In 2016, it was held twice, on August 30 and September 7.

No.	<u>Observation</u>	Risk/Effect	Recommendation	MCA
	 Criteria for verification of student identity when inquiries or requests are not in person. Documentation of the method and criteria for request, timeline for access, and a checklist to ensure the removal of non- education records for student requests to review education records. 	university policies.	SOM should update their procedures to include quality checks and tracking for student requests.	2. The Student Record Analyst (SRA) will conduct a manual review of all student documents to determine that documents provided for students requesting to inspect their own records exclude non-education records and
	 Categorization of third party requests, such as when 'opt out' directory information should be excluded or PII will be provided without consent. 			recommendation letters that the student has opted-out of viewing. All student inspection requests will be logged. SOM does not provide
	 b. SOM procedures can be enhanced by the following: Adding a step for the Student Record Analyst (SRA) to determine that documents provided for students requesting to inspect their own records exclude non-education records and recommendation letters that the student has opted-out of viewing. 			student directory information as part of a student record request as per SOM Policy. <u>Responsible Party:</u> SOM Executive Director of Tech Enhanced Edu
	 Tracking student inspection requests, as direct email may not be retained when a new SRA's email is used. This log will demonstrate management of oversight activity. 			Implementation Date: May 31, 2017
	 Implementing review to ensure students' opt-outs are applied for directory information requests. 			
3	An internal process for submitting and evaluating FERPA violation complaints does not exist.	UCSF may be subject to unnecessary federal audits and	The Chancellor's Office, working in collaboration with the Privacy Office, Office of the Registrar, and potentially	The Executive Vice Chancellor and Provost's Office and OOR will inquire about other campuses policies and practices
	Although OOR's website includes informing students of the right to file a complaint of FERPA	reputational damage.	Student Affairs, should establish a process for filing	around FERPA violation grievance processes, discuss

No.	Observation	Risk/Effect	Recommendation	MCA
	violation with the Department of Education (DOE),		complaints that includes the	with relevant parties at UCSF to
	it is leading practice for an initial attempt of internal	Students may not	following information: the date	define ownership of the process,
	resolution to support the student's grievance and	have sufficient	the alleged improper	and delegate authority for
	accountability before filing to DOE. Additionally, it	information to	disclosure occurred or the	developing a policy and
	is not made clear where or how to submit a FERPA	exercise their rights	date the parent learned of the	procedure for handling FERPA
	complaint.	under FERPA.	disclosure; the name of the	violation grievances.
	LIC BACAOS, 110 requires a presedure to reache		school official who made the	Peoponaible Partur
	UC PACAOS -110 requires a procedure to resolve student grievances about FERPA. While there are		disclosure, if that is known;	Responsible Party: Communication Coordinator and
	policies related to correcting information contained		the third party to whom the education records were	Asst VC-Student Info
	in records or grievances related to academic		disclosed; and the specific	
	dismissals and disability accommodations, no		nature of the information	Implementation Date:
	policies or procedures related to access or		disclosed.	June 30, 2017
	disclosure were able to be identified during the			
	review.		OOR should consider revising	
			student's rights language to	
			encourage an internal	
			resolution process with a link	
			to the internal procedure,	
			while making DOE contact	
			available on their website.	
4	Record-keeping requirements are not	UCSF may not be	AAS requested clarification	OOR will discuss at the next
	consistently interpreted or applied.	able to provide evidence of	from Student Services at	council meeting with other UC
	While UC PACAOS-130 does provide instructions	compliance with	UCOP, who is currently corresponding with UCOP	OOR offices and report back on the practice for record-keeping
	for recording and maintaining information on	FERPA if needed.	Office of General Counsel to	of consent and/or disclosure
	disclosures of student records and consent		provide feedback. OOR and	forms, including records of
	provision, the policy has been interpreted		the Schools should continue	retention timeframe for records
	differently by OOR and the Schools' personnel		to work with UCOP to ensure	of disclosure and records of
	responsible for handling requests. These different		that policies are interpreted	consent.
	interpretations have led to differing practices		and implemented	
	across the groups receiving requests for student		appropriately, specifically	Responsible Party:
	records, and potential incomplete maintenance of		regarding redisclosure	Asst VC-Student Info
	student record disclosures.		notification requirements and	Implementation Date:
			record-keeping for	June 30, 2017
			disclosures and consent.	5415 55, 2011

C. Opportunities for Improvements

<u>No.</u>	<u>Observation</u>	Risk/Effect	Recommendation
1	A single central access point or repository does not exist for student record requests. Student record requests can come in multiple places via multiple methods. This process is not conducive to tracking for fulfillment of disclosure request or managing and monitoring requests, which are key components for oversight activities.	The lack of oversight on all or at least high-risk type of student record requests that comes through the office hinders effectiveness of managing compliance.	If feasible, in order to reduce manual errors and administrative burden, determine an automated central place for submitting and receiving student record requests that enables reporting on types of requests and how they were handled to demonstrate compliance with FERPA.
	Strengthening oversight activities helps ensure restricted information is protected from unauthorized access.		
2	Clarifying the use of MedSIS flags to distinguish between internal records and records that would be disclosed to students and enhancing governance over the types of documents uploaded would strengthen FERPA compliance. Upon a student's request to inspect their records, MedSIS has a functionality that allows the system to zip all files except those that are flagged as "Progress" or "Office Use Only". The Student Record Administrator (SRA) then provides this auto-zipped file to the student in a secure location. However, the MedSIS User's Guide does not define when these flags should be used and their implication relating to FERPA education records. While it states "Faculty and staff members may also keep <i>informal</i> records in MedSIS would not be categorically exempt from disclosure to students based on FERPA requirements.	Without clear definitions of what information should be flagged, individual users may flag different types of documents depending on their understanding, leading to incorrect provision of information to students.	SOM should assess the types of documents that have been flagged as internal records to understand current practices and determine if these documents are education or non- educational records that are not subject to student review. SOM should update their MedSIS user guide to explain when to use Progress or Office Use Only and their implications on FERPA compliance. SOM may want a category that flags "FERPA non-education" records if an assessment concludes that there is a business need to keep all records in MedSIS including those that are non-education as defined by FERPA to distinguish between records flagged as "Office Use Only" that may still be subject to student inspection.
	There are about 70 users with roles including Staff Read- Only, Staff, Mentor, Director and Data Manager with ability to upload documents into MedSIS, and it's not always clear		committed to improving their processes, and will do the following by August 31, 2017: SOM will review the types of documents that have
	what types of document have been uploaded and flagged "Progress" or "Office Use Only". 486 students have documents labeled "Progress" that contain sensitive		been flagged as internal records to understand current practices and determine if these documents are education or non- educational

<u>Observation</u>	<u>Risk/Effect</u>	<u>Recommendation</u>
disciplinary records. Without an actual walkthrough assessing these documents, SOM cannot be certain that		records that are not subject to student review.
internal documents that do not meet the FERPA definition of "education records" would be excluded from viewing by the student or that all documents that do meet the FERPA definition of "education records" would be included for		SOM will update their MedSIS user guide to explain when to use Progress or Office Use Only and their implications on FERPA compliance.
viewing by the student.		SOM will review and document current policy and practice for handling grievance related documentation in MedSIS including what roles can views these files and number of users with these roles. SOM will work with OOR and UCSF General Counsel to review the current process.