

University of Kentucky Internal Audit (UKIA) Activity Report for UK HealthCare (UKHC)

September 13, 2019



I. Risks and Concerns

II. UKIA Structure for UK HealthCare

III. Work Product (*Previous, Current, Future*)



UK HealthCare Profile

 Public Exposure 40,909 patient discharges in 2018 – an average of 113 per day 677,996 hospital outpatient visits 1.7 million ambulatory clinic visits 	 External Factors Grants Federal/state Private Contracts Vendor Partnerships Industry accreditation The Joint Commission 	 Materiality \$1.7 billion in revenue Building Efficiencies through Strategic Transformation (BEST) Pharmacy Retail Hospital
 Audit Duration Annual financial statement audit Regulatory compliance audits Federal State 	 Control Environment 1 Key leadership changes 8,875 Full-time equivalent employees Ancillary locations 	 Control Environment 2 Implementation of Electronic Health Record (EHR) system Numerous applications (50+) Physical infrastructure Data centers Network



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Regulatory Compliance Common Events



Industry-wide

- Pharmacy Regulations
 Drug Pricing Program
- Fair Labor Standards Act (FLSA)
- Health Insurance Portability and Accountability Act (HIPAA)
- False Claims Act
- Emergency Medical Treatment and Labor Act (EMTALA)
- Stark Law



Regulatory Compliance Common Events



Industry-wide

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HealthCare

- Dispensing
 - Non-Compliance with HIPAA
 - Time Reporting



Information Technology Common Events



Industry-wide

- Cybersecurity
- Disaster Recovery
- Infrastructure
- Capacity Management
- Access Management
- Mobile Device Management



Information Technology Common Events



- Cybersecurity
- Disaster Recovery
- Infrastructure
- Capacity Management
- Access Management
- Mobile Device Management



- JK HealthCare
- Single Enterprise EHR Platform Maintenance and Updates
- Role-based Access
- Deprovisioning
- Encryption
- Access Management
- Endpoint and Mobile Device Management
- Server Configuration



Business Operations Common Events



Industry-wide

- Health Information Management
- Billing and Collections
- Charge Capture
- Coding



Business Operations Common Events



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HealthCare

- Contract Management
 - Tracking Transactions
- Cash Handling
- Manual Coding
- Inventory Management



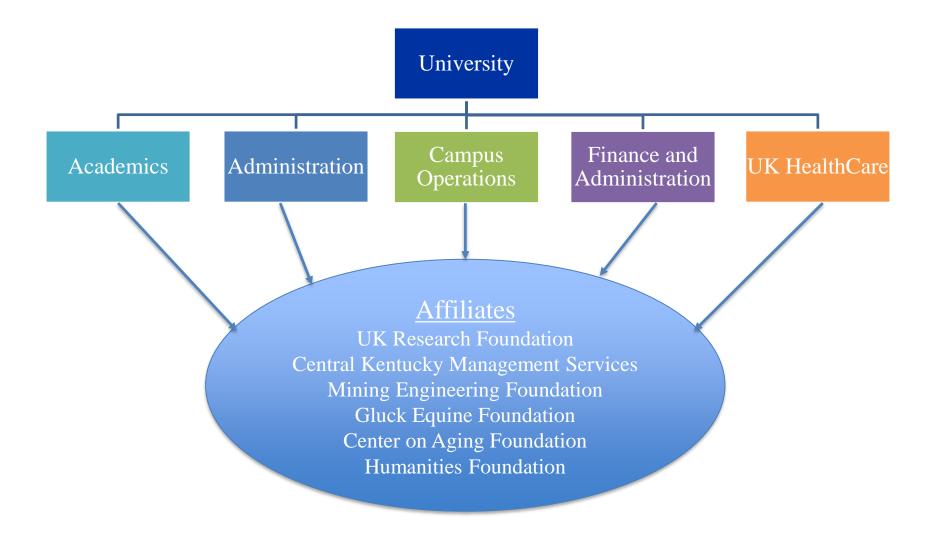
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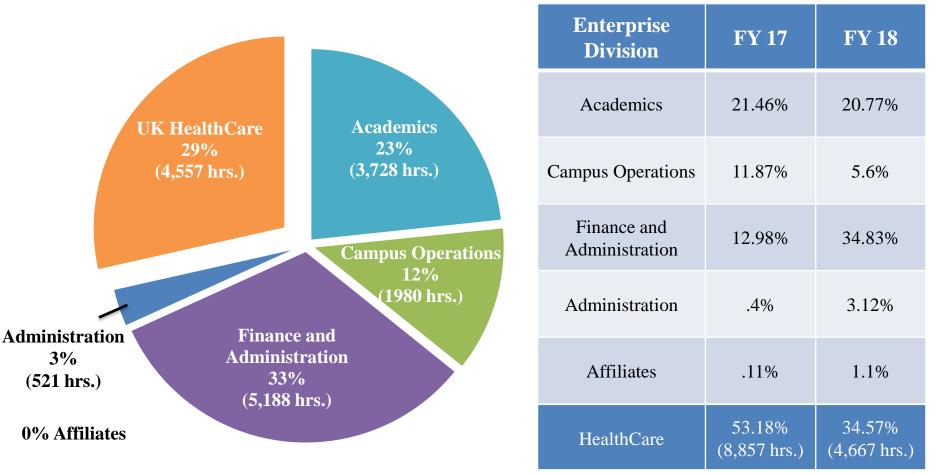
Auditing Structure By Enterprise Divisions





UKIA Hours By Enterprise Division

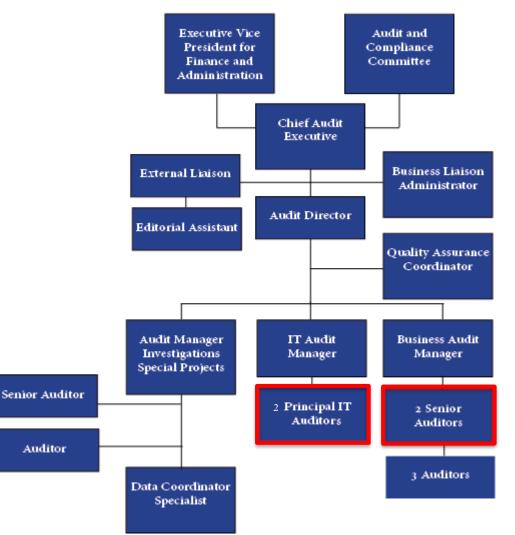
Fiscal Year 2019 Hours

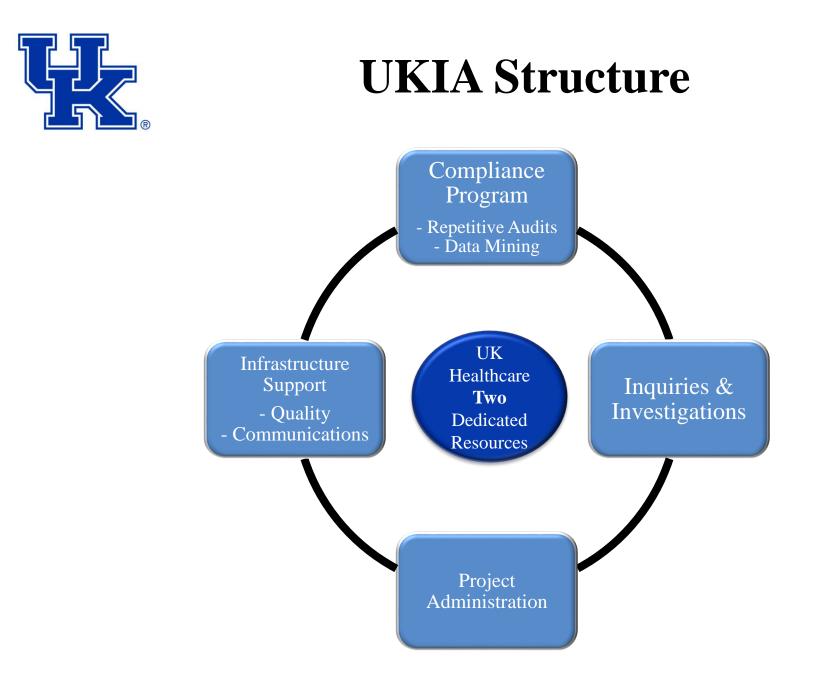




UKIA Resources Dedicated to UK HealthCare

- As of March 2019, UKIA dedicated one principal IT auditor and one senior business auditor to work with UKHC.
- The two audit consultants now collaborate with the infrastructure team for UKHC inquiries and investigations.







I. Risks and Concerns

II. UKIA Structure for UK HealthCare

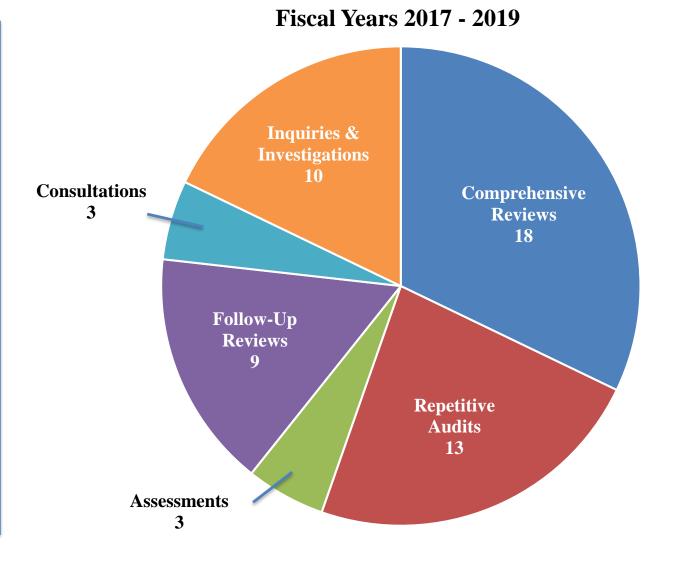
III. Work Product (*Previous, Current, Future*)



UKIA Activity in UK HealthCare

Nine UKIA Services

- Comprehensive Reviews
- Repetitive Audits
- Assessments
- Follow-up Reviews
- Consultations
- Inquiries & Investigations
- Information Technology Reviews
- Data Mining
- Training





Approved Work Prioritization

	Processes			
1	Contract Management			
2	Family Educational Rights and Privacy Act (FERPA)			
3	Health Insurance Portability and Accountability Act (HIPAA)			
4	Conflicts of Interest			
5	Regulatory Compliance			
6	Student Fees			
7	Agency Accounts			
8	ProCard			
9	Cash Handling			
10	Vendor Master File			
11	Deprovisioning			
12	Capital Construction			



Approved Work Prioritization

	Processes	Units	
1	Contract Management	Alumni Associations	
2	Family Educational Rights and Privacy Act (FERPA)	Shared Services	
3	Health Insurance Portability and Accountability Act (HIPAA)	Service Centers	
4	Conflicts of Interest	501(c)(3) Entities	
5	Regulatory Compliance	Required by Kentucky Revised Statutes (KRS)	
6	Student Fees	Academic Units	
7	Agency Accounts		
8	ProCard		
9	Cash Handling		
10	Vendor Master File		
11	Deprovisioning		
12	Capital Construction		



Approved Work Prioritization

	Processes	Units	Applications	
1	Contract Management	Alumni Associations	In-house Applications	
2	Family Educational Rights and Privacy Act (FERPA)	Shared Services	Server Configuration	
3	Health Insurance Portability and Accountability Act (HIPAA)	Service Centers	Unit Applications	
4	Conflicts of Interest	501(c)(3) Entities		
5	Regulatory Compliance	Required by Kentucky Revised Statutes (KRS)		
6	Student Fees	Academic Units		
7	Agency Accounts			
8	ProCard			
9	Cash Handling			
10	Vendor Master File			
11	Deprovisioning			
12	Capital Construction			



FY2020 UK HealthCare Work Prioritization: Current Activities

Approved Work Prioritization	Project Name	Ris	oonents*	
Contract	2019 MC02 Crothall	(15)	(16) Event	(7) Industry
Management		Operational	Identification	Compliance
	2020 MC01 Center of	(5) State	(2) Customer	(18) IS
	Excellence in Rural Health	Regulations	Type	Applications
Regulatory	2019 MC04 Ryan White	(1) Customer	(6) Federal	(20) Management
Compliance	Grant Clinical Review	Type	Regulations	Requests
	2020 RA03 UK HealthCare Nursing Trauma and Acute Care Surgical Services (ACSS)	(6) Federal Regulations	(5) State Regulations	(16) Event Identification
Cash Handling,	2019 MC05 Patient	(16) Event	(9) Transaction	(12) Internal Audits
Expanded Scope	Financial Services	Identification	Volume	
Academic Unit	2019 CP06 College of Medicine Expansion	(4) Program Visibility	(20) Management Requests	(6) Federal Regulations
Clinical Unit,	2020 PP06 Family and	(16) Event	(2) Customer	(15) Operational
Expanded Scope	Community Medicine	Identification	Type	

* See Appendix A at the end of this presentation.



FY2020 UK HealthCare Work Prioritization: Follow-Up Activities

Approved Work Prioritization	Responsible Area	Project Name	Business Risk Factor Components*
Contract Management	UK HealthCare Administration	Network Medical Devices Review	
Clinical Unit	College of Medicine	Ophthalmology - Administrative Procedures	
Clinical Unit	College of Medicine	Sanders Brown Center on Aging	(7) Industry
Cash Handling	Pharmacy Services	UK Pharmacy Cash Management Kentucky Clinic Pharmacy Cash Handling Turfland Retail Pharmacy Cash Handling University Health Pharmacy Cash Handling Specialty Pharmacy Cash Handling	Compliance (15) Operational (20) Management Requests
ProCard	Pharmacy Services	UKHC Pharmacy Services ProCard	
Regulatory Compliance	UK Police Department	UKHC Good Samaritan Security UKHC Chandler Security UKHC Eastern State Hospital Security	

*See Appendix A at the end of this presentation.



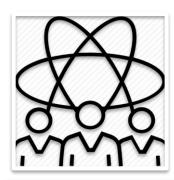
FY2020 Audit Projects Affecting UK HealthCare

Approved Work Prioritization	Project Name	Risk Factor Components*		
Contract Management	2020 CP01 Cost Savings Analysis	(15) Operational	(20) Management Requests	
Regulatory Compliance	Grants	(7) Industry Compliance	(6) Federal Regulations	(5) State Regulations
Vendor Master File	Vendor Master File (Campus-wide)	(9) Transaction Volume	(5) Operational	(18) IS Applications
Conflicts of Interest	2020 CC02 Conflicts of Interest	(16) Event Identification	(12) Internal Audits	

* See Appendix A at the end of this presentation.



UKIA/UKHC Partnership Ongoing Meetings, Committees, and Partnerships



Information Gathering and Updates

Office of Corporate Compliance Vice President and Chief Financial Officer Chief Information Officer Office of Legal Counsel

Partnerships for Discovery and Resolution

Risk Management Advisory Committee Compliance Ethics Committee Office of Sponsored Projects Administration (OSPA) Advisory Group UKIA also has an *internal* Healthcare Committee which meets biweekly to discuss UKHC issues, trends, and priorities.





UKIA Trainings Include UK HealthCare Employees

The Business of Fraud Advanced Fraud BOTT – Business Operations Training Transformation



UK HealthCare Monthly Dashboard

Once a month, UKIA provides UKHC and main campus administration with a status update on the projects that are underway in UK HealthCare. The monthly "dashboard" includes:

- 1) Audit Service Type
- 2) Project Name and Objectives
- 3) Project Phase and Expected Completion Date

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Status Legend: "N" =	New, "U" = Update, *-	-" = No update, "R" = Will be removed		UI	(H	ea	lth	С	are		July Activity Update as of 7(25(2019
Audit Services	Unit Name	Project Name	Statu s	Project Objective	Planning	2		t pataoduon	Statement of Work	Expected Completion Date	Comments
	UKHospital	2019 MC03 Crahal	v	UnA sudiodyctives are to boas on contrast nanagement and complement the following areas: + Acoust in invisiong + Acoust in invisiong + Acoust in an operations + Assessment of hey performance indicators		Π			Scope will be developed after fish assessment completed.	8302219	Parring- Dozening and reversing documentation. Clent and Clencal Engineering. (Dothal) minimens will continue bit conducted. Reverse and analysis of documentation received to date as a progress. Projectic completion date changes to \$2002018
	College of Medicine	2019 MCOI Ryan White Grant Review	υ	Review Rysnikhts grants for adherence to ledenal regulations and reporting requirements.					Scope will be developed after risk assessment completed.	8/30/2019	Planning - Rok assessment and analysis complete for Operations, the pharmacy segment to be begin interviews and be incorporated into review. Scope to be determined.
	UKHospital	2019 MC05 UK HealthCare Patient/Financial Services	v	To assess the payment process and monitor receiptilissued to patients.					Scope will be developed after nuk assessment completed.	11/1/2019	Parone, - Classing, and reviewing documentation. This comprehensive program the scope expansion rt2118 PAOE UNO-C Heaves Notours Services - Cash Handling which has been could and environment and beaution. U.M.Nass. communication the review of spectree to Corporate Compliance in an efforts leng communication channels open. Prograd oppliance and expect to 11:10:2011.
Comprehensive	UKHospital	2020 MC01 Center of Excellence in Flunal Health	v	To evaluate the Center of Excellence in Rural Healths (CERH) FT 19 fearnable premiserior, including reamware, expenses and associated fearnable in system and provide advected fearnaris streamers wortho the Council on Protectorality Stoudien and the Legislative Research Commission for each program function in the Center of Excellence in Rural Health (CERH).					Scope will be developed after nok assessment completed.	8302219	Panning - Cleritrothed of audi on Sri Sri C- site visit occurred July 10th - 12th for internation gathering and field observations.
	All UK HeathCare	2020 CC02CConflict of Internet	×	To evaluate how potential conflicts of interest are monitored, identified, communicated, addressed and documented across all UK. HealthCare.					Scope will be developed after risk assessment completed.	12112219	Panning - Clents and key stakeholders notified shaudt on 07/15/2515 interviews and documentation pathering to be begin in August.
Inquiries / Investigations	College of Medicine	2019 NG08 Family and Community Medicine	υ	To substantialle claims of mappropriate activity.					The scope period tor this review will be FY17-16 and will be expanded as necessary. Audit activity will be determined during the planning. phase.	8302219	Panneg-It addon't e-insulan driproperaches, reveal effer expendence a comprehensive news. Theorypowersal effects assigned a new addinates, which all appear or necence's deviced the value compare at Turbanch table, and Hindhan locations two locations reveals the value. Cotaining and revealing documentation.
Data Mining	Purchasing	2019 DA02 Cupicate Vendor	8	UKA will analyze data that is bund within the Viendor Master File Johan Is field duals also vendors to announce writes.		1			Scope will be developed after risk assessment completed.	Clased	FY19 project will be closed and removed from databased. Objectives will be re-evaluated before project a successed in FY20.
				parente la sine completibili d'infatta d'infattation in print.							uninet proposa magne 193 EU 1930.
	UKHospital	2019/RA22 UKHC Nursing - Cardovesouse and Thoracic Intensive Care Unit (CVT+CU) - Non- Drampt Overline Compensation	R	To evaluate the units' adherisincess the Fair Labor Standards Adt regulations (FLEAE, Karthucky statutes and University policy regarding rest periods and compensation.			T		Assess adherance to Redural, state and university regulations for non- exempt overtime compensation of CVT-CU employees for January - Hebruary/2018	Complete	Complete - Final communication distributed on \$15/2216. Project will be doeed and whowed from the destributed.
Unannounced		2020 FAG3 UK Heath Care Nursing (Troume & ACSS) Non-Exempt Overtime Compensation	*	To evaluate the units' adherence to the Fair Labor Standards Ad regulations (FLSA), Kertucky statutes and University policy regarding rest periods and compensation.					To review the timekeeping practices, time recording, proper congenuation and compensation monitoring practices of the department reliated to non-exempt overtime compensation.	892019	Feldwork - Analyzing transactions and welfying process weaknesses related to current practices
Partnerships	All University	2020 CP01 Cost Savings Analysis - Purchasing/URHC	U	To evaluate University-adde strategic initiatives for cost-savings.					menul meetings to docure the development of UPUA bolis to validate cost savings.	Orgaing	(XAI to movie proceanent model to validate shork and long-term university-value cost savings. Data is currently being novaleved to measure and validate the first of 54 cost-savings measurest domated.
	College of Medicine	2019 CP08 College of Medicine Expansion Project	-	To examine processes used in the creation of College of Medicine remote campuses.					UKA is responsible for leading the Internal Audit Bork Group to dentify mix and report identified mix appropriately.	Ongoing	Continuing to keep approad of WKU campus operations.
Training and	All University	The Business of Fraud Training	-	To teach participants industry trends, benchmarking data, havd prevention, organizational impact, and havd industry.		- 53			UKA prepares and updates a presentation for each session to include overview of UK's organizational structure and areas that are at high risk for haud.	872019	Neichening scheduled on 8710019.
Seminars	All University	Advanced Fraud Training	-	To teach participants strategies to prevent and detect haud in their units through enhanced controls.	N/a				UKA prepares and updates a presentation for each session to include current haud-events and escalating roles	9262019	Nexthaining scheduled on 5/25/2019.



UK Internal Audit Mission Statement

To support UK in its pursuit of excellence by providing expert analysis and advice to champion the achievement of management objectives.

Appendix A: Risk Factors and Risk Components

Business Risk Factor	Component	Scoring Criteria	Rating Scale
			H = International and National
	(1) Media Coverage	Frequently covered areas increase exposure	M = Local (City and State)
	ivicula coverage	*	L = University outlets
	(2)		H = External to University
	(2) Customer Type	Areas interacting with external patrons increase exposure	M = External to unit
Public	Customer Type	Scheerestoour S vecurios au 🔺 V chair sone	L = Internal clientele***
Exposure			H = International and National
	(3) Current Affairs	Increased public awareness increases risk	M = Local (City and State)
	Current Filling		L = Internal to the University
			H = International and National
	(4) Program Visibility	Areas of prominence increase risk	M = Local (City and State)
	110grain (informity		L = Internal to the University
	(5) State Regulations	Highly regulated areas increase risk	H = Direct University/unit impact
			M = Impact to organizations
-			L = Limited or no impact to University or organizations with ties to University
T (1	(6) Federal Regulations		H = Direct University/unit impact
External Factors		Mandatory regulations increase risk	M = External clientele impact
			L = Limited impact to University, unit or external clientele
			H = Internal or External area with little to no compliance
	(7) Industry Compliance	Compliance decreases risk	M = Internal or External area with limited compliance
			L = Internal or External area with moderate to good compliance
	(0)		H = One source of revenue
	(8) Source of Revenue	Increased number of sources decrease unit risk	M = Two to three sources of revenue: one not stable
			L = Multiple stable revenue sources
	(0)		H = High level of daily transactions
Materiality	(9) Transaction Volume	Higher volume increases risk	M = Moderate amount of daily transactions
	Transaction Volume		L = Sparse amount of daily transactions
	(10)		H = All revenue sources unstable **Stable vs. Unstable
	(10) Budget Breakdown	Limited source reliance increases risk	M = One stable revenue source with the rest unstable
	Dudger Dreakdowii		L = All stable/renewable revenue sources

Appendix A: Risk Factors and Risk Components

Business Risk Factor	Component	Scoring Criteria	Rating Scale
			H = Multiple steps and individuals involved
	(11) Transaction Complexity	Process with higher number of steps increases the risk	M = Moderate number of steps and individuals involved
	Transaction Complexity		L = Appropriate and simple to follow steps with appropriate individuals involved
	10000		H = More than five years since audited
	(12) Internal Audits	The longer the unit has gone without an audit, the higher the risk	M = Two to five years since audited
	Internal Addits	an abon, no agno ao ma	L = Two or less years since audited
			H = More than ten years since audited
Audit Duration	(13) External Audits	The longer the unit has gone without an audit, the higher the risk	M = Four to nine years since audited
	External Adults		L = Three or less years since audited
			H = More than 8 years since audited
	(14) Other Audits	The longer the unit has gone without an audit, the higher the risk	M = Four to seven years since audited
	Ouler Addits		L = Three or less years since audited
	(15) Operational	Process complexity increases risk	H = Involves multiple personnel and multiple tasks (4 or more tasks)
			M = Moderately complex with several personnel involved
			L = Simplified process with appropriate number of personnel involved
	(16) Event Identification		H = Catastrophic/extreme impact to University
Control Environment 1		More incidents will increase risk	M = Significant impact to University
Liiviioiiiient i			L = Limited damage to University
	(17) Key Position Turnover Rate		H = Dysfunctional turnover (costly to University)
		Leadership and strategic changes increase risk	M = Voluntary turnover
			L = Involuntary or Functional (low-performer leaves) turnover
	(10)		H = Essential
	(18) IS Application	System criticality determines risk	M = Operational Enhancement
Control	10 Application		L= Non-Essential
Environment 2	(10)		H = Low monitoring of high-level access personnel
	(19) Data Centers	Centers managed outside of IT increases risk	M = Moderate monitoring of high-level access personnel
	Dua ceners		L = High monitoring of high-level access personnel
	(20)		H = Source and knowledge
	(20) Management Requests	Level of expertise determines risk	M = Customer complaint
			L = Second-hand information (hearsay)