BUILDING AN INFRASTRUCTURE FOR RESEARCH





LOMA LINDA UNIVERSITY HEALTH RESEARCH AFFAIRS Human Subject Research Considerations Amy L. Casey, MBA – Director, Human Research & Compliance

Identify regulations for your specific country

- International Compilation of Human Research Standards
 - Features listing of over 1,000 laws, regulations and guidelines on human subject protections in 140 countries

https://www.hhs.gov/ohrp/sites/default/files/2018-International-Compilation-of-Human-Research-Standards.pdf



Country	Key Organizations	Legislation	Regulations	Guidelines
India				
For an overview of t	the clinical research regulations in India, se	e the ClinRegs report: http://clinregs	s.niaid.nih.gov/single_country.php?c	
General	Indian Council of Medical Research (ICMR): http://www.icmr.nic.in/human_ethics.htm			1. National Ethical Guidelines For Biomedical and Health Research Involving Human Participants (2017): <u>http://icmr.nic.in/guidelines/ICMR Ethical Gu</u> <u>idelines_2017.pdf</u> 2. National Ethical Guidelines for Biomedical Research Involving Children (2017): <u>http://icmr.nic.in/guidelines/National_Ethical_</u> <u>Guidelines_for_BioMedical_Research_Involving</u> <u>ng_Children.pdf</u>
Drugs, Biologics, and Devices	Drugs 1. Central Drugs Standard Control Organization, Office of Drugs Controller General of India (DCGI): http://cdsco.nic.in 2. Indian Council of Medical Research (ICMR): http://www.icmr.nic.in/human_ethics.htm	Schedule Y of the Drugs and Cosmetics Act (2005): <u>http://www.cdsco.nic.in/writereadda</u> ta/Drugs&CosmeticAct.pdf	DCGI: 1. Good Clinical Practices for Clinical Research in India (2001): http://rgcb.res.in/wp- content/uploads/2014/07/Good- <u>Clinical-Practice-Guideline.pdf</u> 2. Permission for Clinical Trials: General Statutory Rules 63(E) 3. Ethics Committee Registration: General Statutory Rules 72(E) 4. A/V Consent – General Statutory Rules 611 (E) (2015) 5. Phytopharmaceutical Drug: General Statutory Rules 918(E) 6. Exemption for Academic Research and Animal Toxicity: General Statutory Rules 313(E) (2016)	ICMR: National Ethical Guidelines For Biomedical and Health Research Involving Human Participants, Section 7 (2017): http://icmr.nic.in/guidelines/ICMR_Ethical_Gu idelines_2017.pdf
	Devices	1		1
	1. Central Drugs Standard Control Organization, Office of Drugs Controller General of India (DCGI): <u>http://cdsco.nic.in</u> 2. Indian Council of Medical Research (ICMR): <u>http://www.icmr.nic.in/human_ethics.htm</u>	Drugs & Cosmetics Act, 1940 (2005): http://www.cdsco.nic.in/writereadda ta/Drugs&CosmeticAct.pdf	1. Rules: Schedule D & K (2014): http://www.cdsco.nic.in/writereaddat a/GSR%20690(E),%2025th%20Sep, %202014.pdf 2. Rules: Schedule MIII (2016): http://www.cdsco.nic.in/writereaddat a/GSR%20640%20(E)%20dated%20 29_06_2016%20-%20Copy.pdf	ICMR: National Ethical Guidelines For Biomedical and Health Research Involving Human Participants, Section 7.7 (2017): http://icmr.nic.in/guidelines/ICMR_Ethical_Gu idelines_2017.pdf
Clinical Trials Registry	Clinical Trials Registry – India: http://ctri.nic.in/			Clinical Trials Registry – India: FAQs: <u>http://ctri.nic.in/Clinicaltrials/faq.php</u>
				Office of Drugs Controller General:

Country	Key Organizations	Legislation	Regulations	Guidelines
United Arab Em	irates			
General	Health Authority - Abu Dhabi: http://www.haad.ae/haad/			Standard Operating Procedures for Research Ethics Committees (2012): <u>http://www.haad.ae/HAAD/LinkClick.aspx?fil</u> eticket=UL7o8f5mukc%3D&tabid=820

Local Oversight

- Institutional Review Board
- Research Ethics Committee
- Ministry of Health



Assess resources

- Infrastructure
 - Social/Behavioral Studies
 - Clinical Research
 - Ancillary support (pharmacy, clinical lab, nursing)
- Faculty and/or Physicians as potential investigators
 - Research background
 - Interest
 - Support staff



Know your population

- Language
 - Multiple languages represented in the community?
- Literacy
- Numbers
 - Number of patients with a specific disease
 - Estimate only 2-8% of patients will ultimately be eligible and consent to participate



Policies and Procedures

- Policies are traditionally driven by regulations
 - Document retention
 - Data Management
 - Privacy



Sample of Policy and Procedure Categories

General Administration	Protocol Management	Human Subject Management	Data Management	Quality Management
Policy Management	Study Initiation	Screening and Recruitment	Data Collection	Internal Audits
Job Descriptions	Ethics Submissions & Communications	Entering Subjects to Study	Data Submission	External Audits
Orientation and Education	Sponsor Communications	Monitoring Study Subjects	Data Maintenance	Study Misconduct
Budgets	Regulatory Documents	Follow up of Study Subjects		Notification of Subjects
Contracts	Subject Records Management	Communication with Subjects		Conflict of Interest
	Drug/Device Accountability	Special Procedures		
	Site Closure			-SOCRA website
LINDA UNIVERSITY H				



LOMA

RESEARCH AFFAIRS

Questions?







LOMA LINDA UNIVERSITY HEALTH RESEARCH AFFAIRS Obed B. Rutebuka, PhD, MSPH, CPIA Director, Research Safety & Animal Welfare

Animal Welfare Act (AWA)

In United States of America, the use of animals in research is governed by laws and regulations on federal level:

- > Animal Welfare Act enacted in 1966.
 - Regulates warm-blooded animals except mice and rats bred for research
 - Administered by United Department of Agriculture (Ministry of Agriculture)



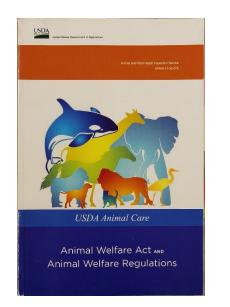
Animal Welfare Act (AWA)

Health Research Extension Act of 1985

• Vertebrate animals funded by Public Health Service (PHS) under Department of Health and Human Services (National Institutes of Health, etc.)



Animal Welfare Act (AWA)



Humane treatment of animals used in research

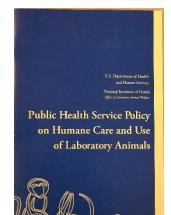
- Bred for commercial sale
- Exhibited to the public
- Commercially transported
- Licensed or registered



Public Health Service Policies

Public Health Service Policy on Humane Care and Use of Laboratory Animals http://grants1.nih.gov/grants/olaw/references/phspol.htm

Endorses US Government Principles for the Utilization and Care of Vertebrate Animals used in Testing, Research, and Training PHS-conducted or supported activities involving animals. It does not affect applicable state or local laws, refers to AWA and requires institutions to use the "Guide"





Public Health Service Policies

GUIDE

LABORATOR

Guide for the Care and Use of Laboratory Animals http://www.nap.edu/catalog.php?record_id=12910

Minimum standards

- Basis for developing and implementing program for animal activities
- Adopted by AAALAC International



- In addition to those federal agencies there is an accrediting agency for institutional animal care and use programs called AAALAC international. Initially incorporated as an American organization in 1965, it is now accrediting institutional programs worldwide (more than 45 countries).
- Both Office of Laboratory Animal Welfare (NIH- PHS Policy on Humane Care and Use of Laboratory Animals) and AAALAC International have adopted the Guide for the Care and Use Laboratory animals as a basis for minimum standards for humane care and use of Laboratory Animals.



- Both federal agencies (USDA, NIH) require that each institutional puts in place an oversight committee known in USA as Institutional Animal Care and Use Committee (IACUC) elsewhere as Oversight Board (OB).
- The most prominent function of IACUC is to approve and authorize the animal use when the request meets the laws and regulations mentioned above.
- Researchers are ethically bound to follow approved procedures in order to comply with laws, regulations and institutional policies.



- Considering the use of animals in an (your) institutional few questions must be answered first and foremost – Regulations, if any, regarding animal use in your country. Those regulations may include:
 - Facility –conditions regarding a location where animals can be cared for and used.
 - Researchers (investigators) who is capable and willing to use animals in research.
 - Oversight Bodies (a committee to review and approve procedures to be conducted so that animals do not suffer unnecessarily)



Questions?



Creating a Compliance Program





LOMA LINDA UNIVERSITY HEALTH RESEARCH AFFAIRS

Jerri McIlhagga, MS, CHRC – Research Compliance Analyst, Human Research & Compliance

The Seven Elements of an Effective Compliance Program

- Standards and Procedures
 - Implement written policies, procedures and standards of conduct
- Oversight
 - Designate a compliance officer and committee
- Training and Education
 - Provide regular and relevant training and education
- Reporting
 - Develop open line of communication for reporting of complaints/incidents; protect anonymity; prevent retaliation
- Enforcement and Discipline
 - Enforce standards through well-publicized and utilized guidelines
- Auditing and Monitoring
 - Conduct internal audits and monitoring on a regular basis
- Investigation and Remediation
 - Respond promptly to reported and discovered non-compliance and require appropriate corrective action plans as needed

~Office of the Inspector General; see Federal Register, v63, n35 (1998)

The Cost of Non-Compliance

- Potentially massive fines and penalties
- Possible repayment of funds
- Bad publicity / Damaged reputation
- Lawsuits
- Operational restrictions
- Increased regulatory scrutiny
- Probation
- Criminal prosecution



The Three Purposes of a Compliance Program

DPrevention

Detection

Correction

Prevention

- Written policies / code of conduct
- Oversight /Compliance Official
- Training / Education

Detection

- Confidential Reporting Hotline
- Monitoring/Auditing/Internal Reporting
- Protection through Non-Retaliation Policy

Correction

- Investigations / Remediation
- Disciplinary Policies

Risk Assessment

An effective compliance program seeks to assess institutional compliance with the complex regulations that govern it. Some of these regulating entities are:

- Department of Health and Human Service (DHHS)
- Office of the Inspector General (OIG)
- Office of Human Research Protections (OHRP)
- Food and Drug Administration (FDA)
- National Institutes of Health (NIH)
- Centers for Medicare and Medicaid Services (CMS)
- Office for Civil Rights (OCR)
- Office of Research Integrity (ORI)
- Select Agents Centers for Disease Control (CDC)
- Export Controls
 - Department of Commerce
 - Department of State
 - Department of Treasury, Office of Foreign Asset Controls (OFAS)
- International Students and Scholars Department of Homeland Security (CIS, CBP, ICE)
- Accrediting Agencies (AAHRPP, AALAAC)

Risk Assessment Continued

Risk Assessment Steps

- Become Informed
 - What have other institutions received penalties for?
 - What types of settlements have been made?
- Determine Government Focus
 - OIG and other regulatory entities release their work plan/focus annually
- Identify and Prioritize Significant Institutional Risks
 - Choose among competing priorities
 - Human Subject Research Protection
 - Financial Conflicts of Interest
 - Animal Care and Welfare
 - Radiation Safety
 - International Student/Scholar Visa Compliance
 - Environmental Regulatory Compliance
- Develop a Work Plan
 - Prevent, manage, reduce, or eliminate risk
- Reassess Risk Annually and as Regulations Change

National Regulatory Authorities

- Argentina: National Administration of Drugs, Food and Medical Technology (ANMAT) <u>https://www.argentina.gob.ar/anmat</u>
- Mexico: Federal Commission for Protection against Sanitary Risks of the United Mexican States (COFEPRIS) <u>https://www.gob.mx/cofepris</u>
- Nigeria: National Agency for Food and Drug Administration and Control (NAFDAC) <u>http://www.nafdac.gov.ng</u>
- Peru: General Board of Medicines, Supplies, and Drugs (DIGEMID) <u>http://www.digemid.minsa.gob.pe/</u>
- United States: Food and Drug Administration (FDA) <u>https://www.fda.gov/default.htm</u>

Create a Culture of Compliance

"A culture of compliance is an environment that recognizes and acknowledges throughout its ranks that addressing compliance is a natural and integral part of research, such as setting up a study, collecting and analyzing data, or the disseminating of results through publications or presentations."

~Mark J. Rudin, PhD.

Compliance should be *informative*, rather than *punitive*.

- Set clear expectations and communicate these frequently
 - Involve stakeholders (administrators, faculty, students, etc.) in strategic planning
 - Promotes good will; encourages buy-in; develops vision
- Provide the highest quality customer service
 - Offer timely, comprehensive support and tools
 - Without this, research staff may bypass policies/procedures
- Empower staff
 - Resources for professional development
- Engage faculty
 - Recruit to serve on IRB, IBC, IACUC, etc.
- Provide education and mentoring at all levels
 - Formal and informal
- Address compliance problems appropriately
 - Consistency; timeliness; due process; follow established policies and procedures
- Promote compliance in the context of economic development
 - Necessary for developing research partnerships, entrepreneurship, infrastructure, instrumentation, expertise
 - Intellectual property, technology transfer, federal funding, sponsor requirements, institution interests must be protected
- Implement a continuous improvement process
 - Collect data by qualitative and quantitative methods
 - Determine if corrective actions plans (CAPs) needed
 - Evaluate success of CAPs and adapt as appropriate

Pre and Post Award





LOMA LINDA UNIVERSITY HEALTH RESEARCH AFFAIRS

Aleta Savage, MBA, CRA - Executive Director



Pre & Post Award

- Staff of 9 with 80+ years combined experience in research administration
- Responsible for proposal submission and award administration
- Submit 200 proposals annually
- Manage 450+ awards
- Ensure we're following government regulations, sponsor and institutional policies...

 ✓ We can continue the institution's mission through research and sponsored funding
 ✓ No one goes to jail



Grant Life Cycle





Pre Award Functions...

- Institutional registrations
- Opportunity Scouting
- Proposal Development and Submission
- Post-submission Sponsor Inquiries





Opportunity Scouting

LOMA LINDA UNIVERSITY HEALTH RESEARCH AFFAIRS

- Sponsored Programs Information Network (SPIN)
- Agency announcements
- Internal funding announcements

						Explorer	earcner		Save		
		1					CATEGORY 1				
			SPIN Category Filters	5		AGRICULTU	IRE/FOOD SCIENCES/FOODS	>			
	World's Largest Database o	f Spansarad	Applicant Location	Applicant Type	Project Type Pro	ARTS/HUMA	ANITIES/CULTURAL ACTIVITIES	>			
25IIV	SPIN World's Largest Database of Sponsored Funding Opportunities		This is used to determine	where the sponsor	r will allow the work to be	BEHAVIORA	AL/SOCIAL SCIENCES	>			
Search v Pre	ferences V Saved Searches	s ▼ Funding Alerts	carrying out an award. If n			EDUCATION	I	>			
	cancer				Select	ENERGY		>			
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▶ 077272	Feasibility Studies to Build Collaborative Partnerships in Cancer Research (P20 Clinical Trial Not Allowed)	National Cancer Institute/NIH/DHHS	AsiaEuropeOceania				AGRICULTURE/FOOD SCIENCES/FC ARTS/HUMANITIES/CULTURAL ACTI BEHAVIORAL/SOCIAL SCIENCES				
▶ 076438	Modular R01s in Cancer Control and Population Sciences (R01 Clinical Trial Optional)	National Cancer Institute/NIH/DHHS					EDUCATION ENERGY ENGINEERING HEALTH AND SAFETY/MEDICAL SCI				
▶ 072029	Basic Research in Cancer Health Disparities (R01 Clinical Trial Not Allowed)	National Cancer Institute/NIH/DHHS					 INTERNATIONAL/GEOGRAPHICAL R LAW 	EGIONS			
▶ 072031	Exploratory/Developmental Grants Program for Basic Research in Cancer Health Disparities (R21 Clinical Trial Not Allowed)	National Cancer Institute/NIH/DHHS	PAR-18-655	19-Nov-2018	275,000.00 USD	+ (3

Proposal Development

- Provide technical assistance on policies, procedures, laws and guidelines
- Build application InfoEd for S2S submissions and provide assistance with entering information and uploading documents
- Provide budget templates and current rates for salaries,

fringe rates, F&A (overhead), etc.

- Approve draft budget and justification
- Assist with responding to sponsor requests for additional information: JIT Information, revised budgets, etc.
- Coming soon...grant writing, scientific editing







Proposal Submission

- Review for compliance with organizational policies and sponsor guidelines
- Finalize proposal and route for institutional approvals
- Ensure proposal is approved by stakeholders and cleared for submission
- Final review completed by Authorized Official (AO) for the organization
- AO submits the proposal on behalf of the organization

...all before the submission deadline

	Updated By: Cindy Dickson @ 19-Oct-2018 11:07:09 AM		Close Print Form History Save Pre Award Transmittal	Complete
BU	DGET (COMPLETED BY PRE-AWARD))		
sh	ote: The numbers reflected here are in aring, but not IDC waivers.	clusive of the entire pro	oject and include subcontracts	and cost
Bu	iget	Period 1	Period 2	Total
	Direct Costs	\$125,000.00	\$125,000.00	\$250,000.00
	SubAwards	\$0.00	\$0.00	\$0.00
	Indirect Costs Total	\$32,500.00 \$157,500.00	\$32,500.00 \$157,500.00	\$65,000.00 \$315,000.00
_				
	Anticipated Start Date 01-Jul-2019	Originating S Fogarty Interna	ponsor tional Center/NIH/DHHS	
			First Year	Total Project
lat	ching or Cost Sharing		0.00	0.00
8	Waiver (Completed by Pre-Awar	4)		
	A Waiver (Completed by Pre-Awar			
	A Waiver (Completed by Pre-Awar Yes INO * The indirect cost rate recovered is		t Planning Checklist.	
		below rates listed on the <u>Budge</u>	t Planning Checklist.	
0:	Yes No * The indirect cost rate recovered is	below rates listed on the <u>Budge</u>	<u>t Planning Checklist</u> .	
0	Yes INO * The indirect cost rate recovered is	below rates listed on the <u>Budge</u> I rd) contributes are requested.		



Proposals filed...

Fiscal Year	Amount requested	Applications submitted	Average amount per request
FY 2014	\$94,043,114	175	\$537,389
FY 2015	\$137,701,431	171	\$805,272
FY 2016	\$146,008,957	182	\$802,247
FY 2017	\$171,885,868	202	\$850,920
FY 2018	\$175,603,901	199	\$882,432
FY 2019 (through September)	\$25,451,302	30	\$848,377

Agencies applied to...





Sponsor	Amount requested FY2018
National Institutes of Health/DHHS	\$97,124,255
National Aeronautics & Space Administration	\$11,051,775
Office of Statewide Health Planning and Development/State of CA	\$7,301,215
Chan Zuckerberg Initiative	\$4,854,913
Health Resources and Services Administration/DHHS	\$3,018,221
Tobacco-Related Disease Research Program	\$1,779,835
Inland Empire Health Plan	\$1,614,600
Department of the Army	\$1,270,068

Post Award Functions...

- Administration and Oversight
- Financial Management
- Reporting
- Audits





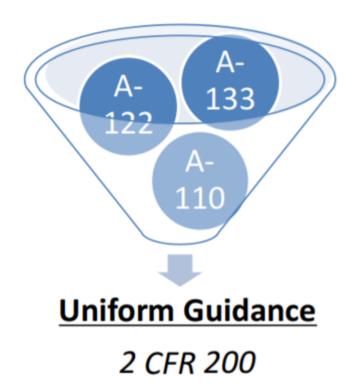


Administration and Oversight

- Post Award compliance with Sponsor regulations/terms & conditions:
 - Effort reporting
 - Cost Sharing
 - Prior approval requirements
 - Program income
 - Fingerprinting/backgrou
 nd checks
 - Suspension and debarment

- Suprecipient monitoring
- Procurement regulations/COI
- Equipment management
- ➢ Key personnel
- Period of performance
- No-cost extension
- Record retention





Every sponsor has unique terms and conditions



Financial Management

• FY2018 – 504 awards

\$21M of expenditures

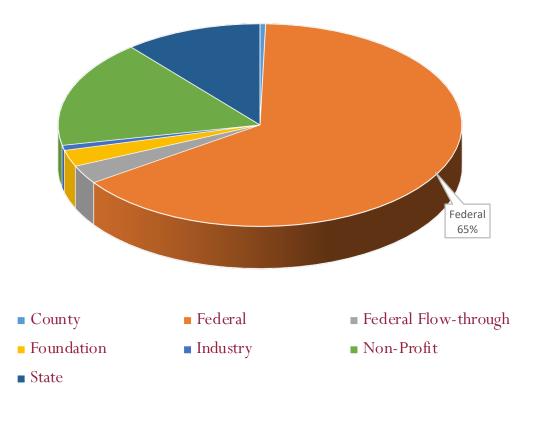
- Financial Management:
 - Cost allowability
 - ➢ F&A/fringe rates
 - Authorized transactions
 - Invoicing and accounts receivable
 - Cash management
 - > 90-day transfers
 - Burn rates
 - Period of performance
 - Budget changes

	COL	LEGES AND UNIVE	RSITIES RATE AG	REEMENT	
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Loma Linda University 24880 Pros Loma Linda ORGANIZATION: Lom			inda Universit	017	
The rates a agreements	E	NT DATE: 6/15	/2018		
		I: FRINGE BE	NEFIT RATES**		
RATE TYPES:	-	FROM	TO	RATE (%) LOCATION	APPLICABLE TO
	PRED.	7/1/2018	6/30/2019	32.50 All	Salaried Personnel
<u>type</u> pred.	PRED.	7/1/2018	6/30/2019	45.70 All	Hourly Personnel
PRED. PRED.	PRED.	7/1/2018	6/30/2019	8.50 All	Temporary Personnel
PRED. PROV.	PROV.	7/1/2019	Until amended	(B)	
	** DESCR	IPTION OF FRIN	IGE BENEFITS RAT	'E BASE:	
	Salaries	and wages.			
applicable	30, 2019			those cited for fisca	
the subawa equipment, tuition re the portion excluded with	rds under t capital ex mission, sc n of each s hen necessa	he award). Modi penditures, chan holarships and f ubaward in exces ry to avoid a se	ified total direct ges for patient of fellowships, part as of \$25,000. Of arious inequity in	period of performance of c costs shall exclude care, rental costs, icipant support costs and cher items may only be the distribution of c agency for indirect	
(A) Use s 30, 2018.	ame rates a	nd conditions as	s those cited for	fiscal year ending June	

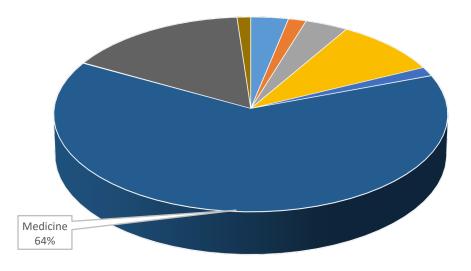


Funding sources

FY2018 - Total amount awarded - source type



FY2018 - Total amount awarded - entity receiving



- Behavioral Health
- Dentistry
- LLUCH
- Medicine
- Public Health

- Cancer Center
- Institute for Community Partnerships
- LLUMC
- Nursing
- San Manuel Gateway College



Reporting

- Submit progress and financial reports to sponsors
- Prepare quarterly cash reports to Federal agencies
- Other metrics and reports per sponsor requirements

Audits

- \$750K+ expenditures must have annual Federal audit
- Subject to IG audits, sponsor audits, site visits



Strategy & Measurements





LOMA LINDA UNIVERSITY HEALTH RESEARCH AFFAIRS Michael R. Samardzija, PhD, JD Vice President for Research Affairs



Inventory

- Expertise
- Interest
- Resources
- Potential collaborators
- Funding opportunities

Align with mission



Forming Research Teams

Health Disparities/Global Community Health Cancer Clinical Neuroscience Mental Health Preclinical Obesity/Diet Prenatal/Perinatal/Neonatal Aging Population Basic



LOMA LINDA UNIVERSITY HEALTH RESEARCH AFFAIRS

Measurements

Capacity – FTEs involved in research Activity – income, publications, graduate students, post-docs Intensity – activity / capacity Efficiency – activities / expenditures Quality – field-weighted citation index



BUILDING AN INFRASTRUCTURE FOR RESEARCH

Contact: researchalliances@llu.edu

