NIDUS Career Development Award Research Mentoring Session Presenters: Tom Gill, MD Nicholas Reed, AuD

	Incholas Reed, Aub
Time	Section
02:29	Key Components
	• Candidate
	Career development plan
	• Research plan
	• Mentor's statement
	• Environment and institutional commitment
02:59	Identifying a Mentor
	Has achieved national recognition for his/her research
	• Track record of mentoring other successful early-stage investigators
	• Provides timely feedback on manuscripts and grants
	• Promotes trainee's national reputation
	• Allows trainee to take credit for his/her successes
04:16	Candidate
	Demonstrate your commitment to a research career (discuss your career goals)
	• Provide evidence of your potential to develop into independent investigator (highlight your
	accomplishments)
	• Usually must commit at least 50%-80% effort to research program and training
	• Often includes letters of recommendation addressing your potential for a research career
05:50	Example of Career Goals
	• The applicant's long-term goal is to develop a career as an independent investigator in aging research
	with a primary focus on(fill in the blank)
	• Immediate goals are:
	• To study care fragmentation in older patients who receive care in multiple settings
	• To obtains additional methodologic expertise with formal coursework
	• To participate in a team research environment, learning all aspects of health services research
	in aging
06:56	Career Development Plan
	Didactic training (typically decreases over time)
	• Supervised research experience (typically increases over time with transition to independence)
	Tailored to needs of individual candidates and concordant with career goals and prior experience
	• Advanced degree is a means to an end
	• Describe "x"-year training program (be specific, plan to acquire new skills/techniques)
	• Outline a plan in which you assume increasing independence (publications and future grant
	submissions)
	Provide time-line and break-down of effort (be ambitious, but realistic)
09:41	Research Plan
	• Specific aims
	• Should clearly articulate what you are trying to accomplish and why
	• Subsequent sections must flow logically
	• Highlight gap in knowledge
	 Provide overall objective, followed by more narrowly focused primary and secondary aims
	 Include at least one testable hypothesis Define critical terms
	• Define critical terms
	Research strategy
	• Significance

	- Describe some endering (Comment forte des modules)
	 Describe scope and significance of study problem Describe scope and limitations of prior
	 Review relevant literature, highlighting potential gaps and limitations of prior research
	 Link each subsection to the proposed research When employed include published reports of potential reviewers
	 When applicable, include published reports of potential reviewers Present concentral model (communication)
	 Present conceptual model (example infographic)
	• Innovation
	 Does application challenge or seek to shift current research or clinical practice paradigms?
	 Are novel concepts/approaches/methods/instrumentation/interventions employed?
	 Do not simply reiterate the significance
	• Approach, including preliminary results
	 Describes plan to accomplish the specific aims to proposed research
	 Provide information: research design, study population, data collection procedures
	and instruments, key variables, analytic plan (including sample size and power
	calculations)
	 Justify all important decisions
	 Consult biostatistician for complicated analyses
	 Highlight specific rigor (quality of data, including reliability and validity) and
	generalizability of anticipated findings
	 Include detailed timeline, denoting projected start and completion of important study
	tasks (should not be unrealistic or overly ambitious)
16:31	Preliminary Results
	 Describe published and unpublished studies
	 Establishes competence and experience in relevant content area
	 Demonstrates capacity to successfully complete research project and present results in clear
	and thoughtful manner
	 May describe relevant work completed by mentor or important collaborator
	Indicate relevance to proposed research
17:35	Mentor's Statement
	 Mentor's qualifications and areas of expertise
	Nature and extent of planned supervision/mentoring
	• Primary mentor (captain of the ship)
	• Other mentors (content, methods, career development)
18:27	Environment and Institutional Commitment
	Document strong, well-established research and training program
	Letter from department chair or equivalent
	• Commitment to candidate's development into independent investigator
	• Assurance that candidate will have sufficient protected time for training and research
	• Faculty appointed is not contingent on receipt of award
	• Availability of adequate resources, e.g. office, lab, administrative support, etc.
19:46	Optimizing Success (ABCD's)
	• Allow sufficient time, e.g. 6 months
	• Revise, revise
	• Get feedback from colleagues, mentor
	 Do not submit prematurely
	 Allow time for Grants and Contracts
	• B e hypothesis-drive
	 Clearly state what impact your work will have on a field
	 Don't be overly ambitious
L	- Don't be overly amondous

	Always include preliminary data
	• B e considerate of reviewers
	• Use readable fonts and leave some white space
	• Minimize abbreviations
	Convey your excitement and enthusiasm
	• Discuss data interpretation and alternative hypotheses
	• Ask a successfully funded researcher to critique your grant proposal before you submit it
	• B e organized
	• Use headings and diagrams to help reviewers get oriented
	• Call program officer (NIH)
	• Don't be discouraged by rejection
	• Proposal should be easy to read and understand
	• Logical, clear, internally consistent
	• Cross-reference
	• Repeat same information, ideas, or themes in consistent way throughout proposal
	• Have section in methods for each specific aim
	• Repeat the aim verbatim at beginning of that section
	Neatness counts
	• Avoid misspellings, grammar errors, and mistakes in references
	Obtain copies of successful grants
	Read instructions carefully
23:11	Useful Resource
	• Gill TM, McDermott MM, Ibrahim SA, Petersen LA, Doebbeling BN. Getting funded. Career
	development awards for aspiring clinical investigators. J Gen Intern Med 2004; 19:472-478.
25:38	"Hearing Loss and the Healthcare System": A K23 Story"
25:54	Mentee: Nick Reed
	His background
28:05	What changed?
	 Sensory loss has been associated with delirium
	• Focusing in on hearing loss
	• Case of delirium: 35-year-old, male, Von Hippel-Lindau (Tumors on spine, brain, lungs),
	recent MI, Neurologically normal
30:18	Enter Mentor Esther Oh
	• Expert in delirium and dementia
	Decided to do something on hearing and healthcare
30:59	Preparing the Grant
	Grant writing training
	• Graduate training in clinical investigation (PhD program)
	• Two grant writing courses (quarter 2 and quarter 4) separated by intense methodology courses
	 Conceptually: writing the framework and then filling in the approach with the
	appropriate course sequence
	• Lots of feedback from peers without any experience in your field
	First draft completed after course
	• Key moment here was <u>"slowing down!"</u>
	• we didn't have the preliminary data or strong outcomes identified (infographics for hearing loss and health care expenditures and utilization) acame back to this data for the grant
	 loss and health care expenditures and utilization) → came back to this data for the grant the mentorship team was not thoughtfully put together
	· ·
	Planning a patient-provider communication QI (figures from grants shown)

	IOM 2001: patient-provider communication is a cornerstone of patient-centered care
	• "care that is respectful of and responsive to individual patient preferences, needs, and
	value"
38:49	Conceptual Framework
	• Showed flowchart/infographic (exposure, mediators, immediate outcomes, long-term outcomes)
39:42	K23 Aims
	• Aim 1: to investigate the association between hearing loss, communication impairment, and hearing
	aid use with health care outcomes in older adults in epidemiologic cohorts
	• Aim 2: to characterize incidence of delirium among hospitalized older adults with and without hearing
	• Aim 3: to refine and assess the feasibility and acceptability of implementing a comprehensive hearing
	loss screening and intervention program to improve care outcomes in the inpatient setting
41:14	K23 is more than science Storm Talling
41:14	 <u>Story Telling</u> A key aspect of writing the candidate background was telling a linear story that showed there was
	• A key aspect of writing the candidate background was terning a linear story that showed there was scientific competence and personal drive to move into this area of work
	 The preliminary studies were a key component of this
41:40	Goal Setting
	• Break into short term (1-5 year) and long term (6-10 year)
	• Short term: what will this grant provide me with (training oriented)
	• Long term: where can I go with the foundation from this grant (science oriented)
	• Use SMART goal techniques (achievable, action-verbs)
	Parallel structure to didactic component of the grant
43:32	Networking
	• Primary mentors (2) and co-mentors (4)
46:08	Mentor Team
	 Spelling out exact responsibilities and how they relate to the grant was important
	Share the load across mentors!
	• Shows an example
	Included roles in the training plan
46:39	<u>Aim 1</u>
	 Successfully added hearing measures to ARIC and NHATS studies
	• Literature published suggesting hearing loss associated with reduced health literacy, reduced
	satisfaction with healthcare, changes in help-seeking behaviors, and unmet health needs
47.01	Shows tables infographics from papers (in relation to all aims)
47:01	COVID Impact
47:22	Successful Relationship
	Different perspectives from different backgrounds
	Regular communication
	 Introduction to network Dr. Oh has a breach for brewing when to such and siving space
10.00	Dr. Oh has a knack for knowing when to push and giving space
48:08	Questions and Answers