

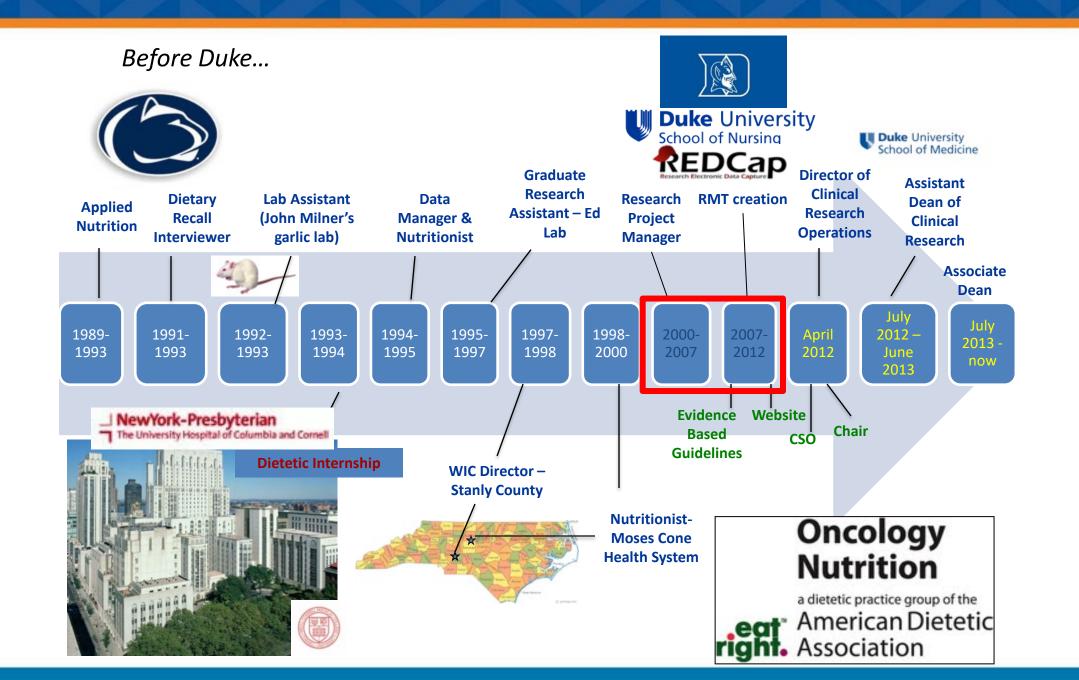
Together We Can Change the Clinical Research Professional Landscape

Denise Snyder Associate Dean for Clinical Research May 19, 2023



Today's outline

- My timeline
- Infrastructure & building trust to support clinical research
- Changing the research culture
- Barriers to recruitment & retention
- Pl engagement
- AMC socio-technical ecosystem
- What's at stake if we don't do something?
- Hiring good humans and talent





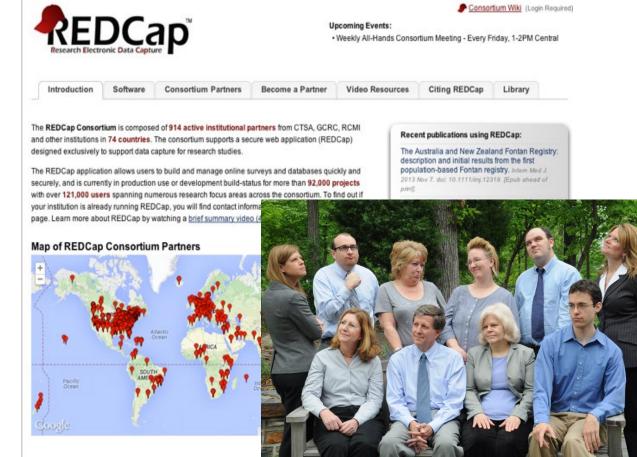
Fulfilling this Role

- Not reasonable for most staff
- Work a lot for a career ladder that was unclear
 - Highly involved in my oncology RD professional group
 - Cross-collaborative team was supportive
 - If I walked away, the house of cards was going down
- It was tough to build the team out under one PI
 - Funding pressures
 - No clear path for staff to grow



Duke had data problems, staffing issues, fragmented infrastructure – I had a team dedicated to investigatorinitiated research in SON

- CTSA formed collaborative partnership with School of Nursing's Research Management Team (RMT)
- School of Medicine explored adoption of the RMT model to address this need



Snyder DC et al. Research Management Team (RMT): A Model for Research Support Services at Duke University. Clin Trans Sci 2012;5(6):464-469



April 2012

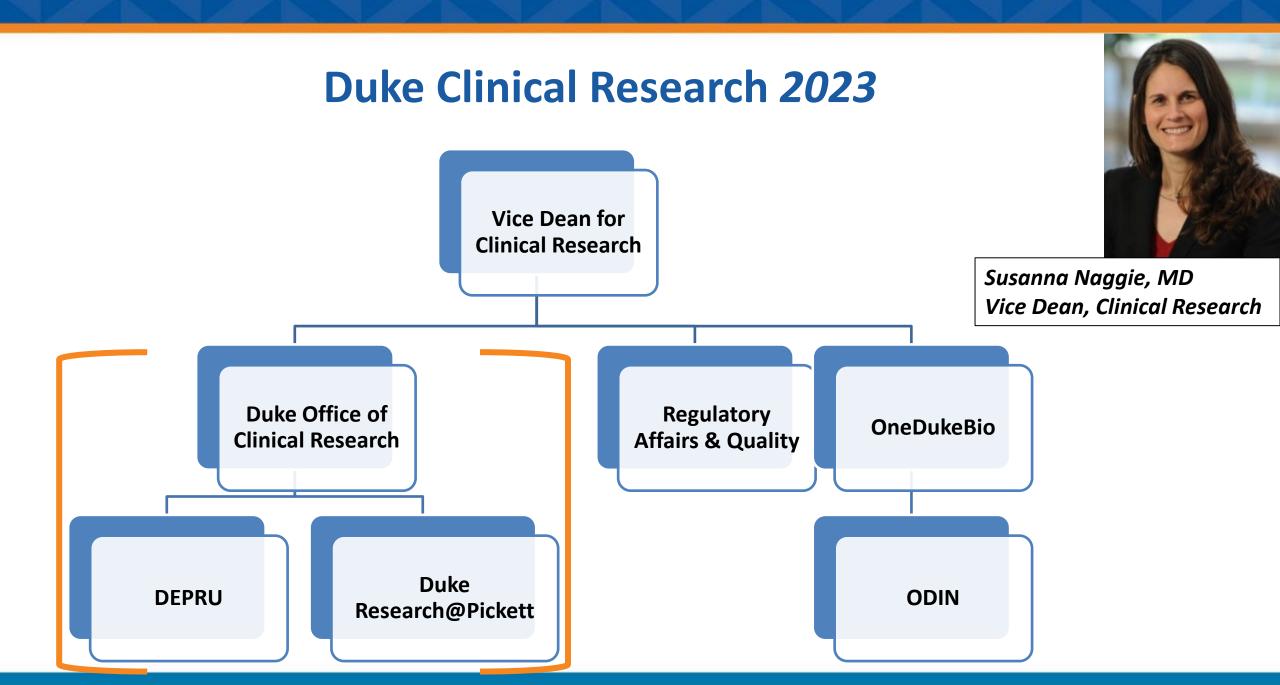
REINVENTING research support...Duke Office of Clinical Research (DOCR)

- Ease the navigation challenges through:
 - Investigator support
 - Study team training and development
 - Process improvement

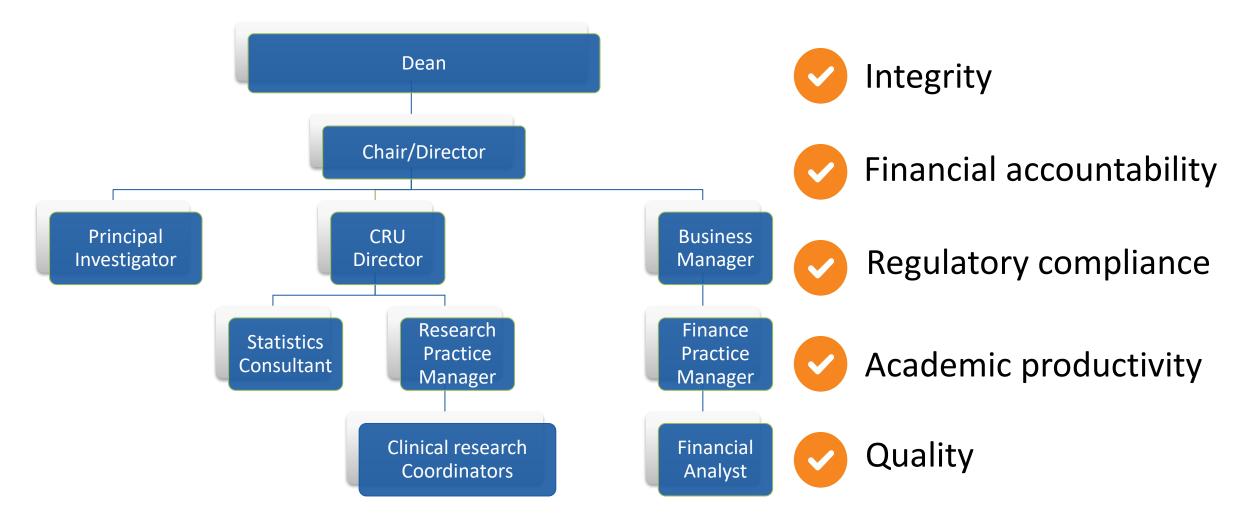


"One stop shop"

Snyder DC, Brouwer R, Ennis CL, Spangler LL, Ainsworth TL, Budinger S, Mullen C, Hawley J, Uhlenbrauck G, Stacy M. Retooling institutional support infrastructure for clinical research. <u>Contemp Clin Trials</u>. 2016 May;48:139-45







Why do we do what we do?



For AMCs, research is a collaboration not a service.

Changing the Research Culture

Put customer service FIRST

††† Inspire staff as a community

Suild partnerships based in trust

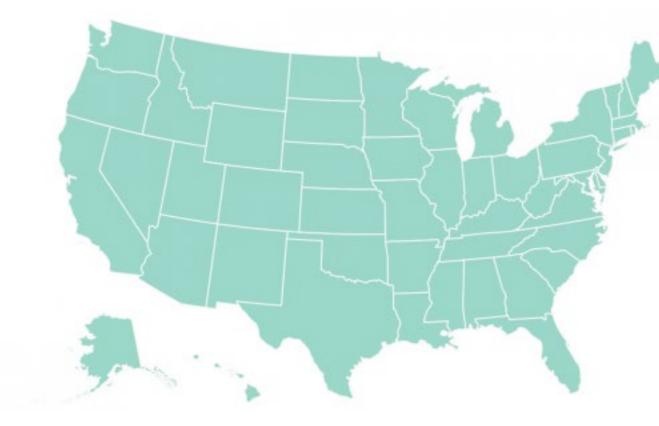
Required an overhaul of our research jobs

Established career ladders



Need for targeted training and professional development

Across the US - for every experienced CRC seeking work, there are 7 jobs posted.



- CRNs 1:10
- Regulatory affairs 1:35

https://myscrs.org/resources/sites-now/exploring-the-current-clinical-workforce/

Barriers to successful recruitment and retention of a highly trained and diverse CRP workforce

Human Resource (HR) department gaps

Lack of resources

Lack of institutional support

Poor Principal Investigator engagement

) Training and professional development gaps

Outreach to potential new applicants, need for a diverse workforce

COVID-19 pandemic

Fig. 1. Key barriers.

Knapke, J., Snyder, D., Carter, K., Fitz-Gerald, M., Fritter, J., Kolb, H., . . . Jones, C. (2022). Issues for recruitment and retention of clinical research professionals at academic medical centers: Part 1 – collaborative conversations Un-Meeting findings. Journal of Clinical and Translational Science, 6(1), E80.

PI engagement – what are the issues?

- No time to manage staff
- May not understand CRP job titles, duties, or the need for a career ladder "cogs in the wheel"
- May need training on creating an inclusive environment that values CRPs as members of the research team
- High quality staff can positively impact regulatory compliance, data quality, and publication quality
- Inconsistency in the promotion of CRPs, moving staff between tracks based on "cost"

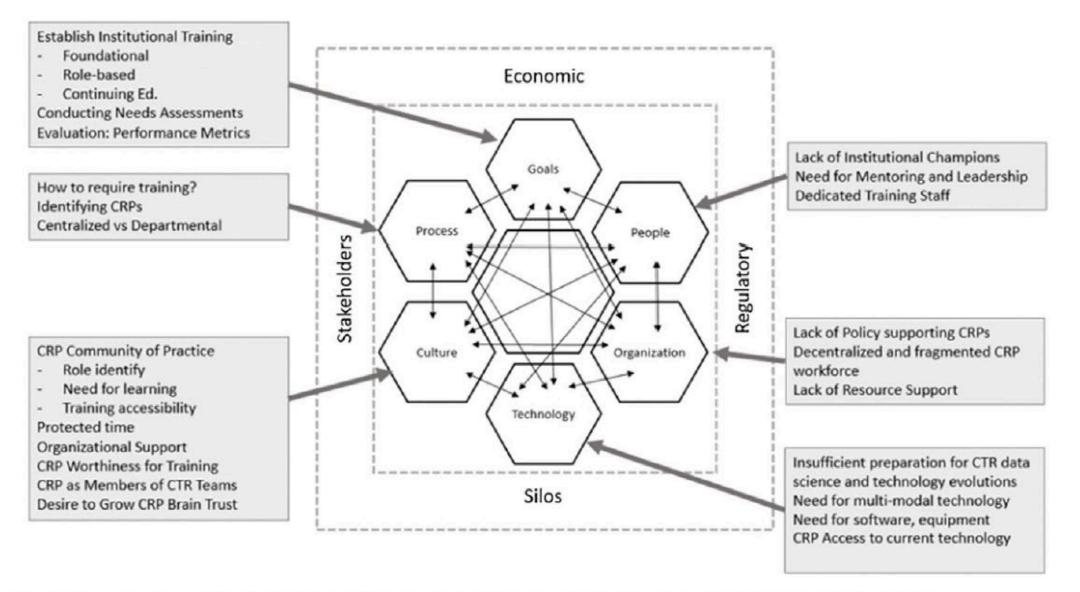


Fig. 3. Addressing clinical research professional (CRP) training and role development needs in the academic medical center socio-technical ecosystem.

Knapke, J., Jenkerson, M., Tsao, P., Freel, S., Fritter, J., Helm, S., . . . Jones, C. (2022). Academic medical center clinical research professional workforce: Part 2 – Issues in staff onboarding and professional development. Journal of Clinical and Translational Science, 6(1), E81.



As an AMC, how do you hire, train, onboard if you don't know who the clinical research professionals are?

Creating a Professional Identity



2014

Joint Task Force for Clinical Trial Competency publishes competency framework with 8 domains. Duke adapts to 12 competency-based job classifications for clinical research professionals.



2016

Clinical Research Professionals Working Group (CRPWG) maps Duke CRPs into job classifications, professional network (RPN) is established, Title Picker Launched.



2018

CRPWG launches advancement pathway. WE-R is established as a program to maintain CR professional development initiatives.



2019

WE-R begins systematically aligning training with competencies and identifying training gaps.



WE-R launches comprehensive onboarding plans.

2021



2022

WE-R launches new hire co-horts.

2014 – Taking Hold – A Path Forward



Sonstein S, Seltzer J, Li R, et al. Moving from compliance to competency: a harmonized core competency framework for the clinical research professional. Clin Res. 2014;28(3):17–23.

Two Years of Groundwork

+ Navigating the Ethics Review Process (IRB)

+ Sponsor/Regulatory Reporting

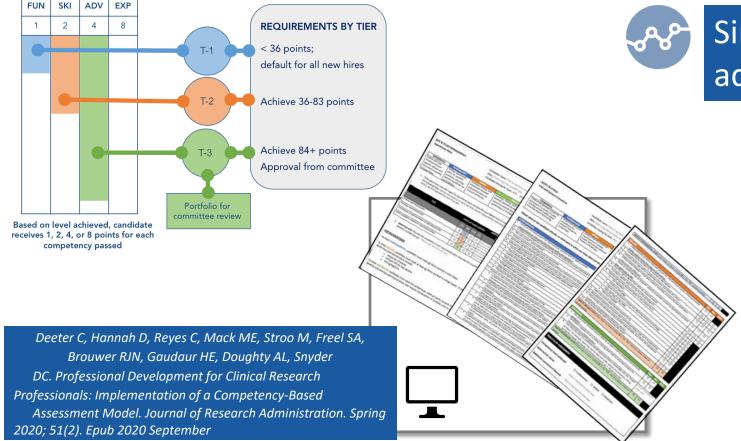
What did we aim to do?

- Updating job descriptions so they more accurately reflect responsibilities
- Identifying competencies and performance criteria within the classifications
- Defining career ladder and career progression
- Ensuring staff members performing clinical research functions are appropriately classified
- Mapping currently held positions into reworked job classifications
- Incorporating job classifications across Schools of Medicine and Nursing for new hires in these roles

2016 Workforce Mapped, Research Professionals Network (RPN) Title Picker Launched



2018 Tier Advancement – Focus on Professional Development



Since 2018, **281** staff have tier advanced

Components:

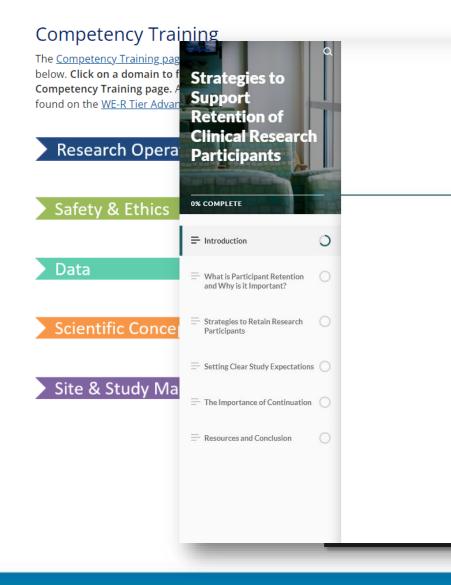
- Driven by employee
- Build competencies without position change
- Objective measures & proctored testing
- Tier 1 to 2 **3% raise**
- Tier 2 to 3 **5% raise**

Building Community

"I am grateful for your and WE-R's leadership in this program, which supports Duke research professionals like myself and therefore our institution as a whole. I feel it has done a lot to shape our research culture and establish high standards in ethics, professionalism, leadership, compliance, effective and harmonious work, scientific integrity, successful research operations, equity & inclusion, and good clinical practices!"

-Charlotte

2019 Align Training with Competencies



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How has WE-R Helped?

- Expand to other areas of clinical research support
 - Clinical Research Data Management (underway) expected end of calendar year
- Ability to pivot people for immediate research (COVID-19)
 - Floater employee option in DOCR

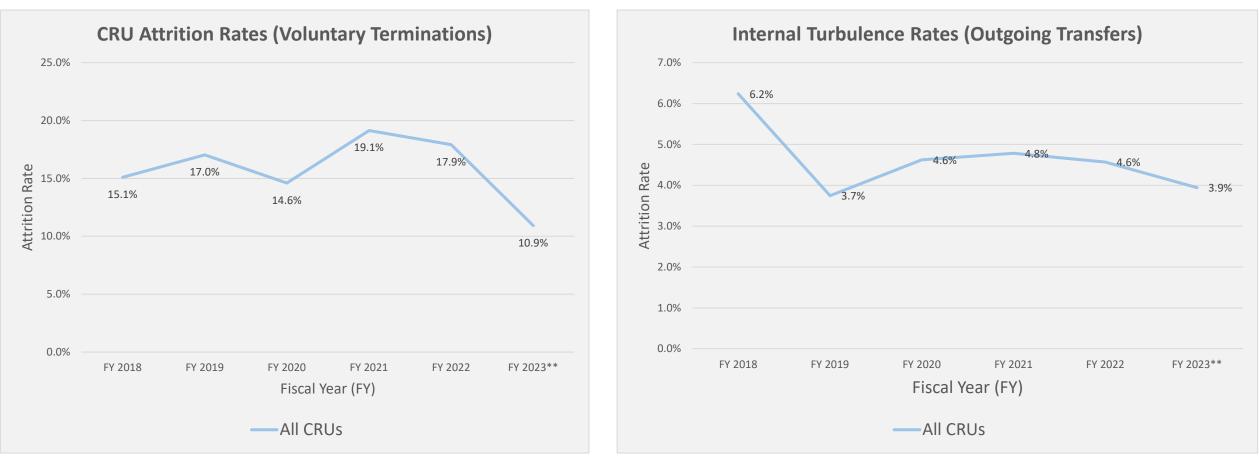
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- Match project based on skill inventory from CRPs
- Dissemination of information and training easily identified through 12 job classifications
- Employees recognize advancement and growth opportunities
- Budgeted support for WE-R program from CRUs, DOCR, HR & Compensation
- FY22 Market analysis across the WE-R jobs led to 9% adjustment for all CRP positions

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How has WE-R Helped?

3-year prior avg 23%



Working with HR

- Make them a partner in the process!
- Bring school and/or enterprise-wide HR in early
 - Allow them to help you frame different functional roles
 - Build leadership support and visibility to the project
- Make room and provide a seat at the table
 - Involve in implementation costing
 - Provide HR data (i.e. Turnover, time to fill, recruitment challenges) to support the cause
- Insight into how to mirror or customize existing processes in other career pathways or clinical ladder processes

What's at stake?

Generating medical evidence – stalls out

Clinical Trials Volume 20, Issue 1, February 2023, Pages 3-12 © The Author(s) 2023, Article Reuse Guidelines https://doi.org/10.1177/17407745221147689



Perspective

Now is the time to fix the evidence generation system

Robert M Califf 厄

Abstract

Despite enormous advances in biomedical science, corresponding improvements in health outcomes lag significantly. This is particularly true in the United States, where life expectancy trails far behind that of other high-income countries. In addition, substantial disparities in life expectancy and other health outcomes exist as a function of race, ethnicity, wealth, education, and geographic location. A major reformation of our national system for generating medical evidence—the clinical research enterprise—

Coming SOON!

Freel, SA, Snyder DC, Bastarache, K, Jones, CT, Marchant, M, Rowley, L, Sonstein, SA, Lipworth, K, Landis , S. Now is the time to fix the clinical research workforce crisis. Accepted for publication in Clinical Trials 2023

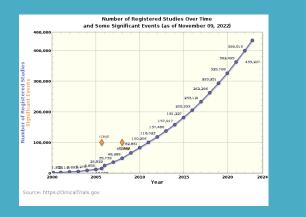
A 'Perfect Storm' of Issues

Professional Identity	Lack of a clear professional identity, and lack of recognition as a profession by the US Bureau of Labor & Statistics.
Infrastructure	No standardized pathway into the profession and baseline terminology for clinical research roles, no centrally funded training programs or continuing education, and no mandatory qualifications.
Recognition (VALUED)	'Hidden in plain sight': non-faculty clinical research professionals are generally overlooked as key stakeholders in the clinical research ecosystem.
Remuneration	In contrast with the biotech industry and CROs, pay ceilings at academic medical centers, dictated by static research grants, act as a deterrent to recruiting and retaining staff.
Recruitment	Highly varied hiring requirements and barriers to recruitment, often based on number of years of experience rather than competencies, are further stalling an already strained recruitment process.

The Pressure on the Workforce is Set to Intensify Even Further

Growing number of trials

The number of clinical trials registered worldwide has risen exponentially (from 2,119 in 2000 to 433,207 in 2022) and shows no signs of slowing.¹



Increasing protocol complexity A study by the Tufts Center for the Study of Drug Development noted a threefold rise in the number of data points collected in Phase 3 trials over the past decade.

In addition, for all trial phases, an increase in the mean number of protocol deviations and substantial amendments, which are notoriously labor-intensive.^{2,3}

Increasingly specialized roles

Surging expectation for trials powered by innovative technology (eg telemedicine, internet-enabled patient wearables) has created new requirements for specialist skills.

In 2022, there was a 28% increase in demand for decentralized clinical trials (DCTs) vs 2021.⁴

In July 2022, close to 30% of all new postings for CR roles didn't fit a traditional job description.^{5,6}

<u>1. https://www.clinicaltrials.gov/ct2/resources/trends; 2. https://acrpnet.org/2021/05/05/clinical-trial-complexity-levels-show-unrelenting-increase/; 3. https://www.centerwatch.com/articles/25462increasing-protocol-complexity-requires-adapting-quality-metrics-tools; 4. https://www.clinicaltrialsarena.com/analysis/2022-forecast-decentralised-trials-to-reach-new-heights-with-28-jump/; 5. https://myscrs.org/resources/sites-now/exploring-the-current-clinical-workforce/; 6. Johnson E. Contemp Clin Trials 2022;120:106878.</u>

Top Priorities

Develop identity and increase awareness of the profession

Support clinical research industry-wide acceptance of entry-level talent

Shift focus from duration of experience to competencies

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Create clear pathways for new workforce entrants to gain relevant experience and become aware of truly entry-level jobs

Generate formal communications and public visibility of the workforce crisis

Adapted from Clinical Research Workforce Development Global Roundtable, January 12, 2023

When the CRP decides to leave

What now?

Departures Lead to Hiring Opportunities

- Examine your team's needs
 - What's missing?
 - What has changed?
 - What initiatives are planned?
 - Is it time to backfill? Do you pause? Rework the job?
- Reassess position
 - What do you want this person to do?
 - What strengths or talents are you looking for?
 - What are the team dynamics?

Recruitment & Hiring – What About "Talent" ?

- **Talent definition:** natural aptitude, an inner quality emerges without effort
- Skill definition: an acquired ability, learned with effort
- Research suggests genes play a role forming the way individuals respond to stimuli and seek out specific experiences.
- The environment is equally important for talent identification and development. A talent becomes an enduring ability only with effort and practice.

Talent (& Skill) Examples

- Writing
- Researching
- Brainstorming
- Inspiring
- Self-managing
- Networking
- Innovating

- Listening
- Negotiating
- Programming
- Rational thought, emotional intelligence, visual thinking, decision making, and situational intelligence
- Exceptional intuition and skill

Recruitment & Hiring – Talent

- Be specific about talents and skills you're looking for.
 - Identify all the skills that will help an employee to shine in a particular role.
 - Distinguish between must-haves and nice-to-haves.
- Look beyond typical requirements.
 - Previous work experience and education are not always reliable criteria.
 - Look at hobbies and interests in candidates' resumes.
 - Turn to your network for referrals.
- Interviews matter.
 - Prepare, prepare, prepare.
 - Ask all candidates talent- and skill-relevant questions.
- Identify candidates' mental strengths.
 - Look for resilience, grit, and positive mindset.
 - Use the <u>STARR model</u> (Situation, Task, Action, Result, and Reflection).
 - Ask behavior focused questions.

Hiring – General Considerations

- Relevant education and experience
 - Do you need someone with a background in clinical research, can you teach the skills? Team-oriented? Systems knowledge (OnCore, eReg, REDCap, <fill in your software>?)
- Strong communication skills
 - Role requires regular interaction with study research teams and other staff across your AMC (e.g., IRB)
 - Excellent verbal and written communication skills
 - Able to effectively communicate complex information
- Attention to detail
 - Documentation, date entry, regulatory, protocols...details matter
- Adaptability
 - Hire individuals who are adaptable and open to new ideas and approaches.
 - Consider individuals who have a willingness to learn and grow in their role
- Ethical conduct
 - Hire individuals who are trustworthy and have a strong commitment to ethical conduct

Hiring – What else matters? Good Humans

- Our team matters we do not want to hire people who think they are better than the team. We are better together.
- We believe research changes care everyone's role in clinical research elevates our ability to conduct trials that change the standard of care.
- Good humans are kind to all people.

Onboarding

- We have a central SOP that we follow for all team members to onboard
- Individual teams have job specific training plans
- Combination of independent learning and 1:1 training side by side with a mentor
- Daily touch points, especially in this virtual world
- Quickly make them feel part of the team
- Give them a soft landing!

Be Engaged - Encourage Development - Prevent Burnout

- Take the lead in change
- Provide opportunities to present internally start small with team meetings
- Look for innovative improvements that can be shared internally
- Consider submitting abstracts for posters or presentations
- Encourage staff to get involved in external consortiums, peer AMC groups
- Oversee workload encourage communication

Make Clinical Research More Human – What Matters?

- Establish meaningful connections through the work we do
- Share the same values
- Compensate fairly for work and above-and-beyond efforts
- Assist in building in their skills
- Provide necessary support to flourish without burning out

Takeaways

- Timing of infrastructure & building trust
- Changing the research culture
 - Barriers to recruitment & retention of staff
- Consider competency-based jobs with career ladders
- How do you get involved?
- What's at stake if we don't do something?
- Hiring good humans and talent



Thank you!

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