# Principles of Recruitment: Human Subject Recruitment Strategies, Tactics & Resources



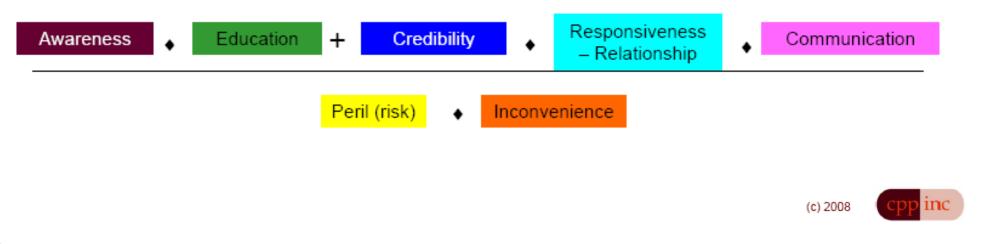
#### "No one is as interested or enthusiastic about your study as you are."





#### From the Patient Perspective

#### Clinical Trial Participation is a function of





#### **Strategies**

There are 3 keys strategies to keep in mind when developing a recruitment and retention plan:

- 1. Feasibility Assessments
- 2. Establish and manage relationships
  - i. Know your recruitment sites/partners
  - ii. Know your subjects
- 3. Multiple approaches



#### **Feasibility Assessment**

- Poor enrollment is due to poor recruitment plans, but also other factors such as poor study design
  - Keep the study as simple as possible
  - Remind participants of the "big why"



#### **Feasibility Assessment**

- Think about feasibility from the site perspective.
  - How many potentially eligible patients?
  - How many would be interested in study?
  - What is the staff's experience with research participation?
  - What is the participant's perception about study risk?
  - How much can the study team realistically support recruitment efforts?
    - Administrative burden
  - What are the staff's training needs?
    - What is the level of understanding of research participation across the study team



#### **Feasibility Assessment**

- Use your past recruitment and retention experience to create a plan.
  - What has worked (and not worked) in the past?
  - What rates are realistic?
    - Track and use your data
    - Use evidence from the literature
  - Identify new opportunities to identify participants
    - Future research registries
    - EMR
    - Social media

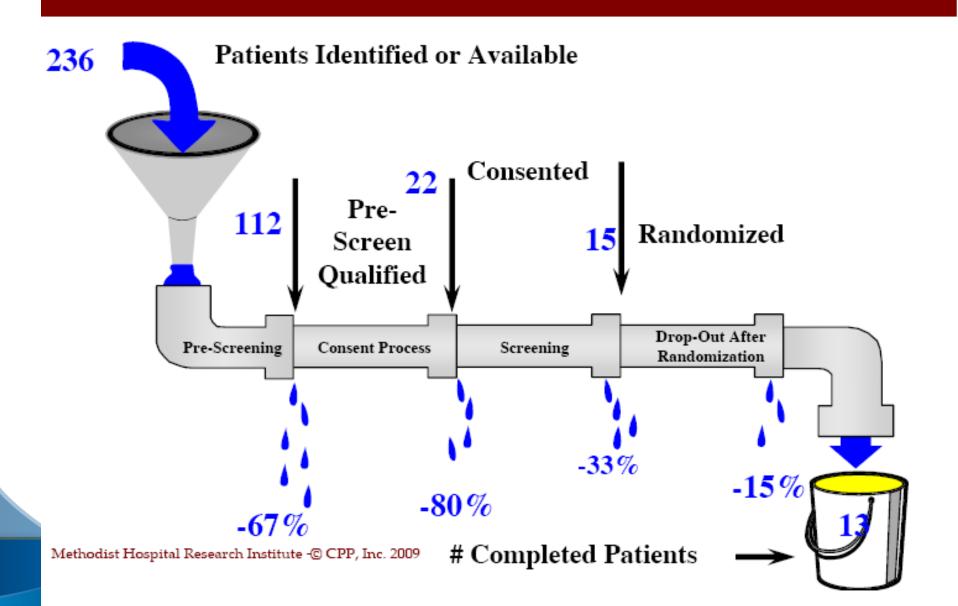


#### Examples of Feasibility Assessments



#### Systematically Estimating Enrollment:

The "Leaky Pipe" Analysis



"Top Down" Funnel Calculations		
Funnel Parameters and Stages	Values	
Enrollment Period (months)	9	
# of Sites	20	
# Patients at a Given Site with Diagnosis or # Patients Available Across All Sites	200	
% Lost During Pre-Screening	0.33	
% Decline to Participate	0.8	
% Lost During Screening	0.65	
% Drop-out Post Randomization	0.25	
Funnel Calculations	Projected Values	
Patients Available	200	
Pre-Screen Qualified	134	
Consented (Enrolled)	27	
Randomized	9	
Completed	7	
# Enrolled / Month	3	
Per Site Estimates (approximate)	Overall Targets	Monthly Estimates
# That Will Need to Be Identified	10.0	1.1
# That Will Need to Be Consented	1.3	0.1
# That Will Need to Be Randomized	0.5	0.1

Reverse or "Bottom Up" Funnel Calculations					
Funnel Parameters & Stages	Values				
Enrollment Period (months)	9				
# of Sites	20				
# Patients That Will Need to Be Identified	768				
% Lost During Pre-Screening	0.33				
% Decline to Participate	0.8				
% Lost During Screening	0.65				
% Drop-out Post Randomization	0.25				
Funnel Calculations	Projected Values				
Patients That Need to Be Identified	768				
Pre-Screen Qualified	514				
Consented (Enrolled)	103				
Randomized	36				
Completed	27				
# Enrolled / Month	11				
Per Site Estimates (approximate)	Overall Targets	Monthly Estimates			
# That Will Need to Be Identified	38.4	4.3			
# That Will Need to Be Consented	5.1	0.6			
# That Will Need to Be Randomized	1.8	0.2			



#### **Recruitment Funnel**

**Potentially Eligible Identified as Potentially Eligible Referred to Study** (self, provider, other) **Screening Eligibility Confirmed Agrees to Participate** Consents **Starts Study Continues Study Completes Study** 



### **Example Feasibility**

- Title: Comparison of low dose and high dose folic acid in women trying to conceive or early in pregnancy (months)
- Target Enrollment = 200 women age 18-45 years
- Statistical data:
- Monroe County population=749,606
  - 51.7% is female
  - 16% is black or African-American
  - 7% of population is ages 18-45
  - Fertility rate: 63.0 births per 1000 women aged 15-44 years per year
- 30% of participants fail pre-screening.
- 20% will consent and enroll.
- 10% of subjects enrolled will drop out.



#### **Recruitment Funnel**

Potentially Eligible = 744,344 Female = 749,606\*51.7% = 387,546 Aged 18-65 = 387,546\*39.4% = 152,693 Number of pregnant women = 245,704/11.1 = 13,756 Screening = 22135\*70% = 9,629 Consents = 15494\*20% = 1,926 Completes Study = 3098\*.90 = 1,733 Recruitment rate-Would need to reach 11.5 % How many participants of target population to per week or month do you need? get 200 participants.

http://www.towncharts.com/New-York/Demographics/Monroe-County-Ny Demographics-data.html

https://www.health.ny.gov/statistics/chac/birth/b42\_26.htm

https://www.census.gov/quickfacts/table/PST045216/36055,36



#### **Recruitment Data**

Set up data collection such that you can answer

- where in the pipeline/funnel you are or are not having success – where is the fall off
- if you are recruiting from different sites what is the pattern from different sites
- if multiple enrollers are involved what is the pattern across enrollers
- if recruitment happens different days of the week or in different time periods (e.g. days, evenings) what is the pattern across these different periods
- if you need certain underserved populations, what is the pattern of their recruitment and retention



#### Data Use

- Recruitment and retention not viewed as a science
  - Not viewed as a problem to be solved with data
- Recruitment data are monitored but not analyzed
  - No data, missing data or data collected not useful, usable
  - Lack of data is a missed opportunity to help inform future studies
- Figure out where people heard about the study
  - Track success from each source
- Systematic plan
- Systematic evaluation
- Resource
  - Tracking Log



## No data?

- Learn what has worked for others
- Talk with those in your field
- Conduct lit search
  - <u>http://www.ncbi.nlm.nih.gov/pubmed/?term=%28patient+selection+OR+res</u> <u>earch+subjects%29+AND+%28randomized+control+trial+as+topic+OR+cli</u> <u>nical+trial+as+topic+OR+biomedical+research+OR+multicenter+studies+a</u> <u>s+topic+OR+retrospective+studies+OR+prospective+studies+OR+case-</u> <u>control+studies+OR+cohort+studies+OR+human+experimentation+OR+he</u> <u>alth+surveys+OR+questionnaires%29+AND+recruit\*+[ti]</u>
- Test your ideas
  - Conduct focus groups with potential participants
  - Conduct surveys



## **Relationship Management**

Know your recruitment sites/partners

- What are their barriers/facilitators
- Is everyone on board?
- Be visible/follow-up
  - Appreciate them



#### **Relationship Management**

Know your (potential) subjects

- Do they even know about the study?
- What are their participation barriers/facilitators
  - Logistic, attitudinal
  - Do they understand the study requirements?
- Appreciate them



#### **Multiple approaches**

- Have a PLAN!
- Best and worst case enrollment scenarios?
  - Expect attrition
- One method is not enough
  - ResearchMatch.org
  - Track success from each source



# Marketing and Advertising

- RECRUITMENT as a form of HEALTH COMMUNICATION
  - Establish trust
  - Convey a meaningful and informative message
  - Empowering people in their search for treatment or ways to improve their health
  - Understanding your audience
  - Understanding the health challenges they face
  - Building an identity (branding)
  - Providing information that is easily accessible and understood.



# Marketing and Advertising

- Use the four Ps
  - Product, price, place, promotion
- Product
  - Participation
  - What are the benefits of participating
- Price
  - Always a price
  - · Minimize what the subject believes he or she must pay
- Place
  - Locate the recruitment, enrollment and study participation at sites that reach your audience
- Promote
  - The recruitment and study using creativity and through channels and tactics that maximize contact with and interest among the target population



# **Marketing and Advertising**

- Newspaper
- Radio
- Television
- Bulletin Boards
- Posters
- Flyers
- Patient Information Letters
- Websites
- Social Media
- Health Fairs
- Craigslist
- Pocket cards for physicians

#### Do not rely on only one method!!



## **Marketing Budget**

- Recruitment costs are almost never budgeted
- Plan ahead and include in grant
- Size the recruitment effort for the size of the budget
- Timing is everything, time ads with events



# **Duke Center for Living-STRRIDE 1**

Advertising Method	Percent screened/enrolled	Screening Time per person (minutes)	Ad cost per person (\$)
Local Newspaper	8%	148	48
Special Event Ad	26%	47	35
Flyer	16%	75	18
University newspaper	13%	92	0
Radio	7%	180	190
TV	3%	353	205
Personal Referrals	17%	70	0
Other	2%	688	333
Total	10%	120	40



#### **Recruitment Materials and Subject Payment**

- Compensation is an important for successful recruitment:
  - Investigators must adequately describe all recruitment methods and plans for subject payment
  - Recruitment materials and payment methods must meet the standards outlined within your institution's IRB guidelines.
  - Investigators must submit to the IRB any revisions to recruitment material or plan prior to implementation



#### **Recruitment Materials and Subject Payment**

- Include in your IRB application
  - Ad info
  - Mode of communication
  - Final copies of printed materials
  - Final audio or video scripts
- Ensure that materials do not:
  - Imply a favorable outcome
  - Use exculpatory language
  - Emphasize payment
  - Do not promise free payment
  - Do not use terms new treatment, medication or drug
  - Do not make claims not in line with FDA labeling



#### Ad Design-Have "The Right Stuff"

- Why do it?
- Who should do it?
- How do you do it?



#### GIVING LIFE TO POSSIBLE

#### Have You Used Propecia for Hair Loss?

If you are a male between the ages of 18 and 50 and <u>have used Propecia for male baldness</u>, you could be eligible for a clinical research study.

Researchers at Baylor College of Medicine are looking at possible Propecia-related side effects.

Participation in the study will require one visit.

To see if you qualify, please email Sharon Harrison at sharons@bcm.edu or call (713) 798-2240.



# Living with MS?

Other people like you who are being treated for their MS with a disease-modifying therapy have volunteered to join a program to better understand the long-term safety of these treatments.

You may qualify to participate in this voluntary research study if you:

- Are between the ages of 18 and 65
- Have been diagnosed with relapsing MS
- Have recently started taking a disease-modifying therapy

Talk to your doctor to learn how you can participate or for more information call:

#### 601-420-5810

Precise Research Centers Flowood, MS





## Registries

- Websites where participants can register if they are interested in research
  - UR Health Research website
- Resources
  - Local Registry
    - <u>http://www.urmc.rochester.edu/health-research/</u>
    - Flag created in medical record and can be included in i2b2 report
  - Research Match
    - <u>https://www.urmc.rochester.edu/research-subject-</u> <u>recruitment/recruitment-tools/research-match.aspx</u>



#### **Social Media**

**Guidelines for Research Using Social Media** 

- Social media communications (ads, onlinediaries/surveys, text messages, info about study progress must be reviewed by the RSRB)
- Make sure you are using a URMC Marketing approved tool or site
- Avoid use social media to collect PHI
- Measures should be taken to ensure privacy



#### **Social Media-Pros**

- Convenient
- Subjects often want to discuss their experiences
- May encourage enrollment and retention
- Makes subjects feel like they are part of a community and their contributions are recognized
- Good for recruiting populations that are difficult to reach
- Broader access



## **Social Media-cons**

- Information can be forwarded on to people who are not targeting
- People may be willing to say things anonymously they would not say in person
- Examples of things that could confound a study if on-study participants share info on-line:
  - Attempts to unblind treatment assignments
  - Encouraging use of off-study lab testing
  - Encouraging non-adherence to study regimen
  - Falsifying eligibility status
  - Misinformation on adverse event profiles
  - Providing medical advice, discouraging reporting to investigators



#### What to do?

- Ask subjects not to participate in public discussions during the study
- Add language addressing this into your informed consent



# Companies that will help with social media

- YuziLabs/ studypages.com
  - Building platform that can handle multiple sites and also has a dashboard that tracks your recruitment and drives traffic to the site using social media
- Example of an ad
  - <u>https://studypages.com/s/angi-anorexia-nervosa-genetics-initiative-918724/?donottrack=1</u>



# **Community Engagement**

- Community engagement is essential to increasing diversity in research participation to determine effective treatments and prevention strategies for populations most adversely impacted by health inequalities
- Connects investigators with local coalitions and community based organization
- Start early in the research process



# **Community Engagement**

- Some principles to think about when engaging in community partnerships
  - It's all about building relationships
  - Do "With" Not "For" or "To"
  - Be responsive to community partners' priorities and perspectives
  - Plan if possible for a long term engagement
  - Mutual benefit and respect
  - Share findings with the groups that help
  - Collaborative from start to finish



# **Recruiting underserved populations**

- Improving recruitment
  - Raise awareness through outreach programs
  - Target publicity campaign to group of interest
  - Find out why they do not want to participate
  - Use incentives such as
    - financial compensation
    - therapeutic interventions
    - provision of health services
    - provision of transportation services to facilitate participation



#### Retention

- Focus on retention must start early
- Evaluate protocol for difficulties
  - Look at pressure points for gaps in schedule
  - Identify places in study schedule where participants may experience more stress, lose interest, need extra info, encouragement or support
  - Consolidate visits where you
  - Don't make any one visit too heavy
- Avoid large gaps between study contacts



# Think about the place where participants are engaged.

- Look at staffing/facility needs
- What can be done on site or off site
- Create comfortable atmosphere; physically appealing clinic with parking aplenty
- Provide a map
- Tell to bring a book if there will be down time; clarify expected wait times
- Water cooler, Wi-Fi, magazines
- Create clear consistent pattern of appointments (same room, same start and end times)
- If participants are coming in for fasting blood draws don't drink coffee in front of them and have snacks for afterwards
- Keep communication open (hotline, email, website, social media)



# Recognize when subjects may be ready to flee

- Missed appointments
- Unreturned phone calls
- Complaints about procedures
- Too busy to schedule appointments
- Lack of enthusiasm



## **Methods to Enhance Retention**

- Offer convenient physical access and appointment times
  - Take into account vacations, school breaks, holidays
- Frequent communication
  - Send newsletter
  - Provide written or telephone contacts between visits
  - Remember special occasions
- Maintain contact with PCP (If applicable)
- Assist with transportation
- Compensation
  - Bonuses at key time points
- Sympathize with problems
- Respond to complaints



# Finding participants lost to followup

- Ask each participant to provide name and address of an individual who does not live with them, but likely to know their whereabouts
- Obtain multiple emails
- Obtain multiple phone numbers
- Use postal service to get change of address
- Use certified letters
- Use detective service
- Keep track of why people drop out so you can improve recruitment and retention for the next study or make changes to the current study



# Example of one study's retention strategy

- **Alternative contact numbers** were requested at the baseline assessment and rechecked throughout the study.
- The study protocol called for at least **10 call attempts** to be made per participant per contact at varying times of the day and days of the week, including evenings and weekends.
- Study staff repeatedly **checked** the clinic database and patient charts for **updated phone numbers** to replace disconnected or wrong numbers and made repeated attempts to re-contact participants who left the country for months at a time.
- To alleviate transportation difficulties for patients getting to the clinic for intervention visits, and for those who 'no-showed' multiple times, home visits were conducted.
- Wide time windows of 4–6 weeks were instituted around each contact point to allow for the greatest possibility of reaching participants.
- Participants still not reached after these efforts were discussed in study team meetings on a case-by-case basis to ensure that all possible avenues for reaching them had been explored.



#### Resources

Accrualnet

<u>https://accrualnet.cancer.gov/</u>

Clinical performance partners

<u>http://www.clinicalperformancepartners.com/download</u>
<u>able-tools-templates.php</u>

Center for Information and Study on Clinical Research Participation

http://www.ciscrp.org/



