



# Protocol Feasibility Analysis

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# LEARNING OBJECTIVES

- **At the end of the class attendees should know:**
  - The importance of conducting study feasibility analysis
  - The importance of feasibility for industry sponsored trials and investigator-initiated research
  - How to conduct a feasibility analysis (best practices)
  - How to track successful and unsuccessful studies for better analysis in the future

# IMPORTANCE OF FEASIBILITY ANALYSIS

*Prediction is very difficult, especially if it's about the future. -*

Niels Bohr

- **Feasibility assessments cost time and money but they are a good investment and can proactively identify risk factors**
  - Prevent wasting resources
  - Prevent wasting money
  - Preserve the PI/Site's reputation



# WHY COMPLETE A FEASIBILITY ANALYSIS?

2011 paper published about research at OHSU found that 31% of studies at OHSU enroll 0 or 1 subject

- Cost to institution = \$1 Million annually
- Underperforming studies slow down the entire research system
- Increase the risk of bad science

Source: *Kitterman, D.R., Cheng, S.K., Dilts, D.M., & Orwoll, E.S (2011) The Prevalence and Economic Impact of Low-Enrolling Clinical Studies at an Academic Medical Center. Academic Medicine, Vol. 86(11), pp.1-7*

## MORE REASONS

- 48% of clinical sites under-enroll participants (*Tufts, 2013*)
- 46% of investigators report being “generally unsatisfied” with finance related issues for conducting clinical trials (*Corneli, et al, 2017*)
- High rate of turnover in clinical investigator community
  - 50% of PIs completing a 1572 chose not to file again (*Tufts CSDD, 2017*)
  - Nearly half of PIs were new to the job (*Tufts CSDD, 2013*)

# FEASIBILITY ANALYSIS FOR SPONSORED TRIALS

- **Agreeing to the wrong studies can:**
  - Drain resources
  - Damage reputation with Sponsor/CRO/Coordinating Center
- **Agreeing to the right studies can:**
  - Build PI/site experience
  - Provide research opportunities to patients
  - Provide revenue
  - Contribute to PI/Departmental goals

# FEASIBILITY ANALYSIS FOR INVESTIGATOR-INITIATED TRIALS

- **Without a thorough feasibility analysis:**
  - PI may find it takes longer to enroll than funding allows
  - PI may need to get NIH approval (and other funders) approval for a change in scope of the research
  - PI may not be able to complete the study
    - Looks bad for future funding
- **Feasibility Analysis = Successful Study**
  - More funding and publications



# So, what is a protocol feasibility analysis?

- **An initial step in the clinical trial start-up process, includes assessment of protocol components:**
  - Study design and objectives
  - Site resources and capabilities
  - Patient population





# STUDY DESIGN AND OBJECTIVES

- **Is the study question important to the PI at OHSU?**
- **Is the protocol well designed and clear?**
  - Is it the final version of the protocol?
- **Can the protocol be adequately integrated with routine standard of care?**
  - Do the study procedures/treatments match OHSU standard of care? If not, are there research funds to pay for research procedures?
- **Is there an impact on institutional reputation or academic interest in our specialty related to this research? Positive/Negative?**

# STUDY DESIGN AND OBJECTIVES

- **Is there a clinical impact on patient treatment or need for therapy?**
- **Post Marketing/Registry Trials**
  - Is there a research question?
    - Is it mandated by FDA?
    - Is it solely for marketing purposes?

# SITE RESOURCES AND CAPABILITIES

- **Principal Investigators (PI) Time**

- Clinic time to accommodate study visits
- Time to oversee/complete regulatory and contractual obligations

- **Coordinator/study staff Time**

- Staff time to conduct the study and complete study regulatory and institutional requirements
- Appropriate training/credentials

- **Ancillary/support staff**

- After hours coverage (if needed)
- Capacity for additional research procedures

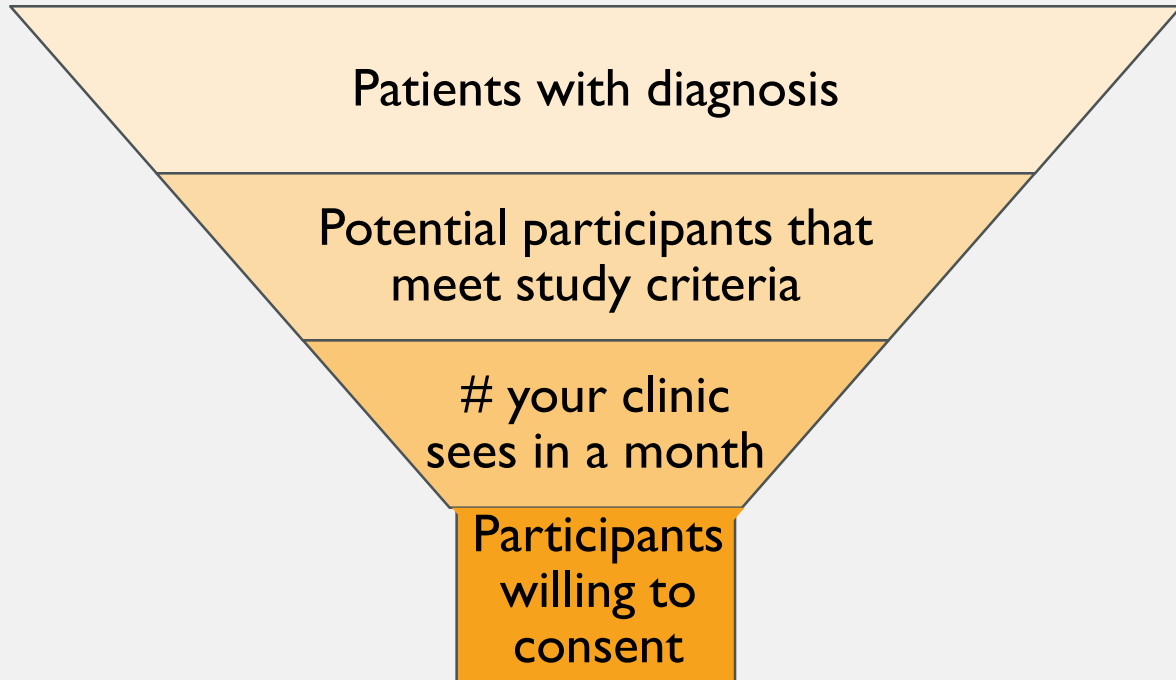
- **Equipment/Facilities**

- Space
- Protocol required equipment (e.g. freezers, specific equipment)
- Access to the equipment at the protocol required time points

# PATIENT POPULATION

- **Can you enroll the required # of participants in the specified timeframe? Consider:**
  - **Funding Period**
  - **Sponsor recruitment timeline**
    - Competitive enrollment
  - **How will you identify participants?**
  - **Do you have competing studies?**
  - **Is the protocol attractive to potential study participants?**
    - Participant burden
    - Potential benefits to the participant
    - Are there other treatment options available?

# ESTIMATING YOUR POTENTIAL PARTICIPANT POPULATION



- Need to have pool of patients that have the diagnosis
- AND meet the inclusion/exclusion criteria
- Consider how many can you reasonably screen in a month at regular/study specific visits
- Participant Burden? Are the study procedures/ visits reasonable

Don't over estimate! 48% of clinical sites under-enroll participants (Tufts, 2013)

Don't Guess! Tools are available

# FINANCIAL CONSIDERATIONS

- **46% of investigators report being generally unsatisfied with finance-related issues for conducting clinical trials (Corneli, et al., 2017)**
- **A CenterWatch Focus Group Study (2014) found that Sites say Sponsors/CROs are asking sites to do more but are not covering the costs**
  - More staff trainings
  - Studies are more complicated
  - Consent forms are longer
  - Push for quicker start up
  - Multiple amendments before studies start
- **Administrative costs are rising but budgets have been flat**

## EXAMPLE FEASIBILITY CHECKLIST

<b>Study Population</b>	<b>Yes</b>	<b>No</b>	<b>Unk</b>
<b>Does OHSU have the patient population described in the inclusion/exclusion criteria?</b>			
<b>Do you see these patients in your clinic at OHSU?</b>			

See OCTRI Website – Policies, Forms and Templates - Protocol Feasibility Checklist

# CASE STUDY - BACKGROUND

- **OHSU Dermatology Clinical Trials Unit profile:**

- 10 active Principal Investigators
- 8 person study team



- **Trial portfolio covers all age ranges and many indications (including rare diseases)**

- Primarily industry trials, but also NIH-sponsored and IIT's



# CASE STUDY

- **Earlier this year, we decided to pursue a particular industry sponsored clinical trial:**
  - Study population included adolescents and adults with mild to severe atopic dermatitis (AD)
- **We thought we were playing it smart:**
  - Trials for **mild** AD are more of a rarity
  - We anticipated rapid and easy enrollment to that cohort
  - Trial involved a different drug and route of administration (topical) from other studies



# CASE STUDY

**By the time we opened, there were only two months left to enroll  
Despite best efforts, we only consented one subject before enrollment closed...  
...and that subject screen failed**



**What went wrong?**



## **Unanticipated changes to enrollment**

- *Mild AD cohort enrolled rapidly study-wide and closed early*
- *Enrollment communications from Sponsor were infrequent*



## **Unappealing to population**

- *Patients preferred oral or injectable treatments over topicals*
- *Topicals viewed as potentially less effective*



## **No clear recruitment strategy**

- *Overly confident that enrollment would be easy*
- *Did not adequately identify resources upfront*
- *No preparation for potential complications*

# WHAT SHOULD WE HAVE DONE DIFFERENTLY?



**Effective protocol feasibility would have helped us to avoid these issues**



## **Unanticipated changes to enrollment**

Established and maintained effective communication between all parties for study-wide enrollment updates



## **Unappealing to population**

Held upfront discussions with Investigators about the selling points of the study treatment

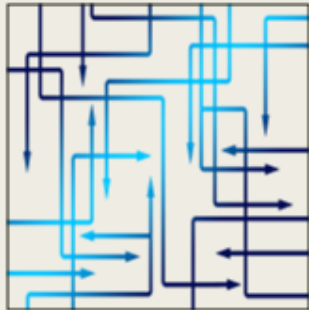


## **No clear recruitment strategy**

Exercised caution and properly established a recruitment strategy to identify resources and prepare for potential complications

# WHY IS PROTOCOL FEASIBILITY SO DIFFICULT?

There are many factors you need to take into consideration in order to effectively determine whether or not a study is right for your site



## Logistics

- Site infrastructure
- Resources
- Study timing



## Population

- Subject recruitment and retention
- Study portfolio

## Finances

- Study budget
- Staff and site costs



## Purpose/Merit

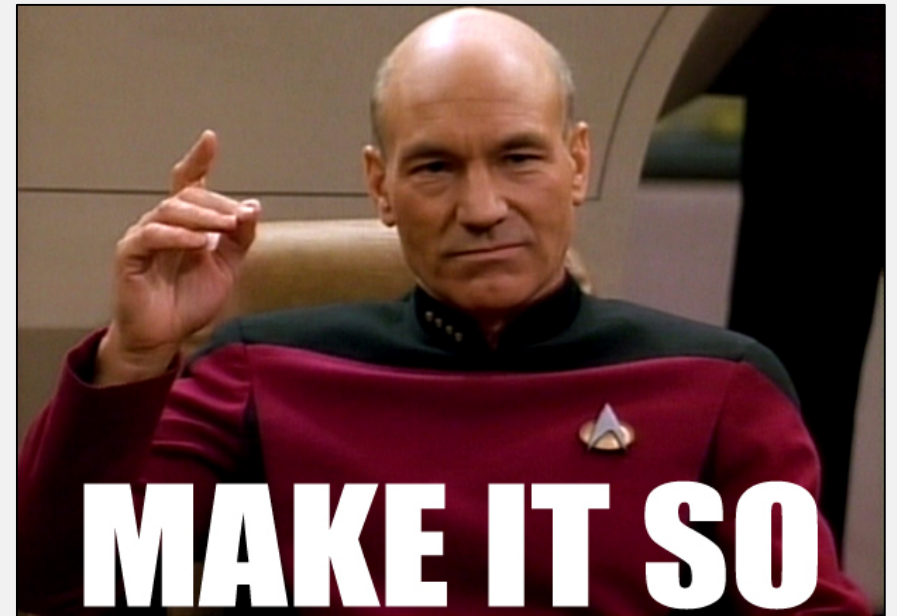
- Protocol design and objectives
- PI education
- Impact



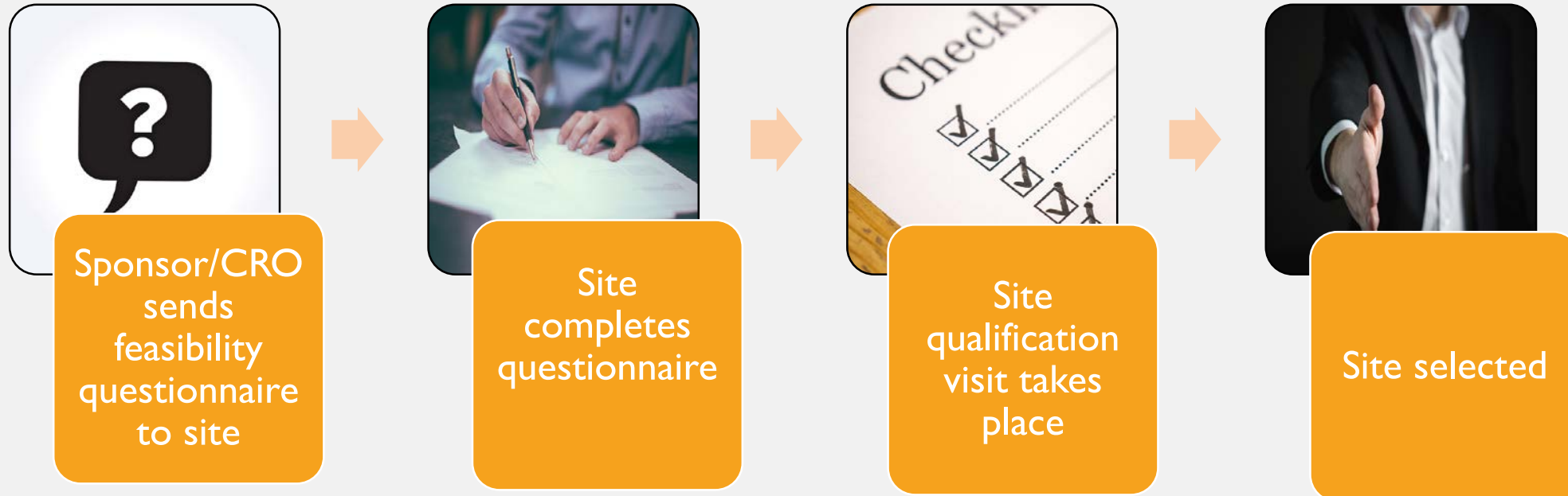
## If we open this trial at our site, will it be successful?

### Success defined as:

- *Completion of study objectives*
- *Meeting enrollment goals*
- *Effectively covering all study costs*
  
- *And making a difference in the world 😊*



# STANDARD FEASIBILITY PROCESS

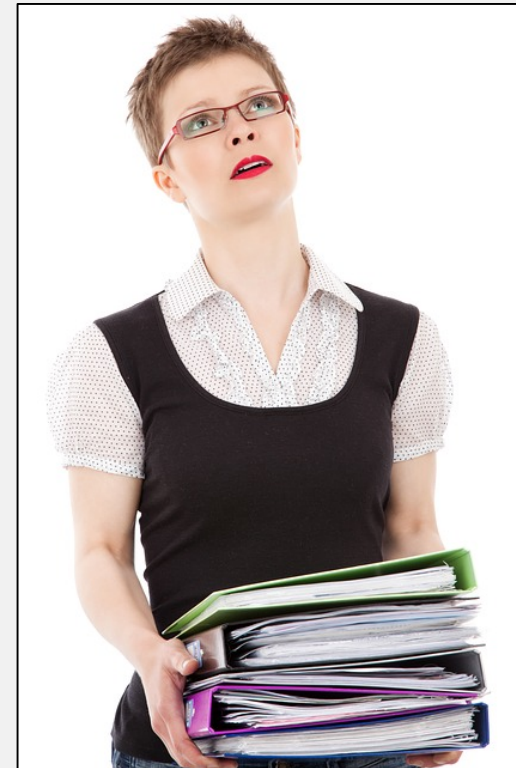


- **Site demographics** – previous experience, staff/investigator qualifications, site equipment and resources
- **Study recruitment potential** – patient population and frequency, referral systems



# What isn't great about this?

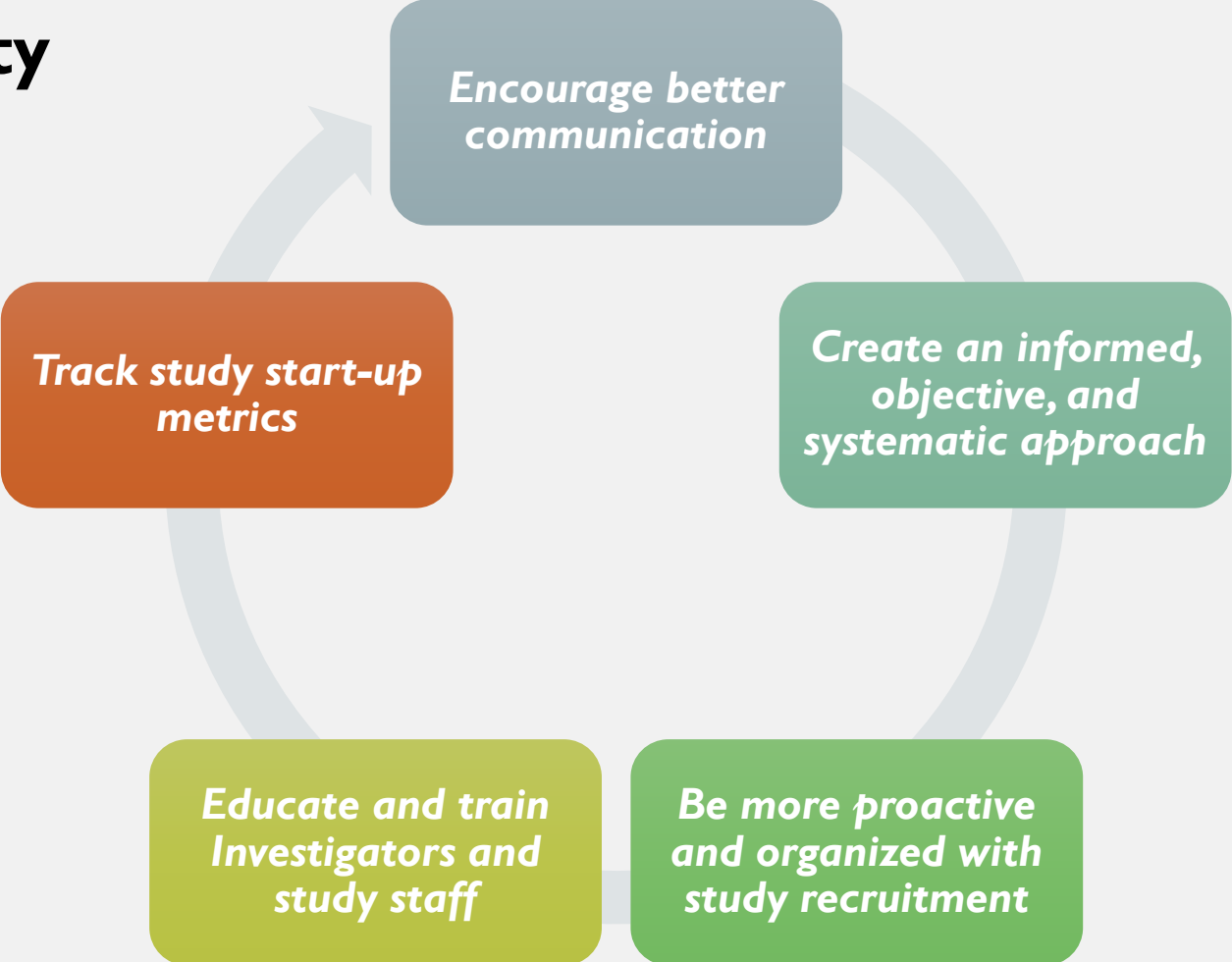
- **Industry sponsored site questionnaires all tend to be the same, which can lead to a cut-and-paste job**
- **Site qualification visits can feel worthless**
  - **Uninformed CRA's**
  - **Limited time with PI**
- **Site selection isn't an informed decision**





# Refining our protocol feasibility process became a priority:

- **Communication**
- **Approach**
- **Organization**
- **Education**
- **Tracking**
  
- **And these are the lessons we learned...**



# ENCOURAGE BETTER COMMUNICATION

- **Familiarize yourself with rules, policies, and operations (and make friends!)**
  - Many essential departments and processes involved
- **Focus on your team**
  - Connections between Investigators and study team builds rapport and allows for all perspectives to be heard
- **Know your contacts and history**
  - CRO, Sponsor, Medical Monitor
  - Have you worked with this company before? How did that go?
- **Reverse Feasibility Form**

# REVERSE FEASIBILITY FORM

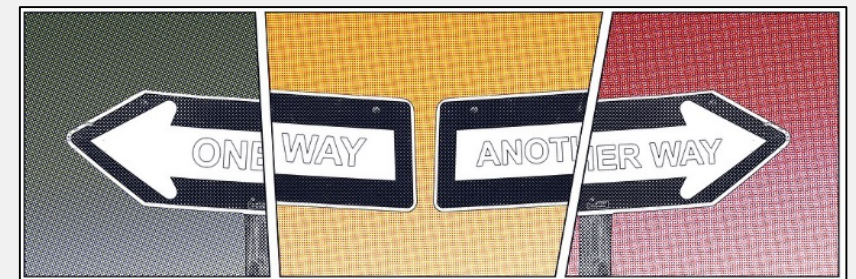
**Start-up feasibility process can feel like a one-way street of assessment and approval, but it's not!**

- **Study status**

- Where is Sponsor at with site selection? Are other sites already enrolling?
- Planned duration of enrollment, significant dates

- **Study components**

- Description of study, if not already provided
- What are the optional portions of the study?



# CREATE INFORMED AND OBJECTIVE APPROACH

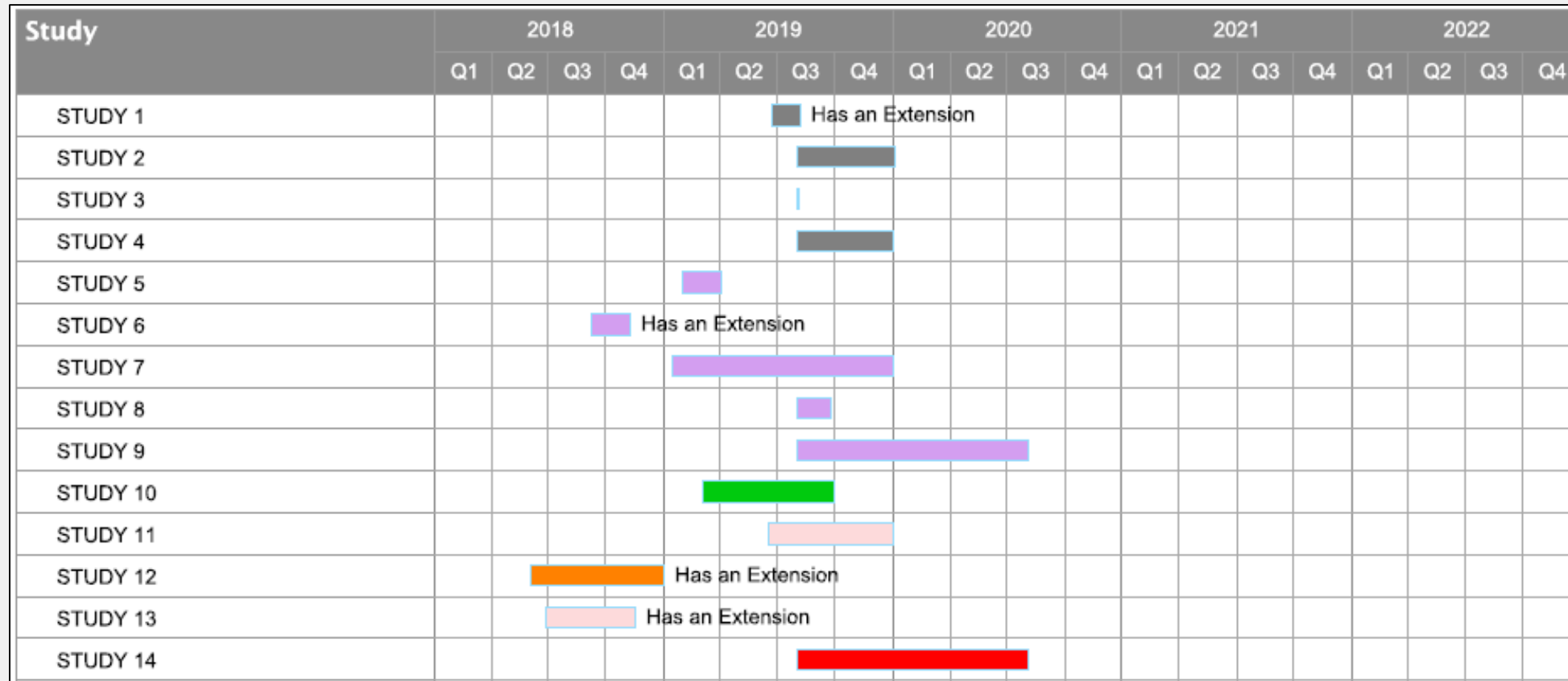
- **Ensure that you have a fair process for study selection**
  - Multiple Investigators = Multiple interests and priorities
- **Have a system/reference in place to prioritize start-up with transparency**
  - Essential when there many trials being considered or are already in start-up
  - Hold meetings to ensure PI's and study team are aware of the priority rationale
- **Trial Feasibility Matrix and Study Timeline Tracker**

# TRIAL FEASIBILITY MATRIX

Name of Study:		PI:		Date Evaluated:	
Area of Determination	0 points	1 point	2 points	3 points	Points
<b>Science and PI Importance</b>	Little to no impact to science; past study data does not show favorable results	Minimal scientific importance; PI somewhat motivated to participate	Moderate scientific importance; PI motivated to participate	Would significantly contribute to science and/or PI is very motivated to participate	
<b>Financial Impact</b>	No funding and would require a significant amount of Admin/CRC time	No funding and require very little time from Admin/CRC (ex: registries)	Is funded with a small budget	Is funded with a large budget	
<b>When was Regulatory Packet Received</b>	< 1 month	1-3 months	3-6 months	>6 months	
<b>Duration until Enrollment Closes</b>	>12 months	8 - 12 months	4-8 months	3-4 months	
<b>Competing Studies</b>	≥3	2	1	none	
<b>Total (out of possible 15)</b>					
<b>Priority</b>					

**Priority Scoring:**  
 0-4 Points = Low    5-10 Points = Moderate    11-15 Points = High

# STUDY TIMELINE TRACKER



- Provides high-level review of open enrollment timelines and projections
- Colors representative of different disease groups/indications

# ORGANIZE STUDY RECRUITMENT



## Internal

- Chart reviews
- Screening calls
- Study update distributions (emails, meeting presentations)
- Clinic discussions
- Flyers



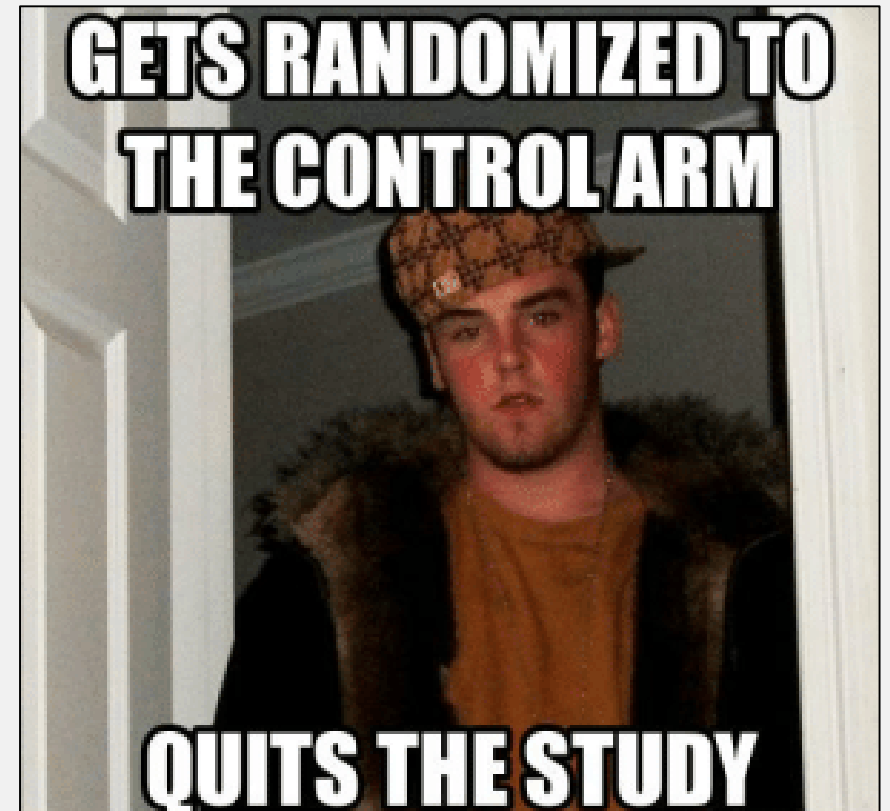
## External

- Websites, Social media, Google Ads
- Printed materials, Radio/TV spots
- Patient advocacy groups
- Central Ad services



# RECRUITMENT PLAN

- **Bring PI's and study team together to develop recruitment strategy**
  - Determine enrollment goal and timeline
  - Identify unique trial characteristics and selling points
  - Troubleshoot potential snags
  - Review study-specific recruitment materials
  - Plan to re-visit throughout the study to track progress
  - Check the study budget for advertising funds

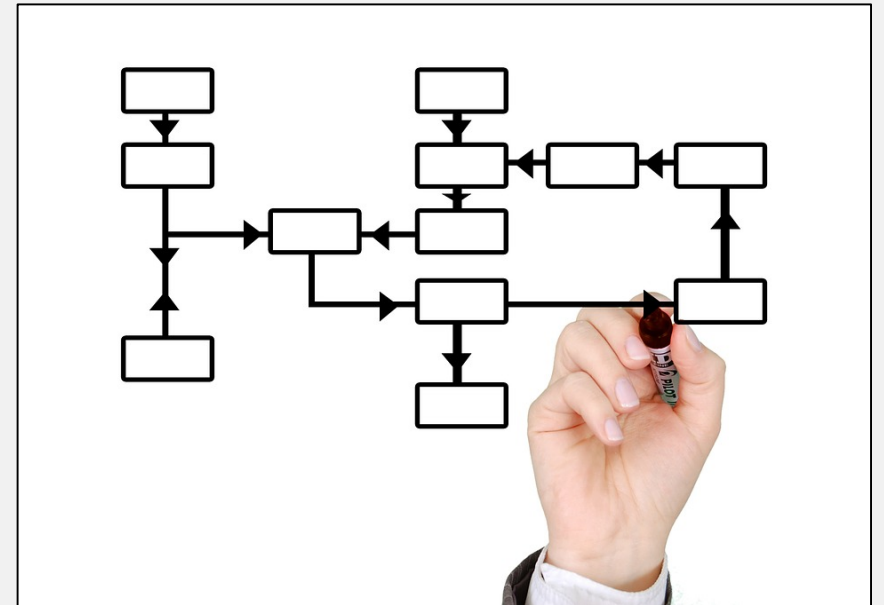


# FOCUS ON INVESTIGATOR AND STAFF EDUCATION

- **Confirm that PI/Sub-I and study teams have received adequate training to understand their study roles and responsibilities**
  - CITI and GCP ain't cutting it
  - Important items to discuss with prospective Investigators and team:
    - Time commitment
    - Consequences of non-compliance
- **Investigator and study team training, includes relevant topics:**
  - Proper regulatory practices
  - Roles and responsibilities
  - Study start-up process

# STUDY START-UP METRICS

- **Know your capabilities for start-up timeline**
  - Big ticket items: Receipt of study materials, decision to pursue, IRB approval, contract execution, open to enrollment
- **Using a high-level and detailed tracking system will provide a more accurate representation of your process**
  - Will lead to more informed decisions during feasibility



## Clinical Research Internal Project Plan

**IRB: 20208**

PI: Bob Ross

Primary CRC: Steve Ross

Sponsor: Happy Trees, Inc.

Reg Tasks	Completed Date	Days (approx)	Comments/Delays
Site Selected	6/5/2019	0	
Reg Packet Received from Sponsor	6/7/2019	2	
Reg PM ICF Drafting (Draft ICF Sent to Sponsor)	7/11/2019	34	
Sponsor Reviewing ICF (ICF Finalized by Sponsor)	7/11/2019	0	
IRQ Prep	7/11/2019	9	
Initial CRRC/IRB Submission Date	8/8/2019	28	
IRB Scheduling (Initial IRB Review Date)	8/9/2019	1	
IRB Comments (Clarification Memo Received)	8/15/2019	6	
RPM addressing comments (IRB Clarifications Sent to Sponsor)	8/15/2019	0	
Sponsor addressing comments (IRB Clarifications Finalized by Sponsor)	8/26/2019	11	
Finalized for resubmission (Resubmission Date)	8/28/2019	2	
IRB Re-review	9/4/2019	7	
IRB Approval Date	9/17/2019	13	
CTA Finalized		-43725	
<b>SIV</b>		0	
<b>Green Light from Sponsor</b>		0	
<b>Open to Enrollment</b>		0	

Budget Tasks	Completed Date	Days	Comments/Delays
Budget Received	6/5/2019	0	
Negotiate budget/payment terms -Round 1	6/20/2019	15	
Negotiate budget/payment terms -Round 2	7/12/2019	21	
Negotiate budget/payment terms -Round 3	7/20/2019	8	
Final Budget Review/Approval	8/1/2019	57	

# STUDY START-UP TRACKER

## Data Entry View

# High-level View

**IRB: 20208**

PI: Bob Ross  
Sponsor: Happy Trees, Inc.

In Progress 16%

Completed 84%

IRB Submitted:	8/8/2019
IRB Approved:	9/17/2019
Contract Executed:	
Enrollment Opened:	
Primary CRC: Steve Ross	
<b>Variances:</b>	

# End Project View

## Startup Progress

In Progress 16%

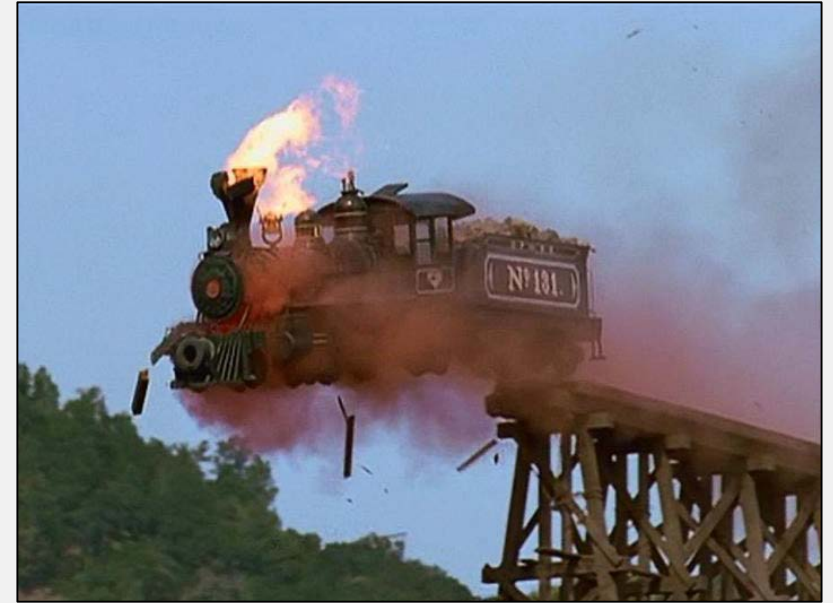
Completed 84%

End Project Evaluation	
Pre-Submission Days:	73
Submission to IRB approval:	68
Days for CA Approval:	42
Projected Open to Enrollment Date:	10/3/2019
Actual Open to Enrollment Date:	
Variance:	-43741
Primary Variance Due to:	

Variances (Brief Summary, Top 5 will display on Summary Page)	

## CASE STUDY - TAKEAWAYS

**Protocol feasibility may very well save one of your trials from going off the rails**



- **Communication:** Get to know the people you will rely on to make your trial a success
- **Approach:** Consider a new trial from multiple perspectives in order to maintain an objective and fair selection process
- **Recruitment:** Develop a plan upfront for better accrual outcomes
- **Education:** Continually engage and educate your Investigators and study teams
- **Tracking:** Start-up metrics will lead to evidence-based, realistic study projections for future trials

# DEAL BREAKERS



## Sponsors/Funders say no when:

- Site has no experience
- No eligible participants
- Inadequate staff to conduct the study
- Budget
- Poor performance on previous trials
  - Compliance Problems
  - Didn't meet enrollment

## Sites should say no when:

- PI isn't interested in the study
- Don't have eligible participants
- Budget doesn't cover costs
- Study design isn't compatible with standard of care/clinic procedures
- Staff don't have time to conduct the study

## **SAYING NO... *THANK YOU***

- **Declining studies that are not feasible is important for a site's/PI's success**
  - Conserves resources
  - Financial stability
  - Maintains reputation as a reliable site/PI with sponsors
- **Communicate the reason(s) you are declining the study**
  - Competing studies/Time— let the sponsor know you are a good fit for future study opportunities
  - Participants – let the sponsor know what inclusion/exclusion criteria would make enrollment difficult at your site
  - Budget – let the sponsor know what particular areas of the budget do not allow you to cover your costs





# TRACKING SUCCESS AND FAILURES

*The best prophet of the future is the past - Panda Express*



- Record the information you collected during your feasibility analysis with the benefit of hindsight/experience
- Store the information centrally where others can benefit from your experience
- Record information at the time of study/account closure
  - Much harder to re-create this information at a later date
- Track all studies
- Important because PIs/Staff they take their knowledge with them when they leave

# KEY POINTS TO TRACK

- **Enrollment**

- Expected enrollment (defined by contract/endpoints)
- Actual enrollment and why (screen failures, time, retention)
- Expected enrollment end date
- Actual enrollment end date and why (sponsor issues, available participants, competing studies)
- What recruitment tools did you use? Did they work?

- **Financial**

- Did the study cover costs or end in deficit?
- Which costs were higher than expected? Did you miss items in the budget? Were funds managed appropriately?



# KEY POINTS TO TRACK

- **Track relationships with the Sponsor/CRO/Funder**

- Poor, fair, good and why?

- **Resources**

- What were the challenges? What went well? Consider scheduling, equipment, staff turnover

- **Science**

- Were the study endpoints met?
- Publications, collaborations, new grants/funding, impact



**QUESTIONS?**

## REFERENCES

- Corneli, A., Pierre, C., Hinkley, T., Lin, L., Fordyce, C., Hamre, G., & Row, M (2017). One and done: Reasons principal investigators conduct only one FDA-regulated drug trial. Contemporary Clinical Trials Communications V6, pp 31-38.
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