

Are you a Super CRC?

SCRI-NUHS CRC Workshop

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OF COURSE!! YOU ARE 😊





The
BIG Picture
first

Government's Strong Commitment to R&D

- Singapore started its research, innovation and enterprise (RIE) journey started 30 years ago
- Successive 5-year plans have seen increased public and private sector investments in R&D

Plan	National Technology Plan 1995	National Science & Technology Plan 2000	Science & Technology 2005 Plan	Science & Technology 2010 Plan	Research, Innovation and Enterprise 2015 Plan	Research, Innovation and Enterprise 2020 Plan
Budget	\$2 billion	\$4 billion	\$6 billion	\$13.5 billion	\$16 billion	\$19 billion

RIE2020 for HBMS (Health & Biomedical Sciences) \$4 billion

Source: <http://www.research.gov.sg/RIE2020>

Health and Biomedical Sciences (HBMS)

- Initiatives include:
 - ❖ Developing talent base
 - ❖ Strengthening clinical research infrastructure & facilities
 - ❖ Developing investigational medicine capabilities and strengthening supporting enabling resources and regulatory frameworks
- Phase 1 (2000-2005)
... Strengthening basic research infrastructure
- Phase 2 (2006-2010)
... Strengthening translational and clinical research capabilities
- Phase 3 (2011-2015)
... Encouraging private-public partnerships

HBMS Phase IV (2016-2020)

BMS Goal: To be a leading centre that advances human health and wellness, and creates economic value for Singapore and Singaporeans, through the pursuit of excellence in research and its applications.



RIE2020 Healthcare Research Strategy – 5 Therapeutic Areas of Focus



Cancers



Cardiovascular Diseases



Infectious Diseases



Neurological and Sense Disorders



Diabetes Mellitus and Related Metabolic/Endocrine Disorders

CRC

How does it
matter to me?

What can I do
to be ready?

What are the
skills I need?





CRCs



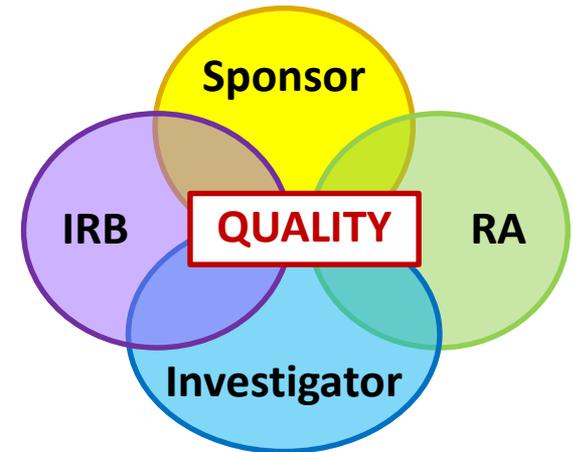
A CLINICAL TRIAL / CLINICAL RESEARCH STUDY

The success of clinical studies relies heavily upon CRCs' abilities to effectively manage day-to-day study activities.

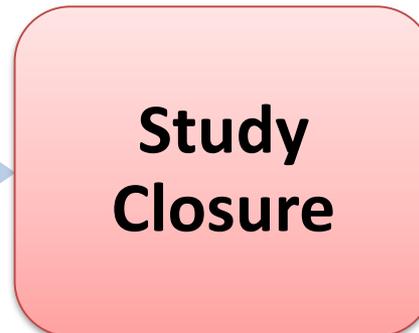
Just some of the activities...



- *Budget*
- *Study team*
- *IRB & RA Submissions*
- *Investigator Site File set-up*
- *Training (IM, SIV etc.)*
- *Recruitment strategies*
- *Study Work Flow*



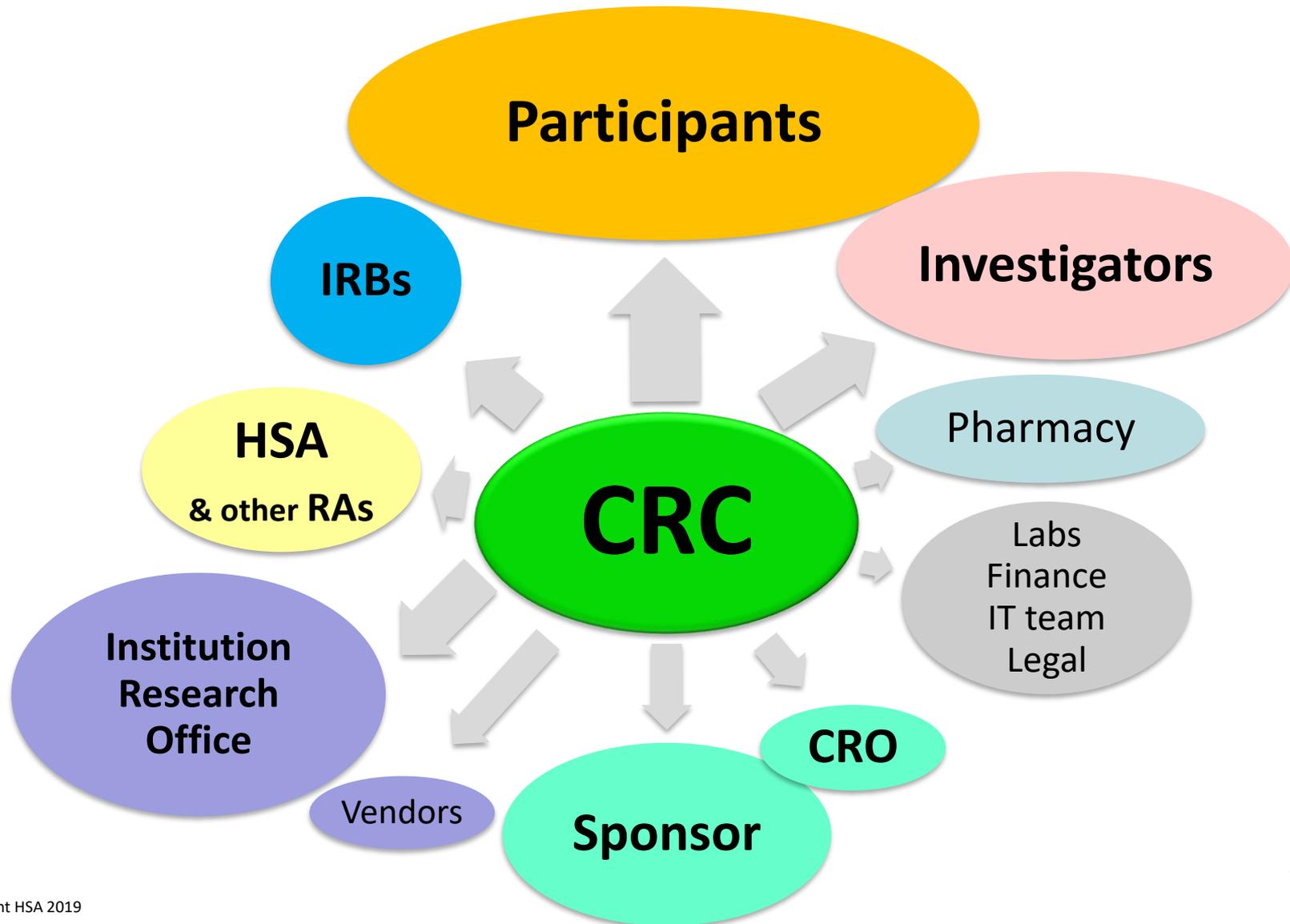
- *Subject Recruitment and Follow-up*
- *Investigational Product (IP) management*
- *Biological Samples handling*
- *Safety Reporting*
- *Data collection*
- *Investigator Site File maintenance*



- *Data cleaning*
- *IP return / destruction*
- *Study Closure support*
- *Archiving*
- *Finance matters*

CRC

“Central to Research Quality Control”





News Feature

| Published: 07 January 2019

Twenty-five ways clinical trials have changed in the last 25 years

Mike May 

Nature Medicine **25**, 2–5 (2019) | [Download Citation](#) 

**Exploring the evolution, from analysis
and endpoints to registration and
regulations**

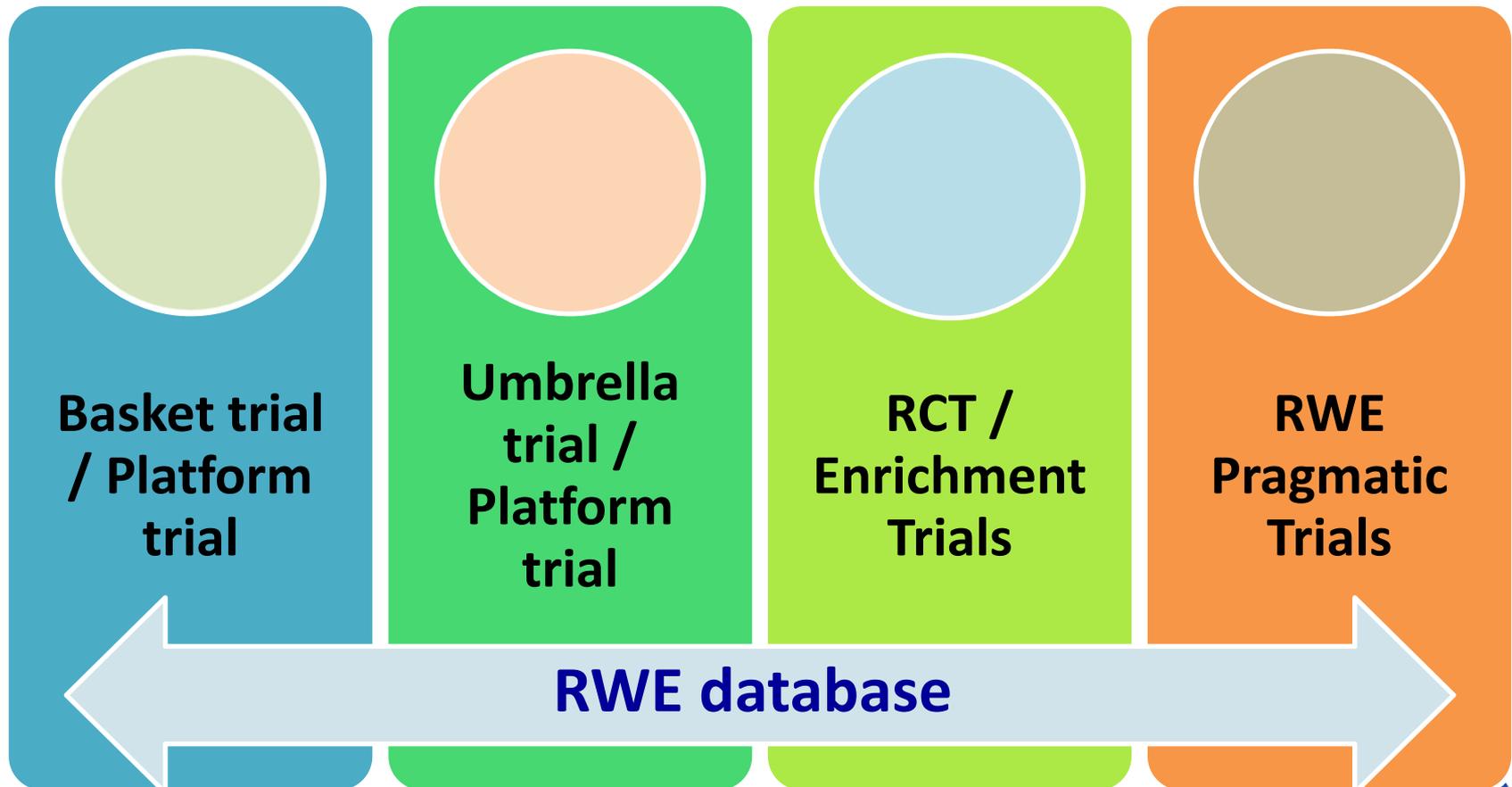
Some of these changes...

- General changes
 - **'Ever more molecular', 'Ramped-up training'** (... to make clinical trials safer and to improve the value of the results by ensuring that everyone on a team understands the standards for running a trial, from design through reporting, including revealing any problems encountered during the trial.)
- Types of trials
 - **'Adaptive trials', 'Basket trials', 'Umbrella trials', 'Platform trials', 'Real-world evidence studies'** ...
- Trials procedures
 - ... **'Complicated criteria', 'Complicated protocols', ...**
- Data collection/analysis
 - ... **'Information control'** (... need to keep everything organized and available),
'Data sharing', 'Caring in sharing'

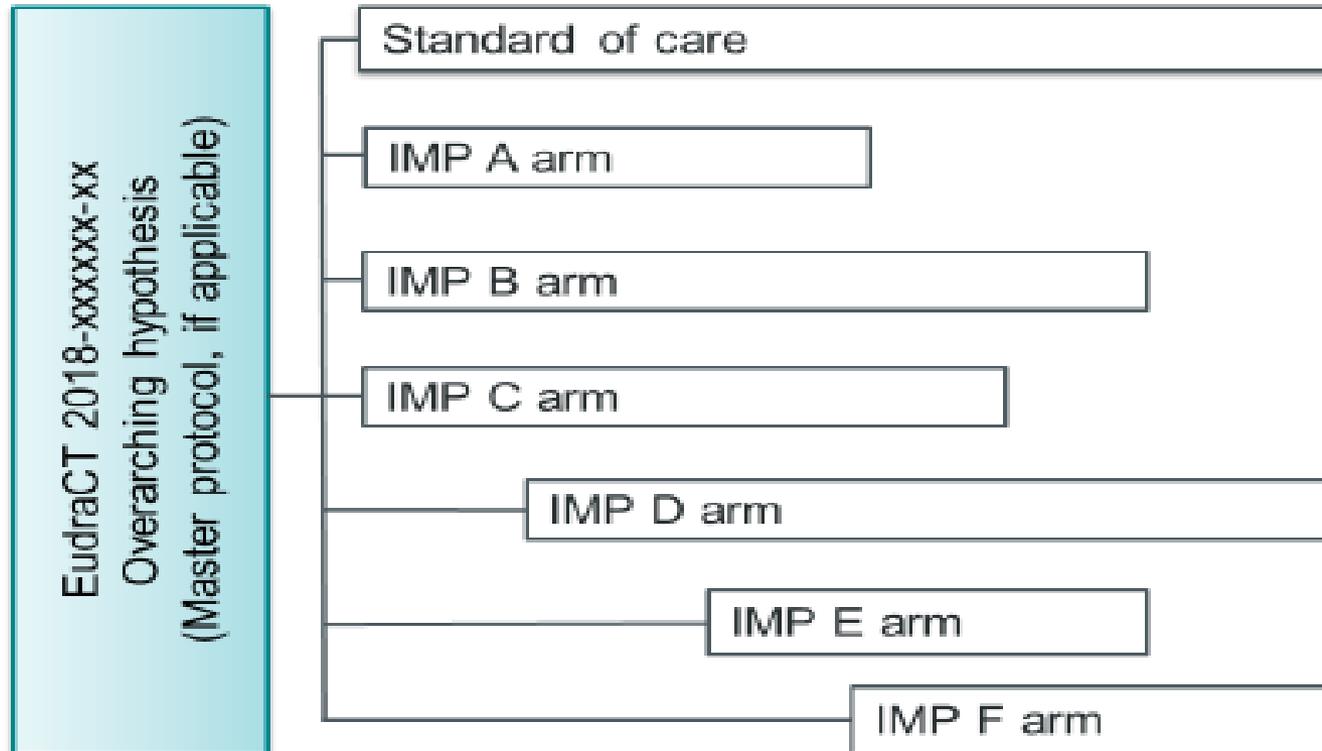
Traditional Clinical Trials – Then and Now



Adaptive Clinical Trials – Now and the Future



Complex Clinical Trials



Example of a complex trial design with arms compared to a shared control arm. The design is characterised by extensive adaptations where arms with new IMPs are being opened and closed during the conduct of the trial via substantial amendments.

Source: EMA CTFG Recommendation Paper on the Initiation and Conduct of Complex Clinical Trials

Complex Clinical Trials

EMA CTFG

Recommendation Paper on the Initiation and Conduct of Complex Clinical Trials

Key recommendations

12 February 2019

1. Clearly describe and justify design
2. Maintain **scientific integrity**
3. Ensure **quality** of trial conduct and optimise clinical feasibility
4. Ensure **safety** of trial subjects
5. Maintain **data integrity**
6. Reassess benefit-risk balance at critical steps throughout clinical trial
7. Validate companion diagnostics
8. Consider data transparency

Clinical Trials Facilitation and Coordination Group (CTFG) is a working group of the Heads of Medicines Agencies on clinical trials. This document is published on the CTFG webpage: <http://www.hma.eu/ctfg.html>

Are **YOU** ready
for the future of
clinical research?

A Super CRC!

Systematic: You are tasked with many study responsibilities, prioritise them. You need to have Exceptional Organisational skills.

Understanding: You are usually the first point of contact with the subjects and families, demonstrate care and empathy to build trust.

Professional **D**evelopment: A super CRC will consistently enhance his/her education and knowledge through a dedicated support system.

Ethical & **E**ngaged: You must always be ethical and do the right thing (effective) and do things right (to achieve the objectives). You have to be engaged by reading the study material, understand the requirements of the protocol and staying on top of the updates.

Responsible: You are responsible to protect the goals of GCP i.e. subject protection & data quality (compliance with protocol, regulations, guidelines and SOPs).

Conscientious: You are conscientious to keep to your commitment and promise.

Resilient & be a clinical research **R**esource – You are resilient to handle stress and setbacks. When times get tough, the CRC may often bear the brunt of the problem.

Caring, **C**ommunicate, **C**oordinate & **C**reative – You are creative to develop tools to enable them to manage multiple studies efficiently and effectively.

YOU are a **VITAL**
member of the
clinical research team to
develop and deliver
evidence-based care!

Scientific discoveries and new research evidence are fundamental in the development of medical innovations that can translate into better clinical practices and policies, leading ultimately to improved patient care and better health for our people.

Minister for Health,
Mr Gan Kim Yong

Source:
NMRC Awards Ceremony and Research Symposium 2019
NMRC e-Newsletter – ‘The Scope’, Jun 2019

Thank You