



Clinical Trials Research with the Philippines: Streamlining the Process

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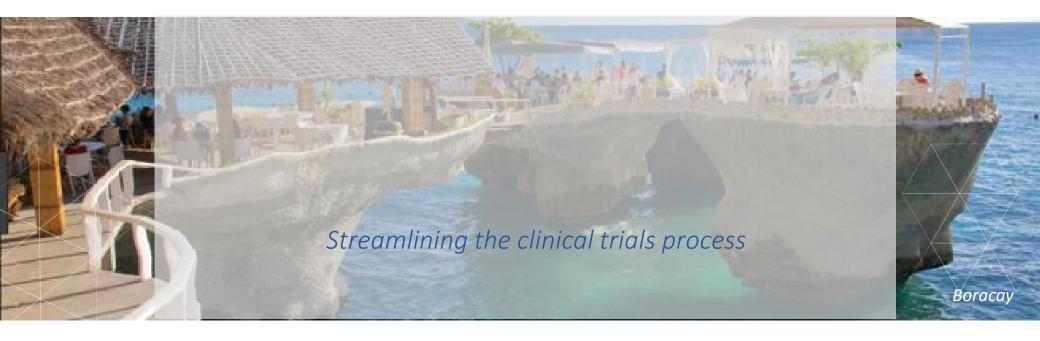


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Targets



- 1. from NCGM to the Philippines
- 2. Health conditions in the Philippines
- 3. Roadmap of clinical trials to Philippine sites



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Why connect through DIT?

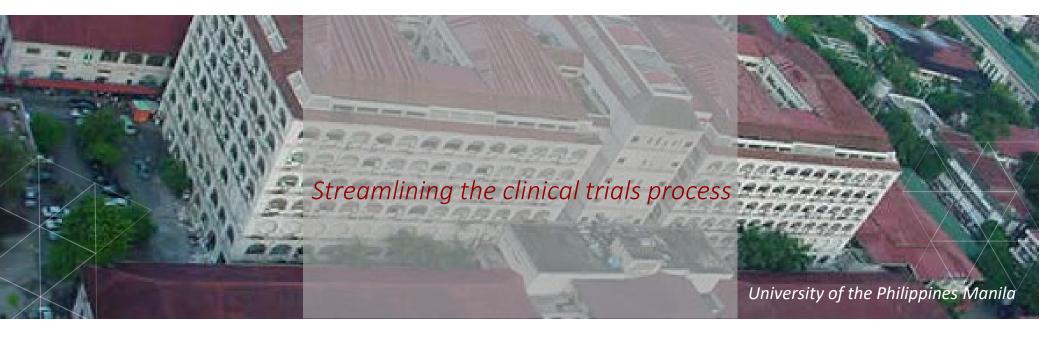
- GCP (E6), Ethnicity (E5),
 MRCT (E17)
- PMDA requirements
- WHO PQ standards
- minimize CQ risk
- 4 hours, 13 minutes from Tokyo
- 3 h, 48 min from Osaka
- 2 h, 20 min from Okinawa

https://www.travelmath.com/flyingtime/from/Tokyo,+Japan/to/Manila,+Philippines https://www.erinmeyer.com/self-assessment-questionnaire/

ICH=International Council on Harmonization
GCP=Good Clinical Practice
MRCT=Multi-Regional Clinical Trial
PMDA=Pharmaceutical and Medical Devices Association
WHO PQ= World Health Organization Pre-Qualifications
CQ=cultural intelligence quotient: "CQ is the new IQ"



Targets

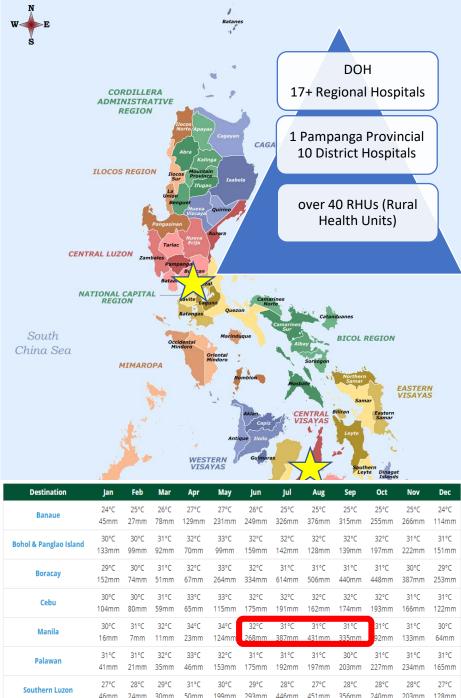


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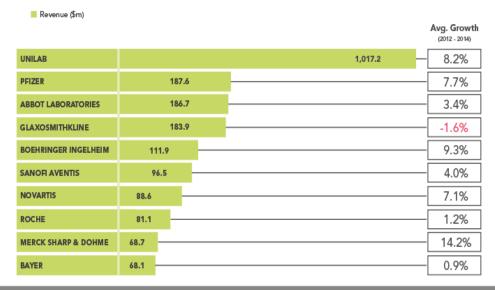
'Maharlika'

- North: Luzon (Manila)
- Central: Visayas (Cebu)
- South: Mindanao (Davao)
- Emerging economy with triple burden of diseases

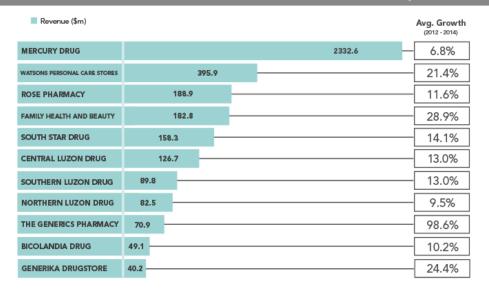




TOP PHARMACEUTICAL COMPANIES IN THE PHILIPPINES BY REVENUE, 2014

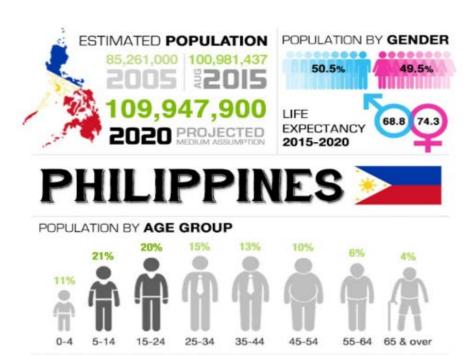


TOP DRUG RETAILERS IN THE PHILIPPINES BY REVENUE, 2014





Philippine Healthcare Economics



Philippine Healthcare Economics

Philippine Healthcare Market Trend Analysis:

- DOH outreach to all areas through RHUs
- Tropical infections and NCDs
- In need of improved maternal and child care
- Aging and psychiatry are upcoming concerns
- <u>Note</u>: DOH procurement of drugs & devices relies heavily on WHO PQ
- If there is no WHO guideline, then approvals from the Specialty Societies are important

http://www.wpro.who.int/philippines/areas/communicable_diseases/continuation_communicable_diseases/en/

continuation communicable diseases/en/

https://www.cdc.gov/globalhealth/countries/Philippines/

https://www.doh.gov.ph/population

https://www.doh.gov.ph/mortality

https://www.doh.gov.ph/morbidity

https://pharmaboardroom.com/country_reports/philippines-pharma-report/

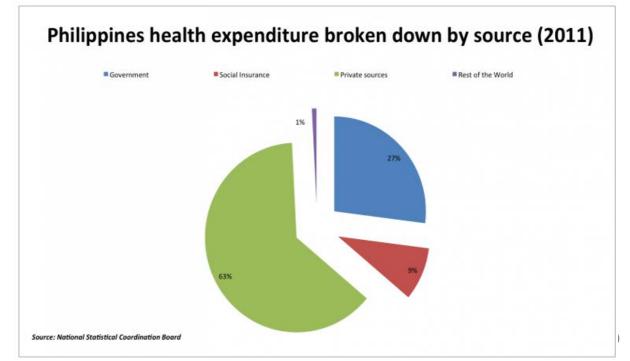
Philippine health research registry

© 2018 National Center for

PHILIPPINES HEALTH COVERAGE AS OF DECEMBER 31, 2015

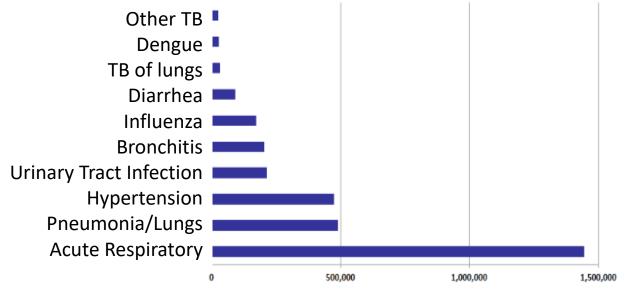






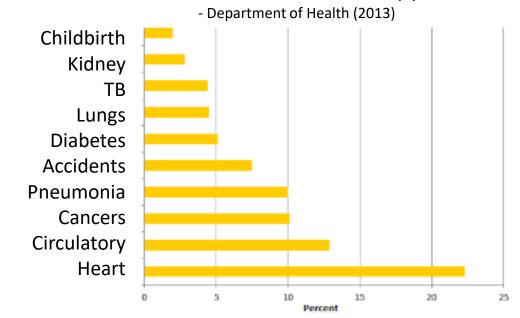
MORBIDITY: TOP 10, Philippines

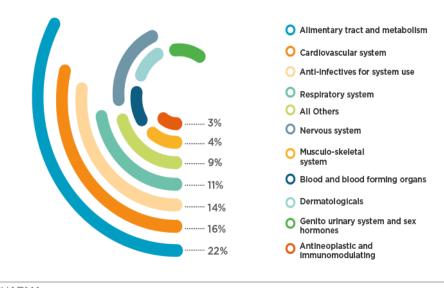
- Department of Health (2014)

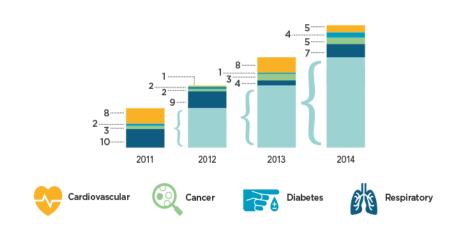


Philippine Healthcare Indicators

MORTALITY: TOP 10, Philippines







PHARMA

Source: IMS Market Prognosis 2014

** PHARMA
** BOARDROOM

Source: QuintilesIMS Health Philippines, MAT Q3 2011 - 2014

Philippine Healthcare Indicators

Philippine General Healthcare Market Gap:

- High morbidity due to infections, therefore need improved screening, diagnosis, and prevention
- Cardiovascular reach does not match mortality rank

http://www.wpro.who.int/philippines/areas/communicable_diseases/continuation_communicable_diseases/en/

https://www.cdc.gov/globalhealth/countries/Philippines/

https://www.doh.gov.ph/population

https://www.doh.gov.ph/mortality

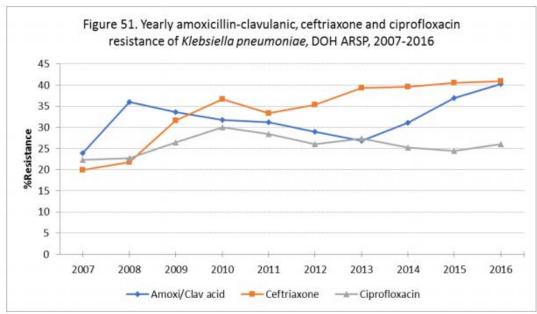
https://www.doh.gov.ph/morbidity

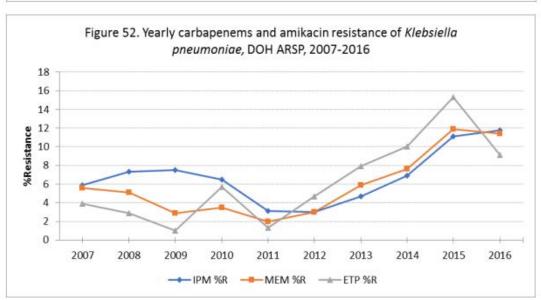
https://pharmaboardroom.com/country_reports/philippines-pharma-report/

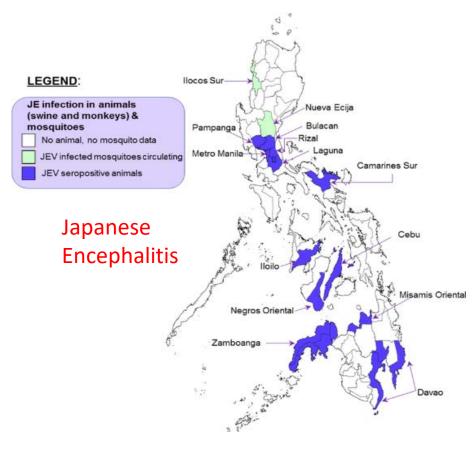
Philippine health research registry



AMR







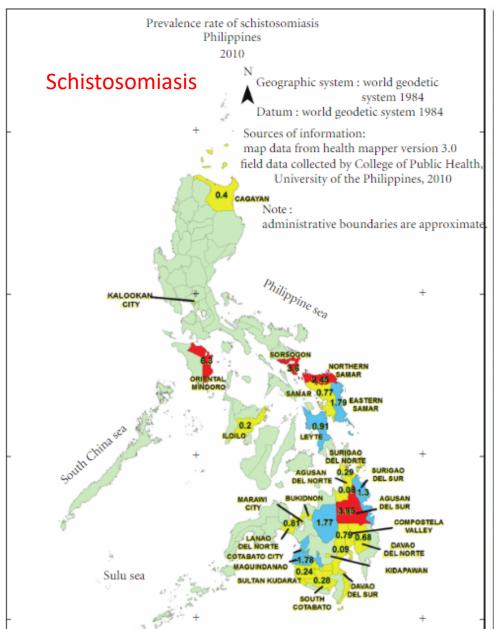
Philippine ID

http://www.wpro.who.int/philippines/areas/communicable_diseases/continuation_communicable_diseases/en/

https://www.cdc.gov/globalhealth/countries/Philippines/

Research Institute of Tropical Medicine (2016). *Antimicrobial Resistance Surveillance Program Data Summary Report*. Available at: http://arsp.com.ph/wpcontent/uploads/2017/06/2016 annual report summary.pdf









MDR-TB/HIV

Philippine ID



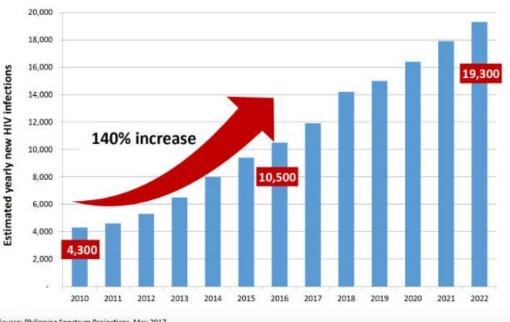
		MOQA-VS		2013		2014	
		Control of the Contro	Oct	Nov	Dec	Jan-Mar	Totals
		Measles admissions	121	481	1099	3808	5,509
		desired sample size*	26	105	240	831	1,202
		actual IgM-tested ⁹	46	152	415	922	1,535
4.		Negative	14	18	19	37	
- 1	MERS CoV, Ebola Reston	Positive	32	134	396	885	
	merce out enough reacon	% accuracy	69.6	88.2	95.4	96.0	
		Pre-QA1' %	69.6				
٠,	Measles, MERS CoV, Henipah	Post-QA1 %		88.2			
	managed merce and maniball	improvement		(+) 18.59%			
4 0	Pertussis, Measles	P		< 0.0001			
	attrasta' waastas	significance		extremely			
4 1	eptospirosis	Pre-QA2* %		88.2			
٠.	aptospii osis	Post-QA2 %			95.4	96.0	
	deller on our con	Improvement			(4) 7.2% <0.001	(+) 7.8%	
• •	hikungunya	significance			Very	<0.001	
		significance	+ Desired +	amela sina cons en		Very	ith a confidence interval of 2.5
	Dengue						esentative at SLH Epid Unit.
•							lunchtime on October 31, 2013
	Dandonia A LIANA		* QA2 was	tacilitated at the St	JH FMHIDTM con	ference room during lu	inchtime on November 28, 20
4	Pandemic A H1N1						
-							
_	Ebola Reston in pigs and humans	/ Lentosnims	el Sa	Imone	la tyn	hì	

Resistant Shigella flexneri 2a in Cavite, Bohol and Cotabato

Meningococcemia outbreak in CAR

SARS Outbreak

140% increase in yearly new HIV infections from 2010 to 2016



Source: Philippine Spectrum Projections, May 2017

- The Philippines remains highly endemic to many seasonal, epidemic-prone, as well as neglected tropical diseases
- AMR: Gonorrhea, Klebsiella, E. coli, and more

<sup>West Nile Virus Pseudo outbreak (RITM as Referral Laboratory)

Bioterrorism threat using Bacillus anthracis as biological weapon

Serological Surveillance ABLV

Ebola Reston in monkeys (US)

Ebola Reston in monkeys (Sienna, Italy)

Ebola Reston in monkeys (Restor Emerging/Re-emerging)</sup>



2015

2013

2012

2010

2009 2008

2007

2005

2004

2003

2002

2001

1998

1996

1992

1989

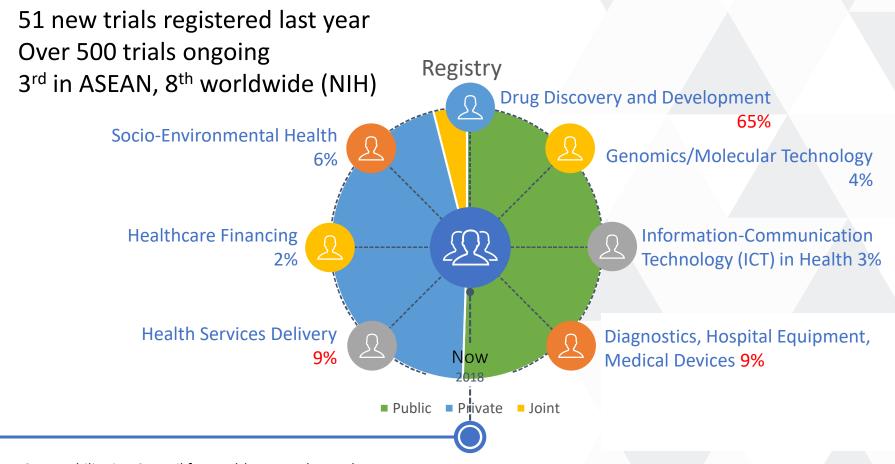
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Current Clinical Trials in the Philippines



PCHRD=Philippine Council for Health Research Development

Philippine Health Research Registry (2017).

http://registry.healthresearch.ph/index.php?option=com_healthregistry&control ler=registry&task=result_list

http://blog.credevo.com/2018/04/30/philippines-clinical-trial-regulatory-process/

Php 194-M govt-funded (PCHRD) [Y 398-M] Php 3-B private (CROs, Pharma) [Y 6.1-B] Php 3.2-T joint [Y 6.5-T]



Registered Clinical Trials

Public	#	Private	#
General	160	St Luke's	155
PCHRD	130	Parexel	059
UP Diliman	067	IQVIA	057
UP Manila	063	Novartis	050
NIH	062	Merck	040
Trop Med	057	AZ/PPD/Pfizer	030 each
Veterans	047	Takeda	009
Lung	046	SDP/Otsuka	003 each
Heart	042	Shionogi	002

PCHRD=Philippine Council for Health Research Development NIH=National Institutes of Health

Philippine Health Research Registry (2017).

http://registry.healthresearch.ph/index.php?option=com_healthregistry&control ler=registry&task=result_list





Roadmap 1. Drug

- Courtesy call at Department of Health (DOH)
- Submission of dossier at CDRR with local partner (FDA Center for Drug Regulation & Research)
- Site selection + local PI and IRB
 - Phase I
 - Phase II-III
 - vaccines



- Online registration
- Research grants

CALL FOR RESEARCH PROPOSALS

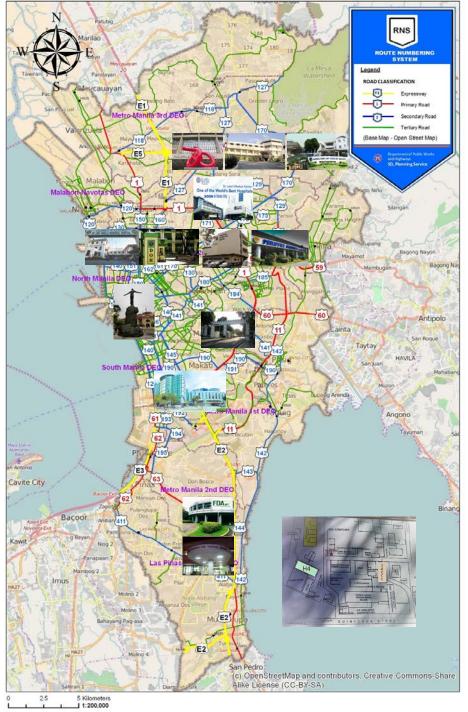
ADVANCING HEALTH THROUGH EVIDENCE-ASSISTED DECISIONS WITH HEALTH POLICY AND STSTEMS RESEARCH (AHEAD-HPSE) PROGRAM

Interested institutions, organizations and revealships are instituted in vibratile to the grapher of the proposal and institution of the common of the c

IRB=Institutional Review Board (Ethics)







Roadmap 2. Device

- Courtesy call at Department of Health (DOH)
- Submission of dossier at CDRRHR with local partner (FDA Center for Device Regulation, Radiation Health, and Research)
- Site selection + local PI and IRB
 - Phase I
 - Phase II-III



Online registration

Research grants

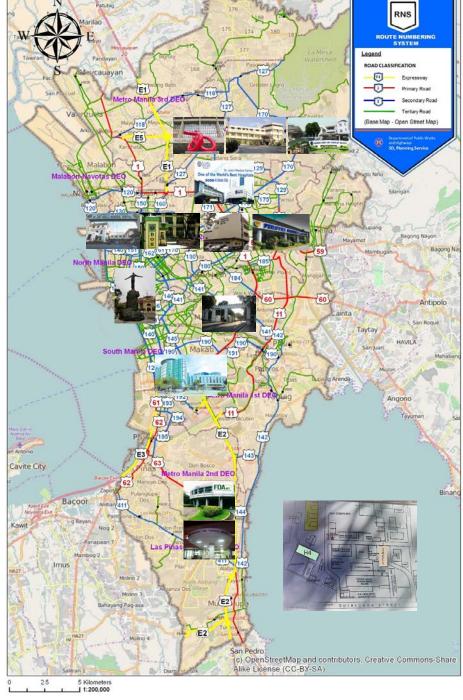
CALL FOR RESEARCH PROPERTY AND ADVANCING HEATH TROUGH EVIDENCE-ASSISTED DECISIONS WITH HEATH POLICY AND STSTEMS RESEARCH (AHEA)—HERS I PROGRAM

Interested intitutions, organizations, organizations are unruled to subsist a full proposal and use of the footer states at Politica Weedlas.

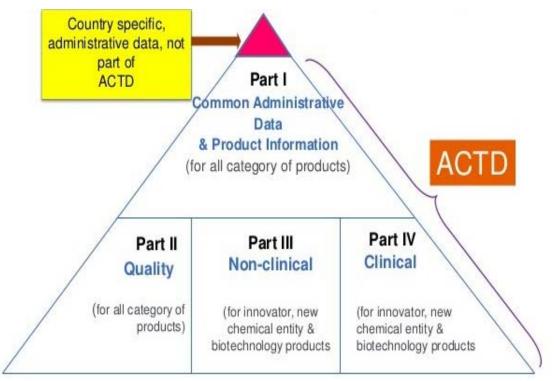
Submit your proposal at projects, pichrd. dest., gov. ph. on. eff. before 2 February 2018

IRB=Institutional Review Board (Ethics)





ACTD Harmonization



	ASEAN Healthcare Market								
		(in USD)							
	Country	Pharma	Devices						
	Japan	\$104-B	\$29-B						
	China	\$65-B	\$13-B						
	India	\$20-B	\$4.2-B						
	Korea	\$15-B	\$5-B						
	Indonesia	\$5.9-B							
	Thailand	\$4.8-B							
	Philippines	\$3.4-B							
	Vietnam	\$3.2-B							
	Malaysia	\$3.1-B							
	Singapore	\$840-M							
	ASEAN	>\$21-B	>\$5-B						

ACTD=ASEAN Common Technical ASEAN=Association of South East GCP=Good Clinical Practice IB=Investigator's Brochure CPR=Certificate of Product | PCIU=Permit for Clinical Inv IRB=Institutional Review Board (E) LTO=License to Operate Contracts: MOU=Memorandum (MOA=Memorandum o



- ASEAN market
- ASEAN Common Technical Dossier (template) and IB
- Country-specific:
 - Application:



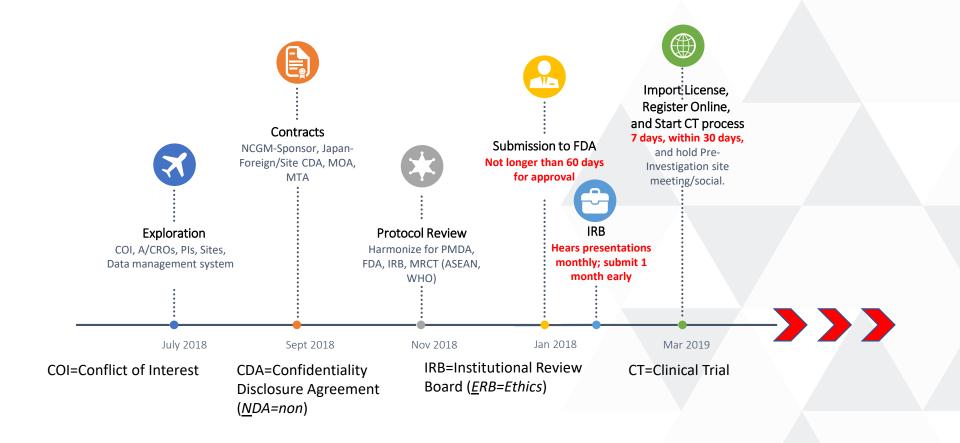
- LTO GCP Risk Sites IRB Pilipino (Informed Consent)
- IB: CPR PCIU Import Permit
- (MOU) MOA MTA
- Fees: FDA Php 2500, IRB Php 15-60k or %
- Regional funding network: e-Asia

Pacific Bridge Medical (2014).

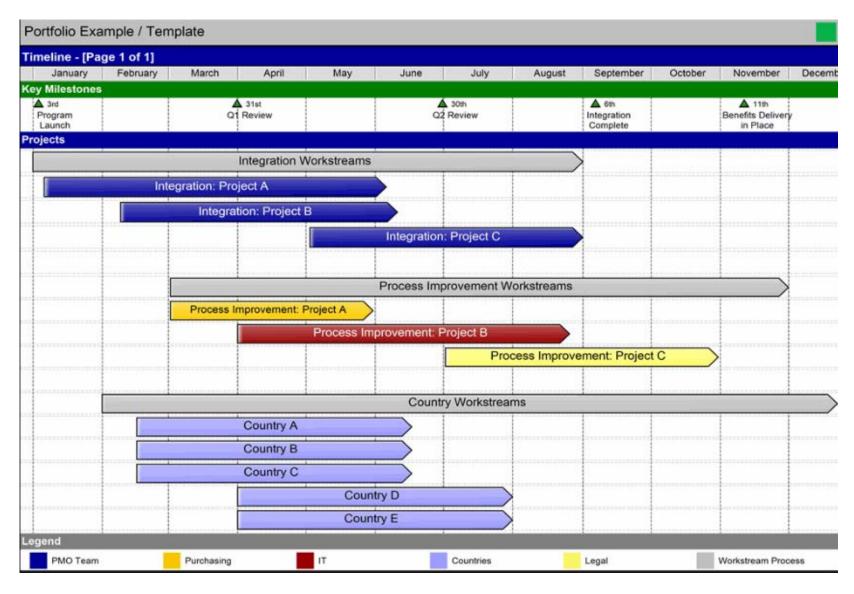


2018 National Center for Global Health and Medicine

Standard Timeline toward Clinical Trials (FDA-Philippines)



Overall target: MRCT Project Portfolio Gantt





Arigatō gozaimasu! ありがとうございます!



Maraming salamat po

