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# **Early Global Development from Sponsor's Point of View**

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# Objective

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**To discuss points to consider for Japan to join G-FIH (Global First-In-Human) study with Western countries, which will be a base for future global Ph2 and Ph 3 development plans**

# Agenda

- **Strength and Weakness of Japan**
- **Eligible Study Site for FIH Study**
  - **Performance**
  - **Ability of study sites**
  - **Ability of investigators/staff**
  - **Extra values**
    - **Non-clinical work**
    - **Investigator Initiated Trials (IITs)**
- **Regulatory Challenges**
- **Summary**

# Strength of Japan

The number of published articles indicate strength in certain DAs<sup>1)</sup>

| Disease Areas                  | Japan      | China     | Korea     | India    | US           |
|--------------------------------|------------|-----------|-----------|----------|--------------|
| <b>Oncology</b>                | <b>62</b>  | <b>6</b>  | <b>4</b>  | <b>1</b> | <b>1,446</b> |
| A&R<br>(Allergy & Respiratory) | 13         | 3         | 1         | 0        | 233          |
| <b>Neurology</b>               | <b>75</b>  | <b>12</b> | <b>5</b>  | <b>1</b> | <b>1,185</b> |
| Pain                           | 2          | 0         | 1         | 0        | 54           |
| <b>CVMED</b>                   | <b>484</b> | <b>60</b> | <b>28</b> | <b>7</b> | <b>6,535</b> |
| <b>Inflammation</b>            | <b>22</b>  | <b>3</b>  | <b>1</b>  | <b>0</b> | <b>339</b>   |
| <b>Immunology</b>              | <b>79</b>  | <b>9</b>  | <b>4</b>  | <b>2</b> | <b>1,247</b> |
| Vaccine                        | 25         | 11        | 2         | 1        | 575          |

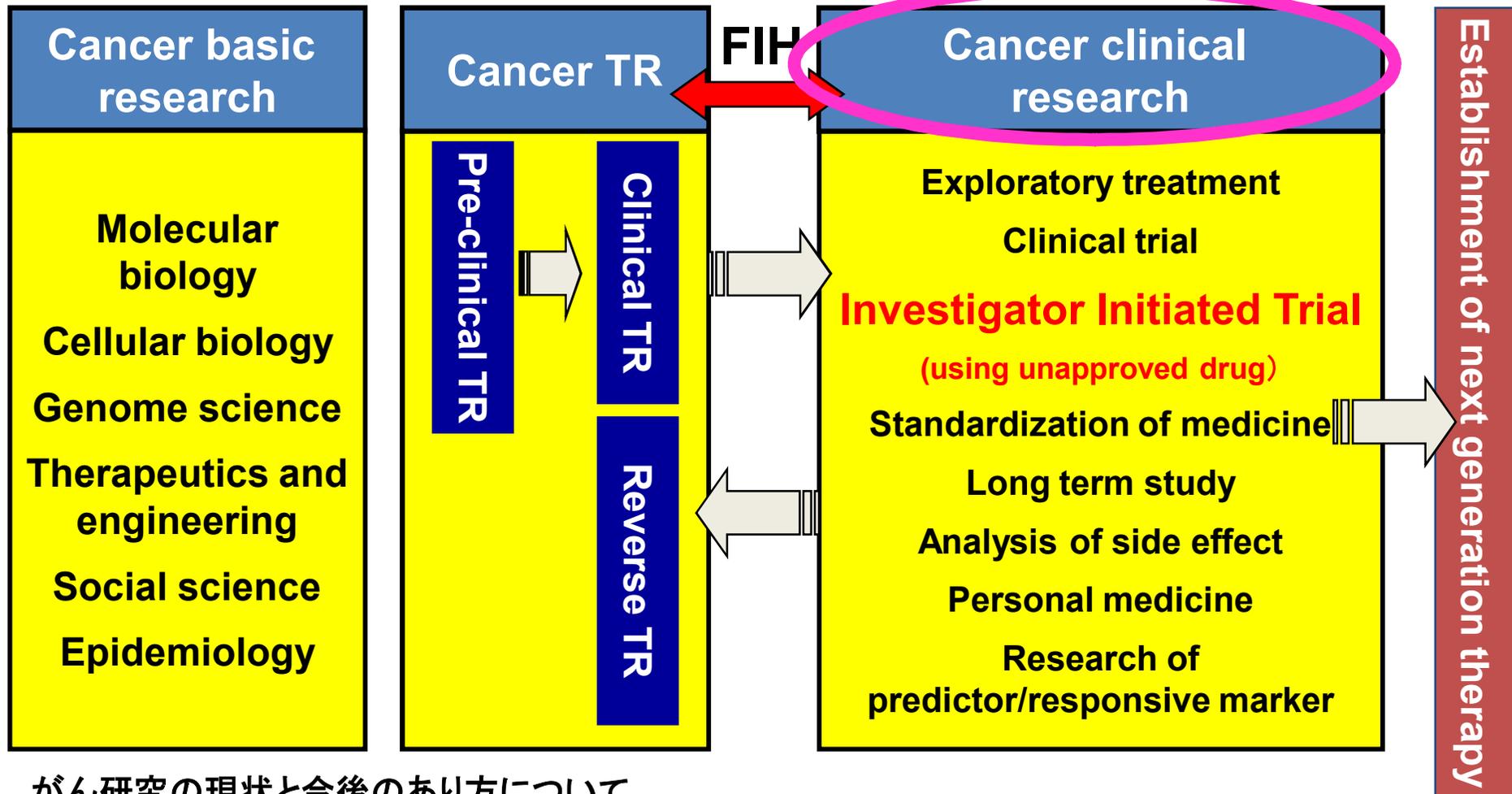
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**Many Japanese researchers are  
collaborating with global researchers**

**Japan is a key global player  
in basic research**

# Weakness of Japan



がん研究の現状と今後のあり方について  
 (平成22年6月25, ライフサイエンス委員会, がん研究戦略作業部会) 改変



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**Lack of experience in  
G-FIH study and IITs,  
coming from / resulting in few  
TR activities**

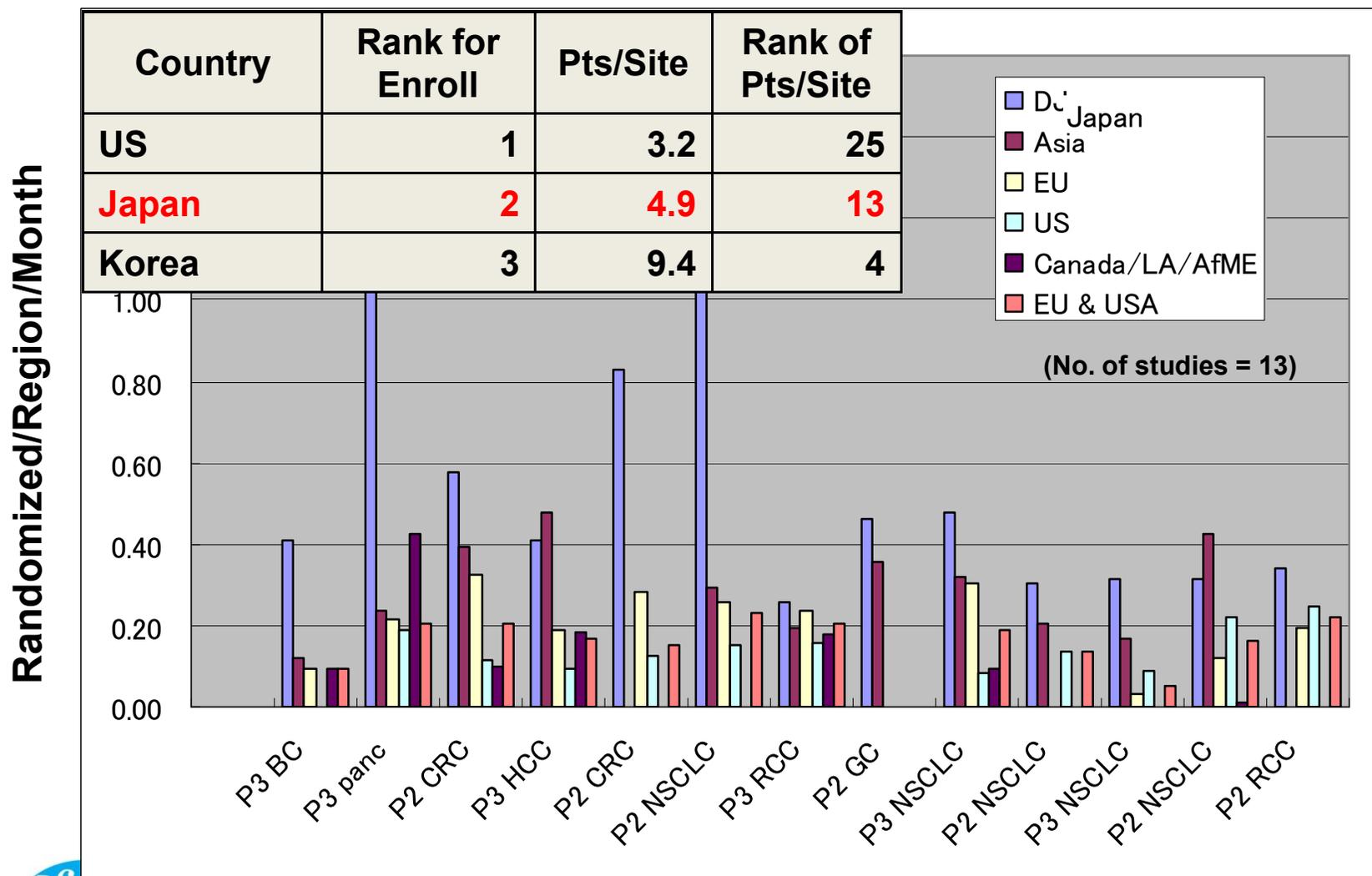
**Japan is not yet a key global  
player in TR and clinical research**

# Eligible Study Site for FIH Study (1)

- **Performance**
  - Enrollment speed in various tumor types
    - Constant enrollment throughout the study period
  - CRF data entry (especially AE)
- Ability of study sites
  - Handling unexpected AEs (dermatology, cardiology etc)
  - Imaging technology, tissue sampling etc.
  - Acceptance of innovative/flexible study design
- Ability of investigators/staff
  - Deep discussion with W-investigators in English
  - In depth knowledge of target molecule

# Enrollment Speed

-Number of Patients/site in Global Studies-



**Enrollment in Japan is competitive in Ph2/3**

**For FIH study...**

**Can we enroll various types of tumors?**

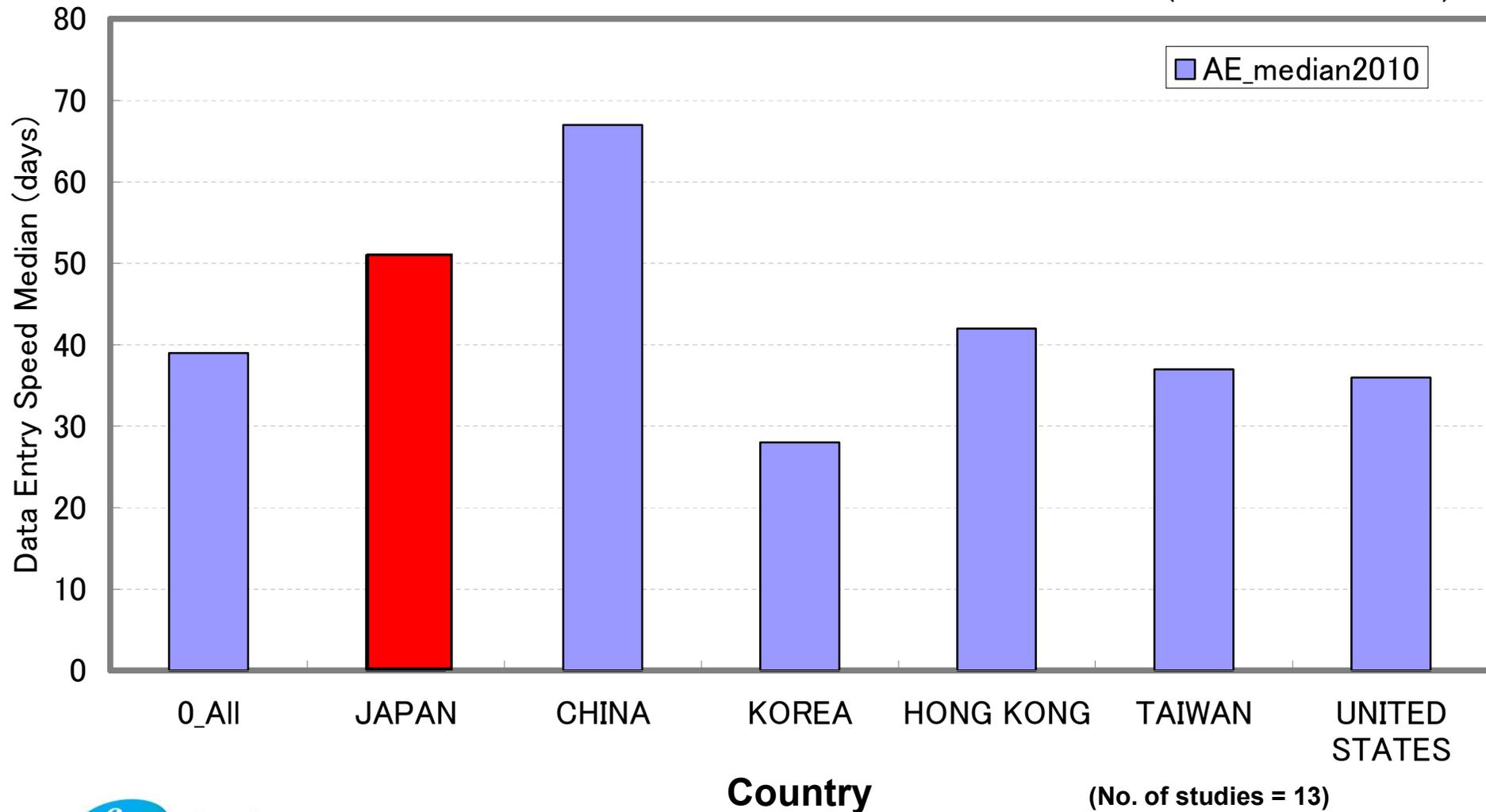
**Can we constantly enroll patients throughout  
the study period?**

**Establish a network with affiliate sites**

# Speed of Data Entry: AE Module

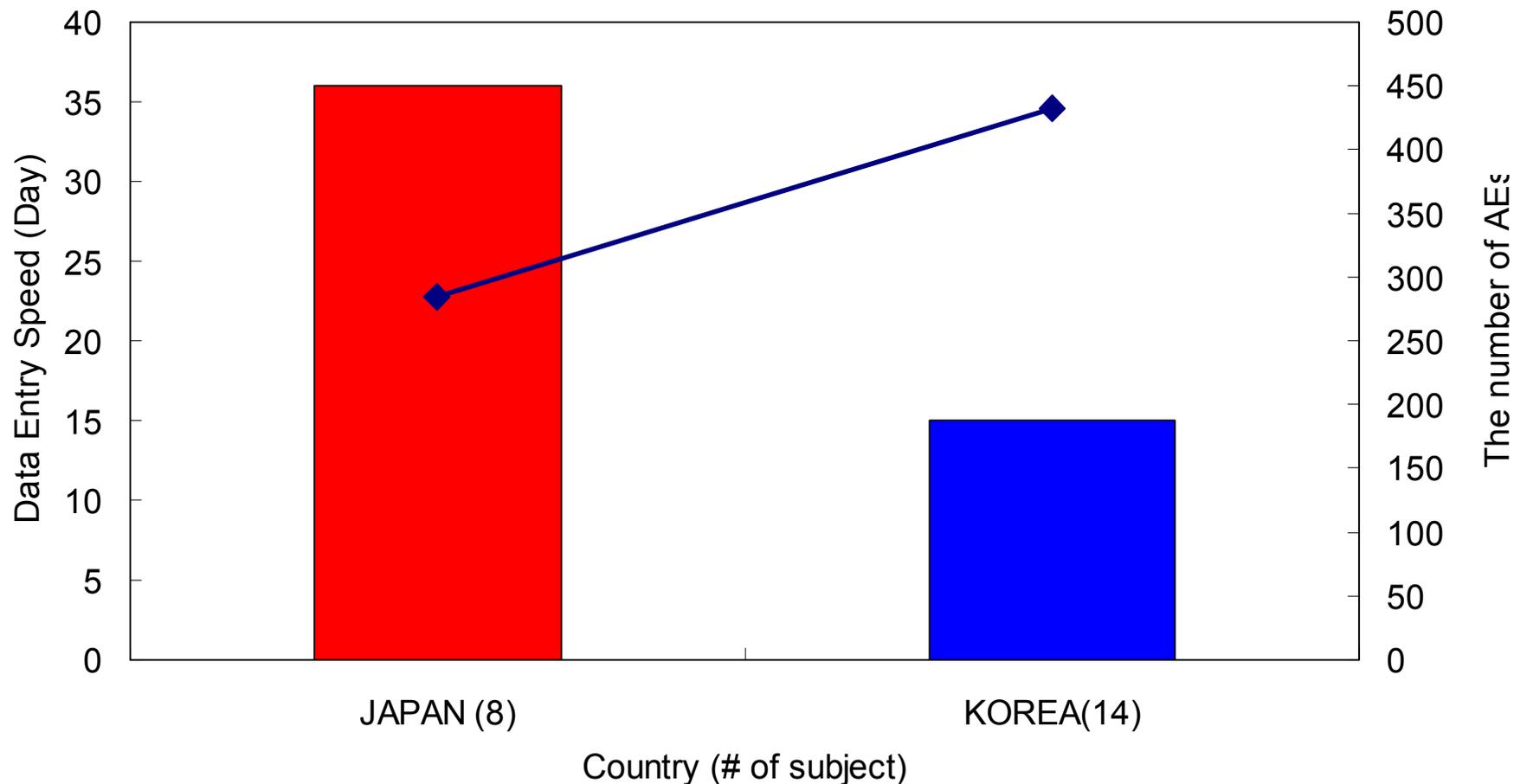
## -Median Number of Days in Global Studies-

(2009DEC – 2010NOV)



# Speed of Data Entry: AE Module

## -Median Number of Days and Number of AEs in a Global Ph1-



(No. of studies = 1)

# Why Prompt Data Entry is Important?

## ALCOA Standard

- Accurate 正確であること
- Legible 判読可能であること
- **Contemporaneous 同時であること**
- Original オリジナルであること
- Attributable 属性を持つこと, 起因性(誰が記載したか、audit trail)

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***Data entry, record, and update must happen  
at same time.***

***Data should be recorded once it is generated  
in order to maintain high quality.***

## Eligible Study Site for FIH study (2)

- Performance
  - Enrollment speed in various tumor types
    - Constant enrollment throughout study period
  - CRF data entry (especially AE)
- **Ability of study sites**
  - Handling of unexpected AEs (dermatology, cardiology etc)
  - Imaging technology, tissue sampling etc.
  - Acceptance of innovative/flexible study design
- **Ability of investigators/staff**
  - Deep discussion with W-investigators in English
  - In depth knowledge of target molecule

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*If these eligibility criteria are met,  
Japan can become a player in global studies*

***Sites with extra values are selected***

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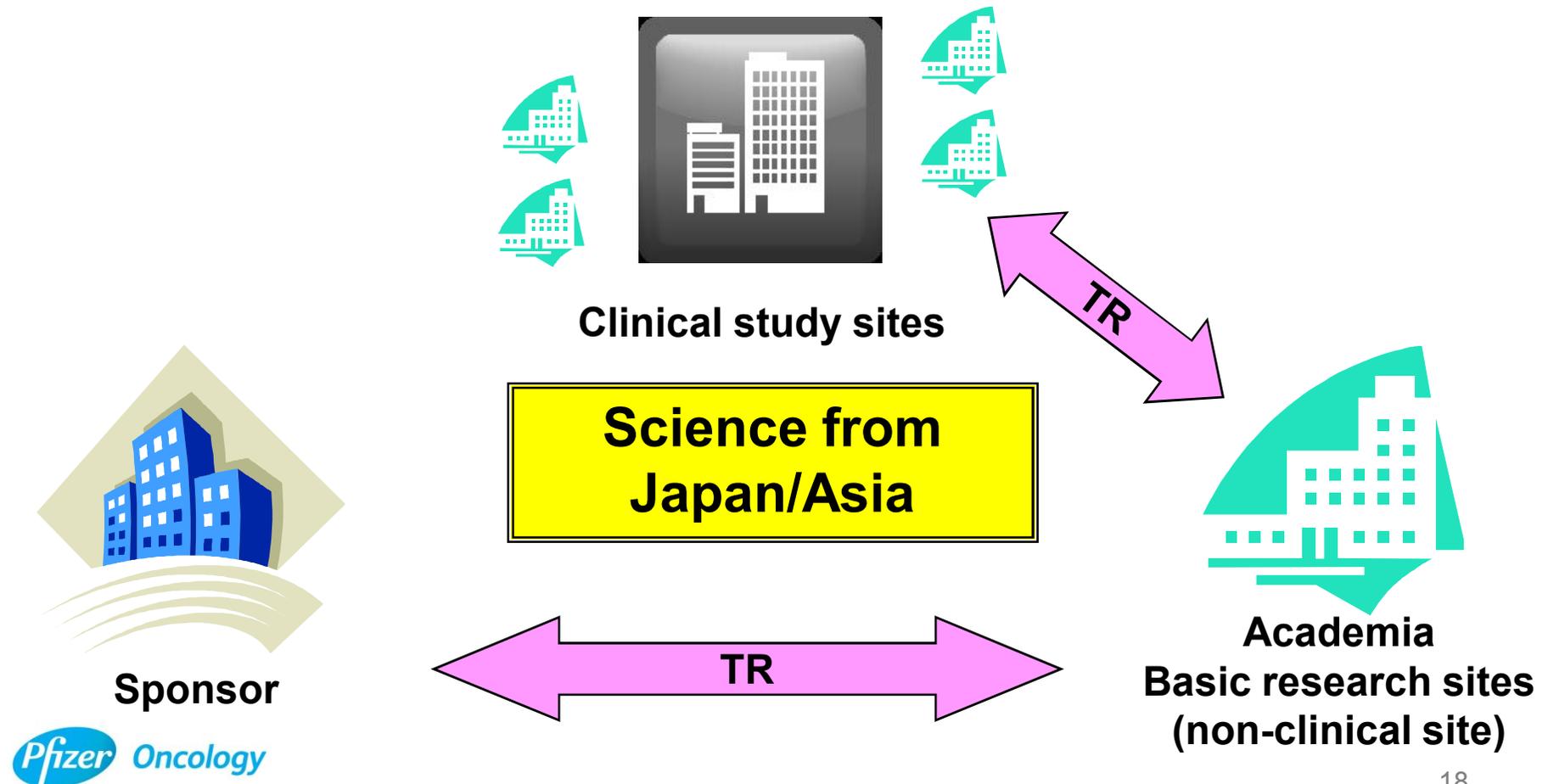
# Extra Values: Proactive research

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- **Proactive involvement in optional tumor sampling and diagnosis assessment (IHC, gene expression profile, etc)**
- **Conduct of additional non-clinical pharmacology studies for other potential indications and/or treatment concepts**

# Extra Values: Proactive Research - Proposal-

Establish collaborations among clinical site,  
non-clinical Sites, and Sponsor



# Extra Values: Investigator Initiated Trials (IITs)

- **Overseas, IITs are conducted after FIH or POM**
- **In Japan, examples of IITs using new agents are limited**
  - **Difficult to get an agreement on IITs from global company**
    - **Hard for global company (HQ) to understand Japan insurance system and clinical research system**
  - **Little knowledge of study sites capable of conducting IITs with new agents under ICH-GCP**

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- ***Study sites should establish a system for IITs***
  - ***PMDA/MHLW and sites should appeal their ability/acceptability of conducting IITs***

# Regulatory Challenges

## *Current situation*

- Few examples of G-FIH study with Western countries in Japan due to concern on ethnic differences
  - Korea can Join G-FIH study with any country
- Data on recommended dose in Japanese is required
  - Concern on safety in Japanese population
- Separate **J-IND/ Protocol** is required when core protocol elements are amended
  - Study objective, design, target population, etc. are frequently modified based on emerging clinical data

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***Sponsor, study sites, and PMDA should work together for Japan to join G-FIH study***

# Summary

- **Strength and weakness of Japan**
  - *Japan is a key global player in basic research, but not yet in TR and clinical research*
- **Eligible study site for FIH study**
  - *Improvement in performance and ability of study sites/investigators/staff is required to be selected for FIH study site*
- **Extra values such as non-clinical work and IITs**
  - *Proactive involvement in optional tumor sampling and diagnosis assessment (IHC, gene expression profile, etc)*
  - *Conduct of additional non-clinical pharmacology studies for other potential indications and/or treatment concepts*
  - *Investigator Initiated Trials*
- **Regulatory challenges**
  - *Sponsor, study sites, and PMDA should work together for Japan to join G-FIH study*

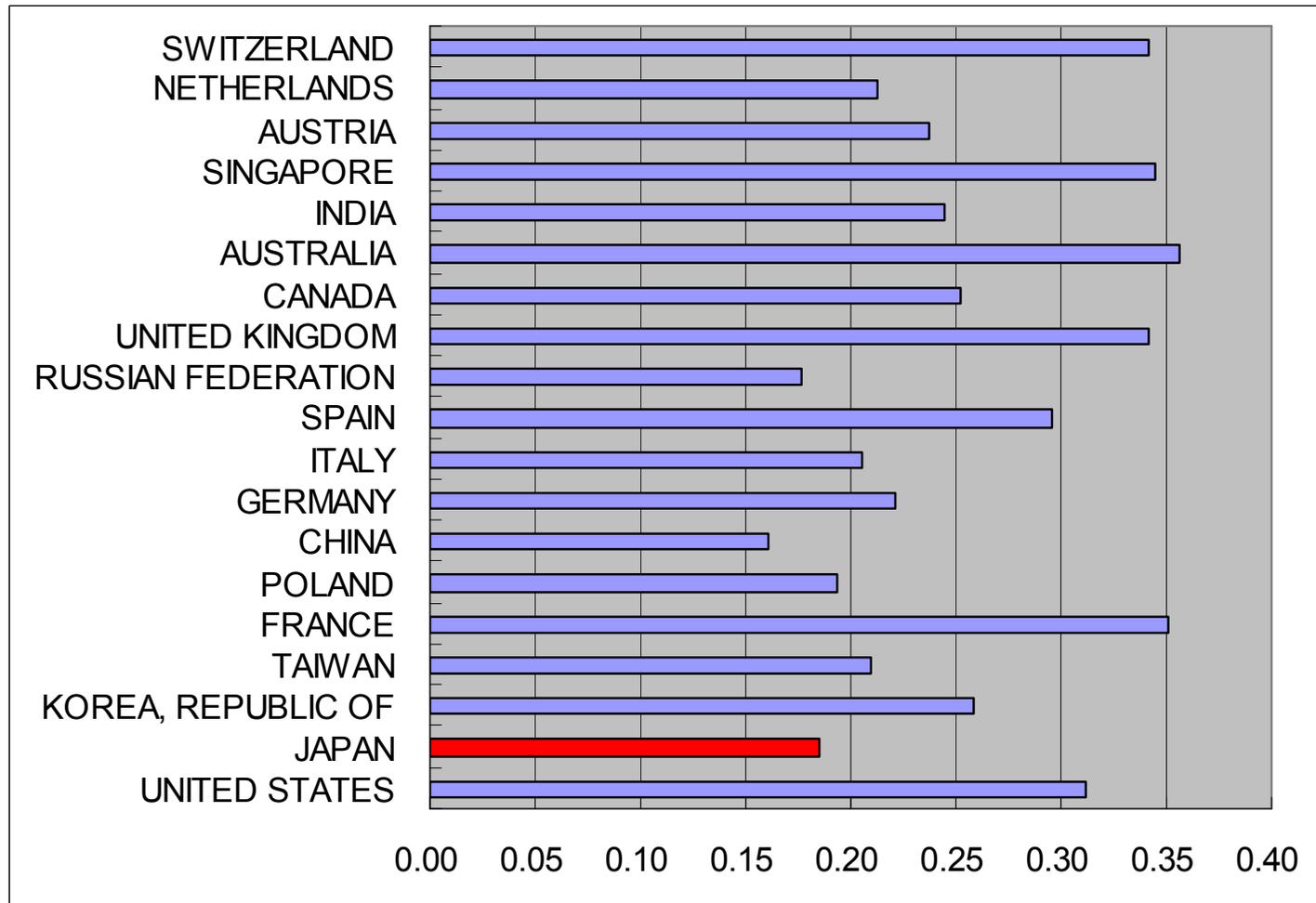
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Thank you for your attention !  
ご静聴ありがとうございました。

# Quality of Data Entry

## -Number of Queries in Global Studies-



Number of Queries/CRF page

(No. of studies = 13)

# Improvement in Perception of Clinical Trials

- **Education of patients**
  - Understand difference between research and treatment
  - Balanced expectation on efficacy and safety
    - In some cases, single agents may not show efficacy
- **Fair message on clinical research from media**