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<sup>1</sup>米国研究製薬工業協会 (PhRMA) <sup>2</sup>欧州製薬団体連合会 (EFPIA)

PhRMA/EFPIAで実施した2017年度の合同調査結果は以下の通りであった。

## 審査期間と承認品目

- 2017年度 (2017年4月～2018年3月) にPhRMA及びEFPIA加盟会社で承認された新医薬品は54品目で、そのうち通常審査品目は31品目であり、審査期間は80%tileで11.2ヵ月であった。
- 公知申請を含む優先審査品目は23品目で、70% tileで9ヵ月であった。
- 審査期間のラグは解消してきているが、同時申請にはまだ改善の余地があり、早期開発戦略の検討、諸制度の活用及び国際調和による日本特有の要件の緩和があげられる。
- 日米欧での迅速制度の利用状況については、FDAが一番多く複数の制度が利用されており、制度の利用状況には品目によって当局別で差があった。

## 開発品目

- 2017年度に開発中のプロジェクト数は527であり、668試験が実施されていた。そのうち国際共同治験は493試験であり、74%を占めていた。また開発中のプロジェクト数のうち約半数は新有効成分であった。
- 疾患領域として抗悪性腫瘍薬が多く、全体の49%を占めていた。また欧米と同時申請を目指しているものは全体の61%を占めており、増加傾向にあった。
- 先駆け審査指定制度は、外資系企業の指定希望の割合が依然として低く、比較して米国、欧州の早期承認制度 (Breakthrough、PRIME) 指定希望の割合が高かった。
- 小児開発については、全プロジェクトのうち18%程度で開発が進められており (予定を含む)、半数が成人適応承認後の後追い開発であった。
- 国際共同治験に参画する前の対面助言は約半数の47%で行われた。対面助言によりプロトコル変更の指示は48%に認められた。そのうち日本人症例数の変更指示は35%であり、その54%で指示通りに症例数を変更した。

## PMS調査

- PMS調査は承認品目の81%で実施され、その半数は全例調査であった。2018年4月に施行された改正GPSP省令の影響により、データベースを用いた調査も7%実施されている。改正GPSPの浸透、更にはICT基盤法施行に伴い、今後データベース調査の更なる増加が期待される。

## Introduction

### PhRMA/EFPIA Performance Metrics Survey 2018

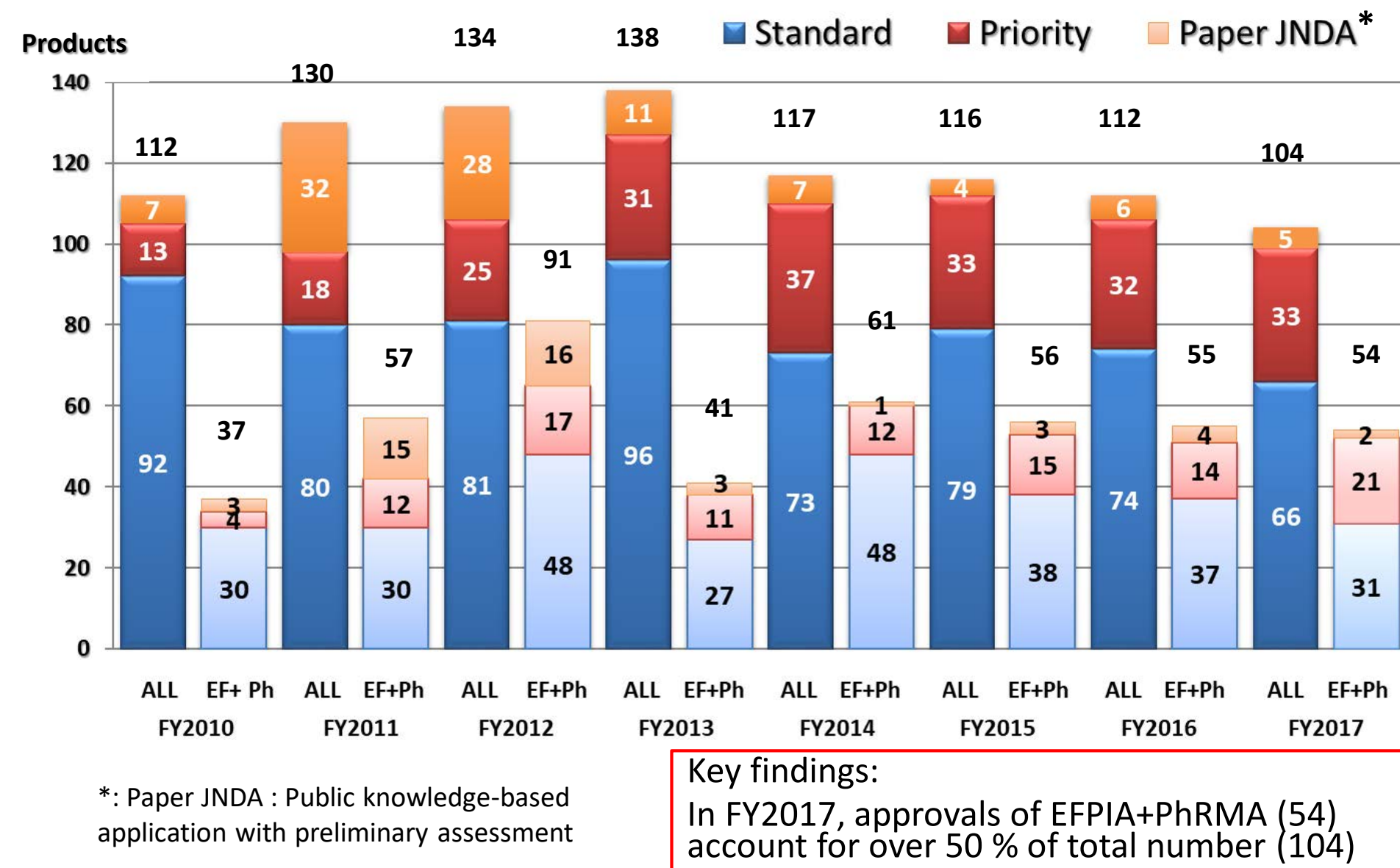
- Review Time
  - Drug approvals in FY2017
  - Background, Review time
  - Regulatory Pathways in JP, US and EU
- Global Study and Local Study
  - Number of Global and Local studies
  - Therapeutic area of Global and Local studies
  - Interaction with the Agency
- PMS
  - Baseline data of PMS in approved projects

### Executive Summary of the Survey

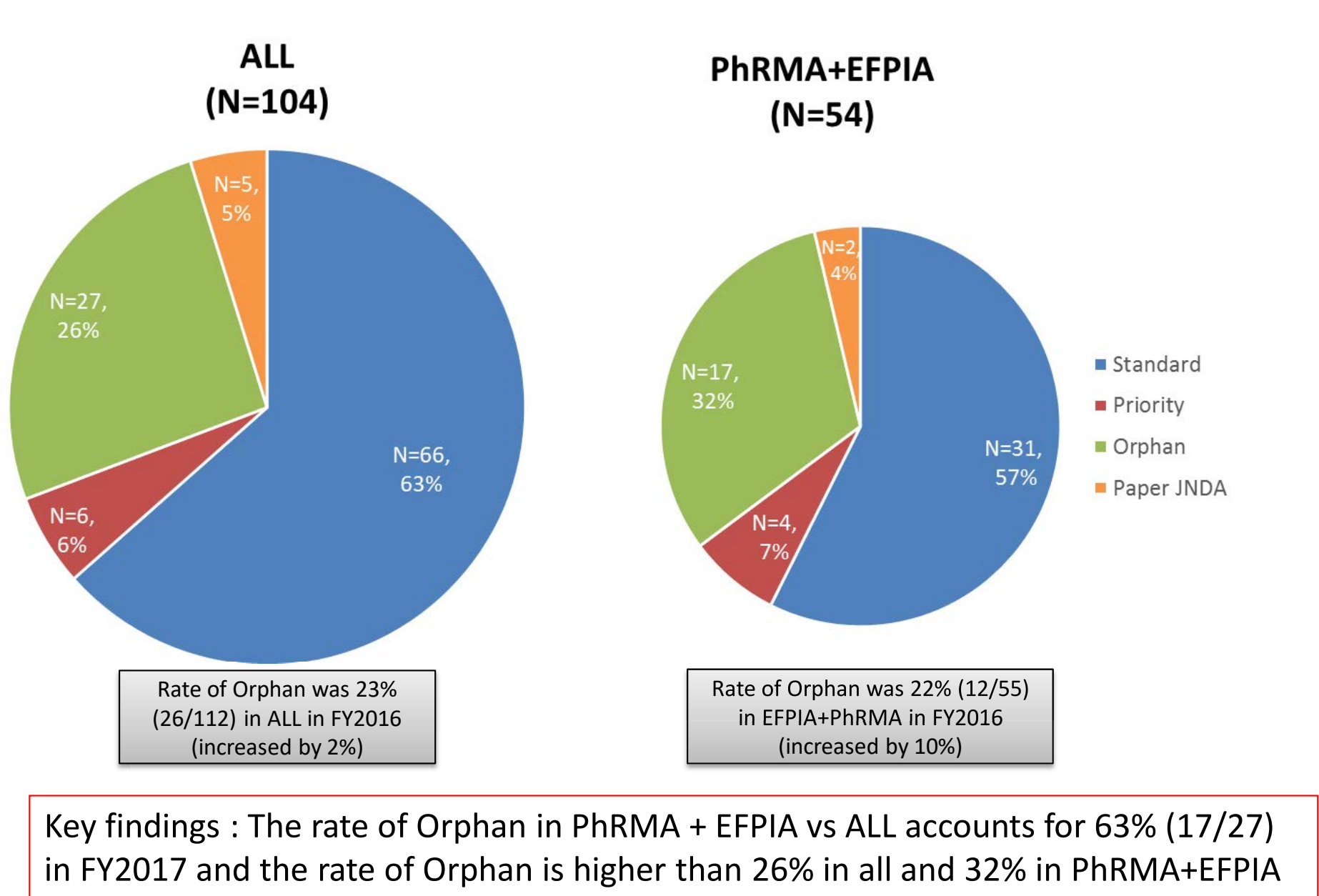
- Scope:
  - Review Time
    - Drugs approved in FY2017 (April 2017 to March 2018)
    - Global and Local Studies
    - Clinical studies initiated/continued/completed during FY2017
- Companies involved:
  - PhRMA (11 companies)
    - Abbvie, Alexion, Amgen, Astellas BioPharma, Biogen Japan, Bristol-Myers Squibb, Celgene, Eli Lilly, Janssen, MSD, Mundipharma, and Pfizer
  - EFPIA (17 companies)
    - Actelion, AstraZeneca, Bayer, CHUGAI, CSL Behring, Ferring, GlaxoSmithKline, Janssen, LEO, Lundbeck, Merck Serono, Boehringer Ingelheim, Novartis, Novo Nordisk, Sanofi, Shire, and UCB

## Review Period

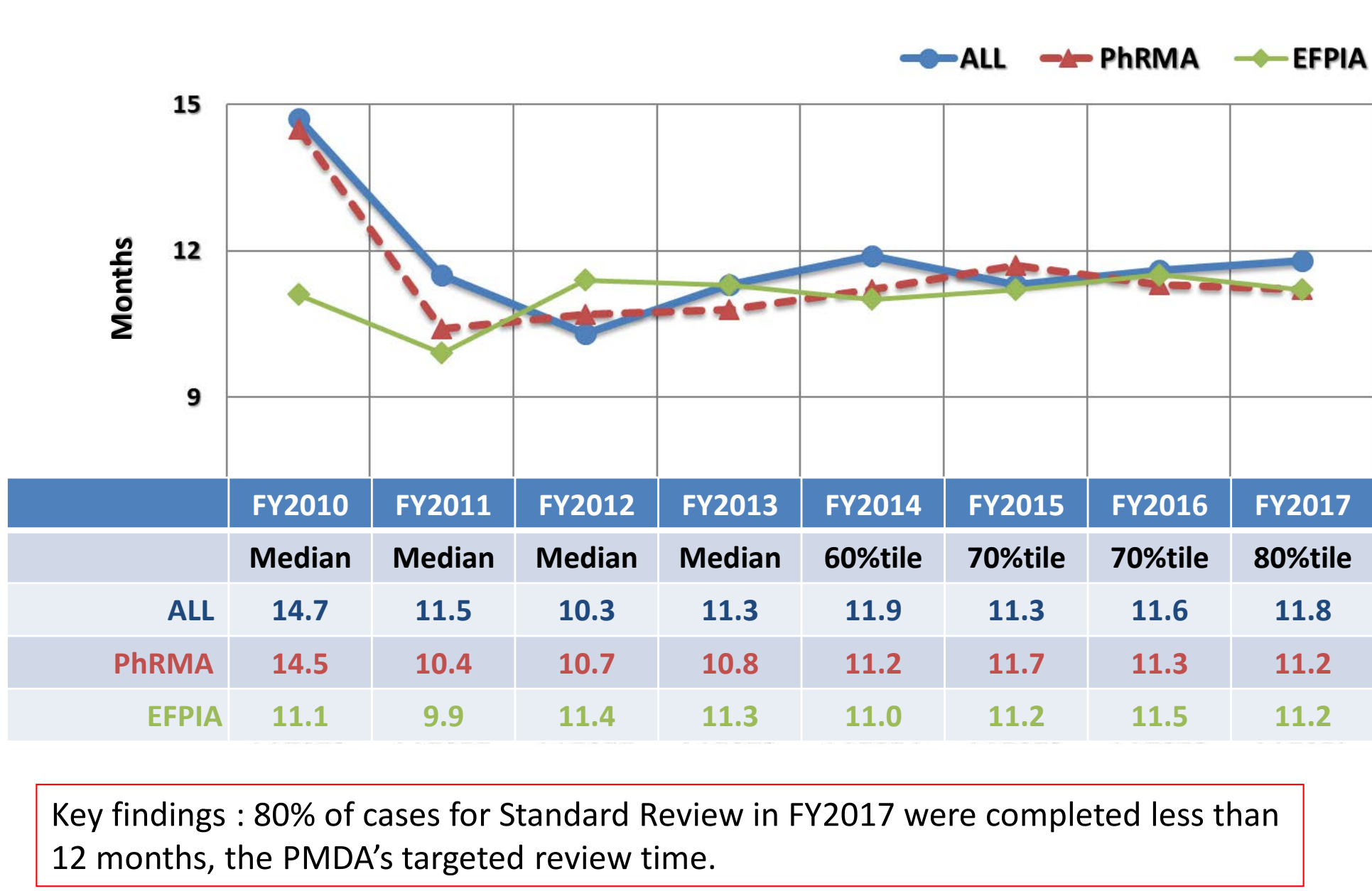
### The Number of Drug Approvals in Japan



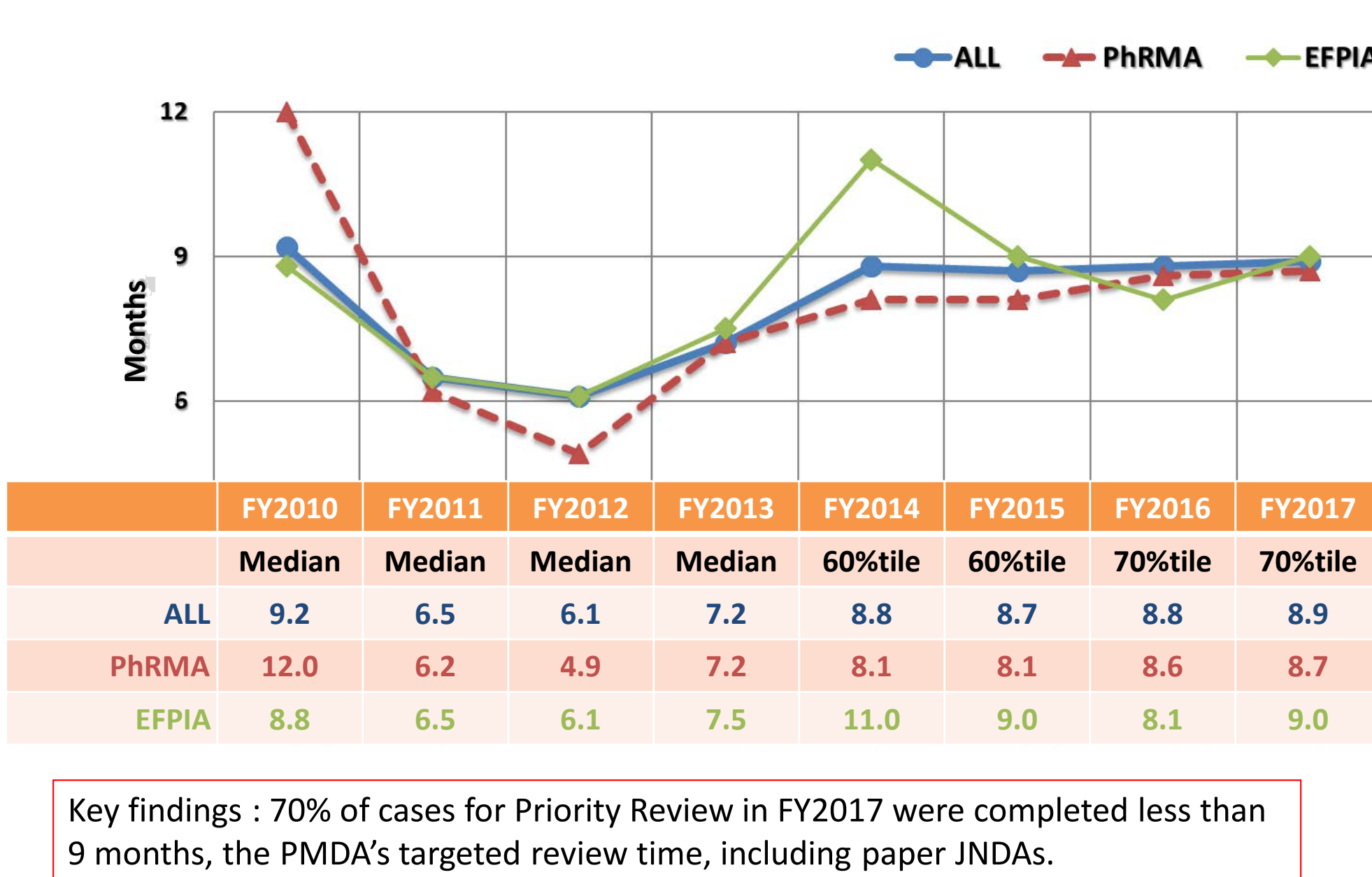
### Review Category of Approvals in FY2017



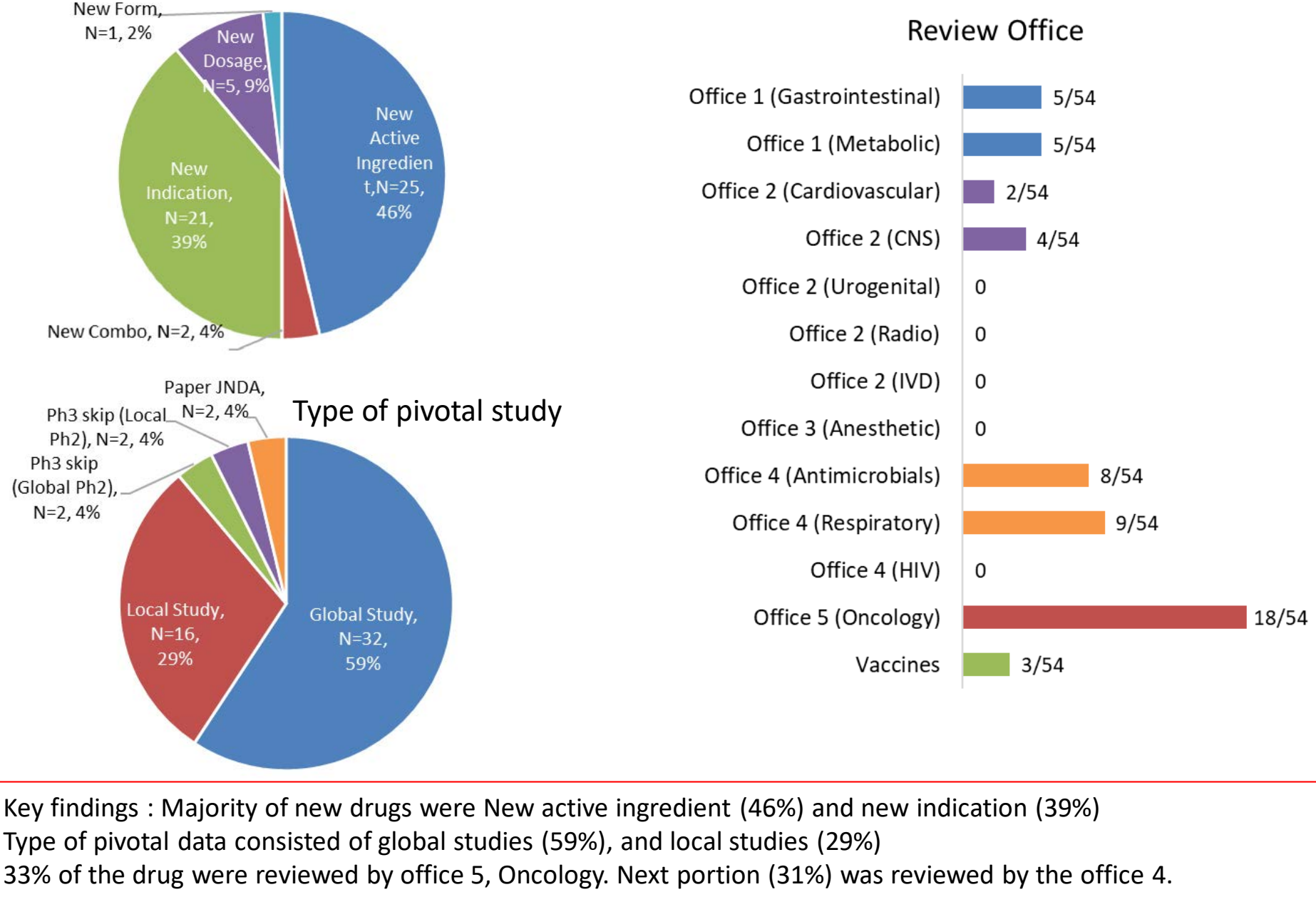
### Standard Review



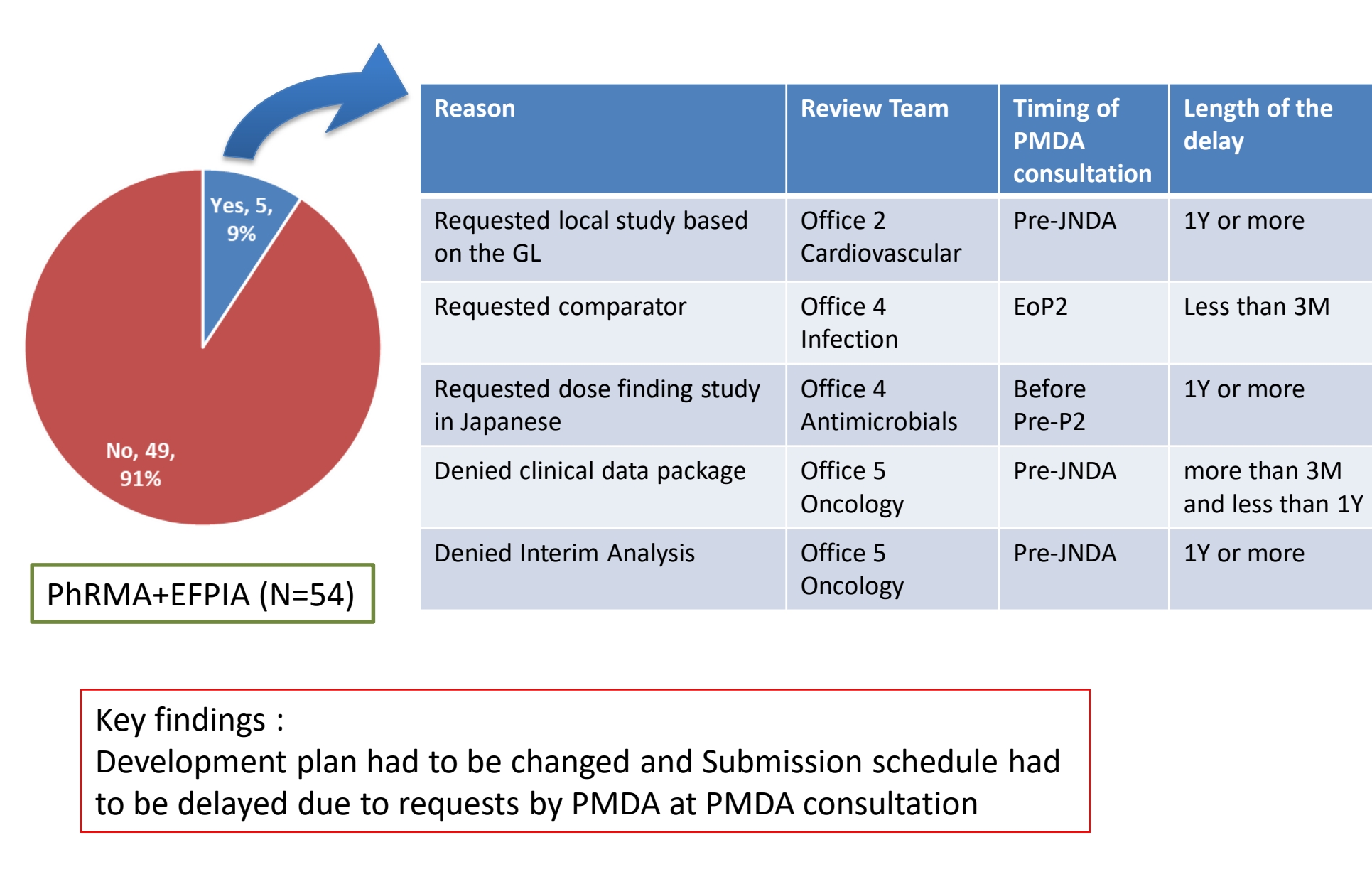
### Priority Review Including Paper JNDAs



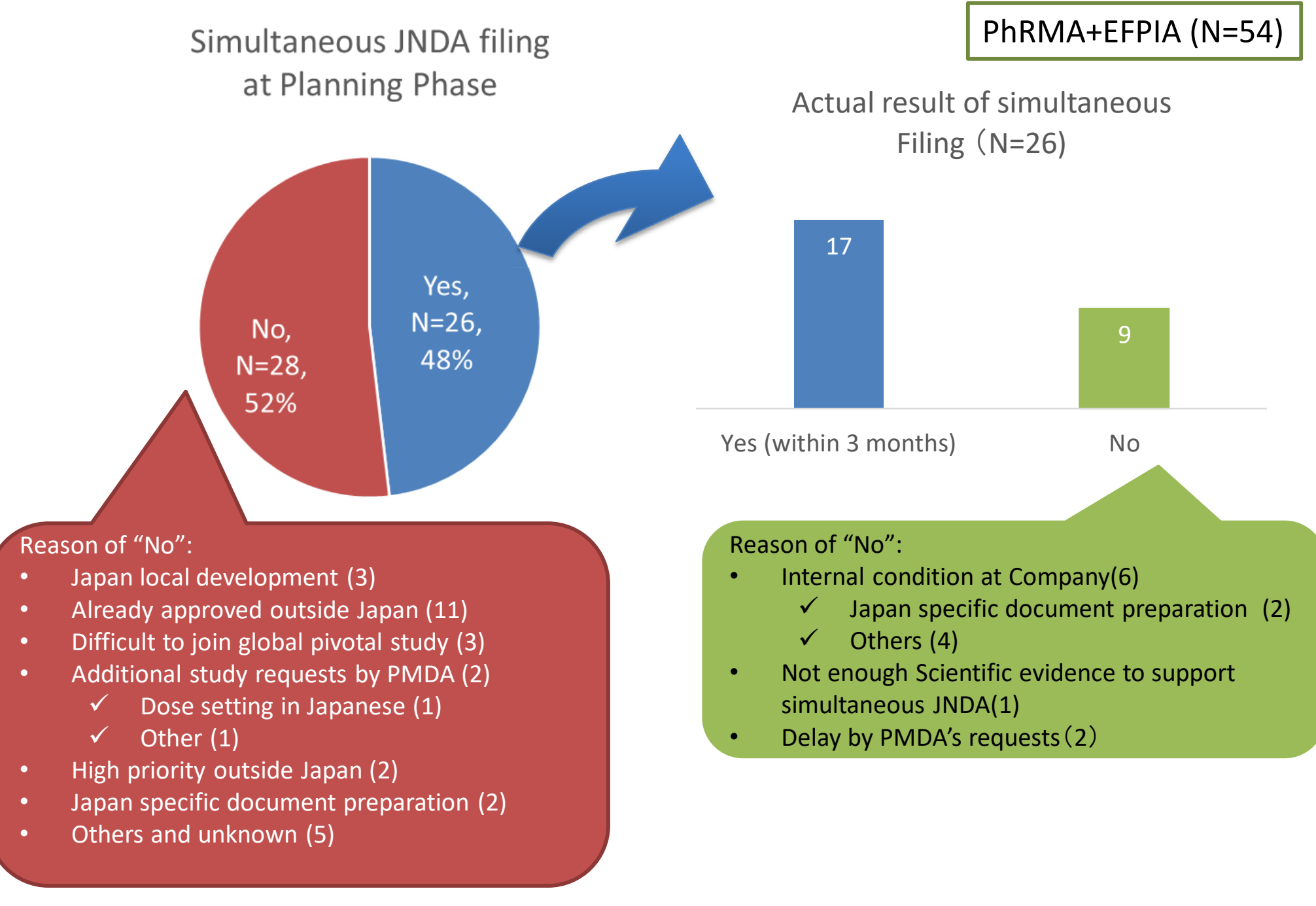
### Category of New Drug Approvals including NME and LCM



### Impact on Development Plan and Submission Timeline after PMDA Consultation



### Simultaneous JNDA Filing



### Suggestions for Improvement on the Submission Lag

**By Applicant(s) :**

- Prioritize product development
- Secure resources including Global
- Evaluate unmet medical needs in Japan
- Construct processes that enables determination of development at an early stage in Japan
- Make Japan development strategies at an early stage and align with global
- Get a consensus for CTD preparation scheme at an early stage
- Consider the timing of licensing-in of product from other company

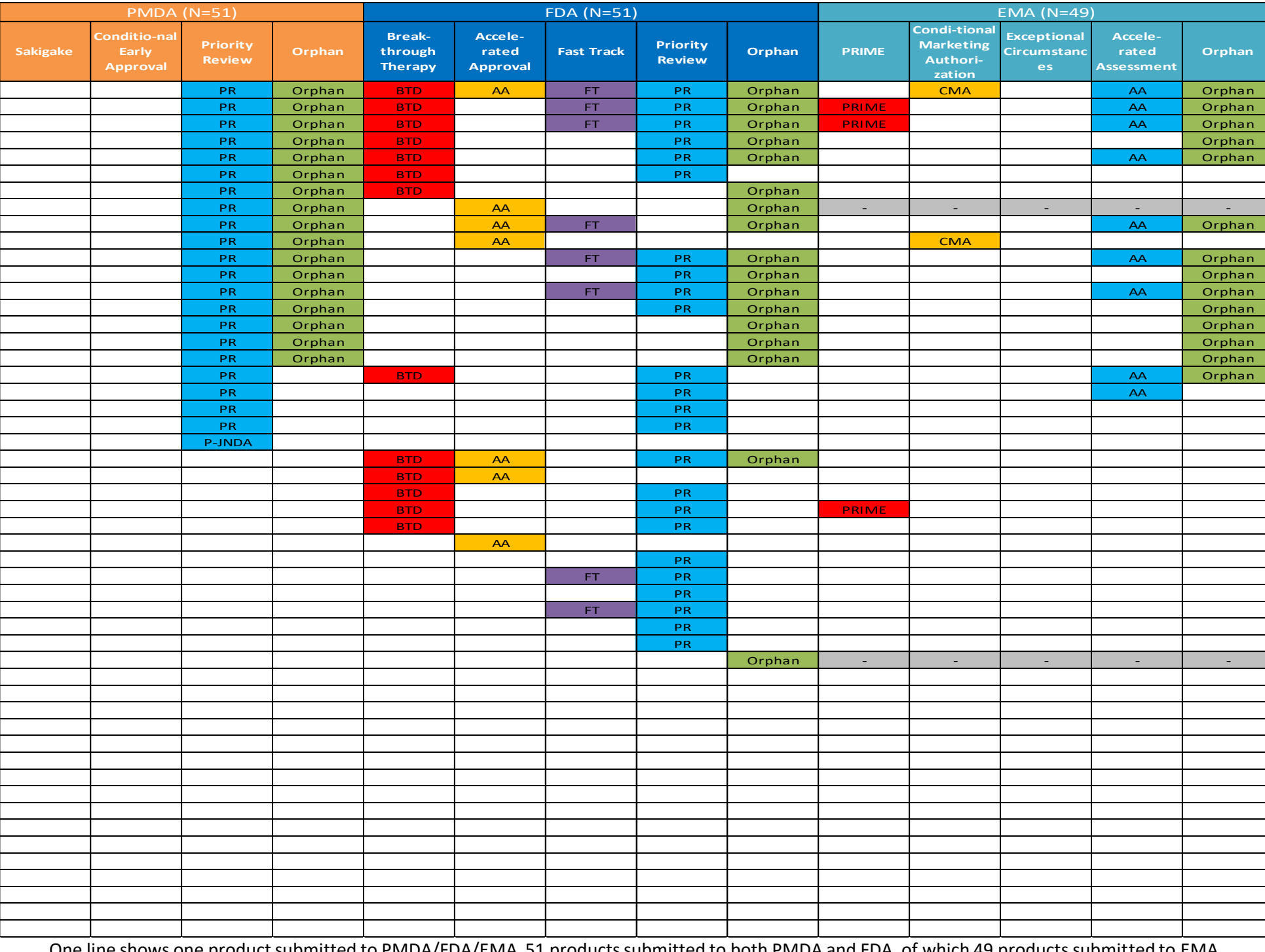
**To HAs :**

- Promote utilization of the current regulatory system and Strengthen PMDA organization
- Accept CTD in English and relax the Japan specific requirement for CTD preparation
- Review and revise Japan specific GL, e.g., long term clinical study for chronic disease
- Promote globalization of CMC documents and Japan pharmacopoeia
- Be flexible to accept global clinical data and joining MRCT

**Key Findings:**

- NOT simultaneous submission from the beginning:**  
The delay to start development in Japan, not participation in MRCT, required additional CT and the necessity of preparing documents for JNDA requested by PMDA
- Not achieved simultaneous submission:**  
The necessity of preparing documents for JNDA, the additional request from PMDA and one case due to clinical trials results

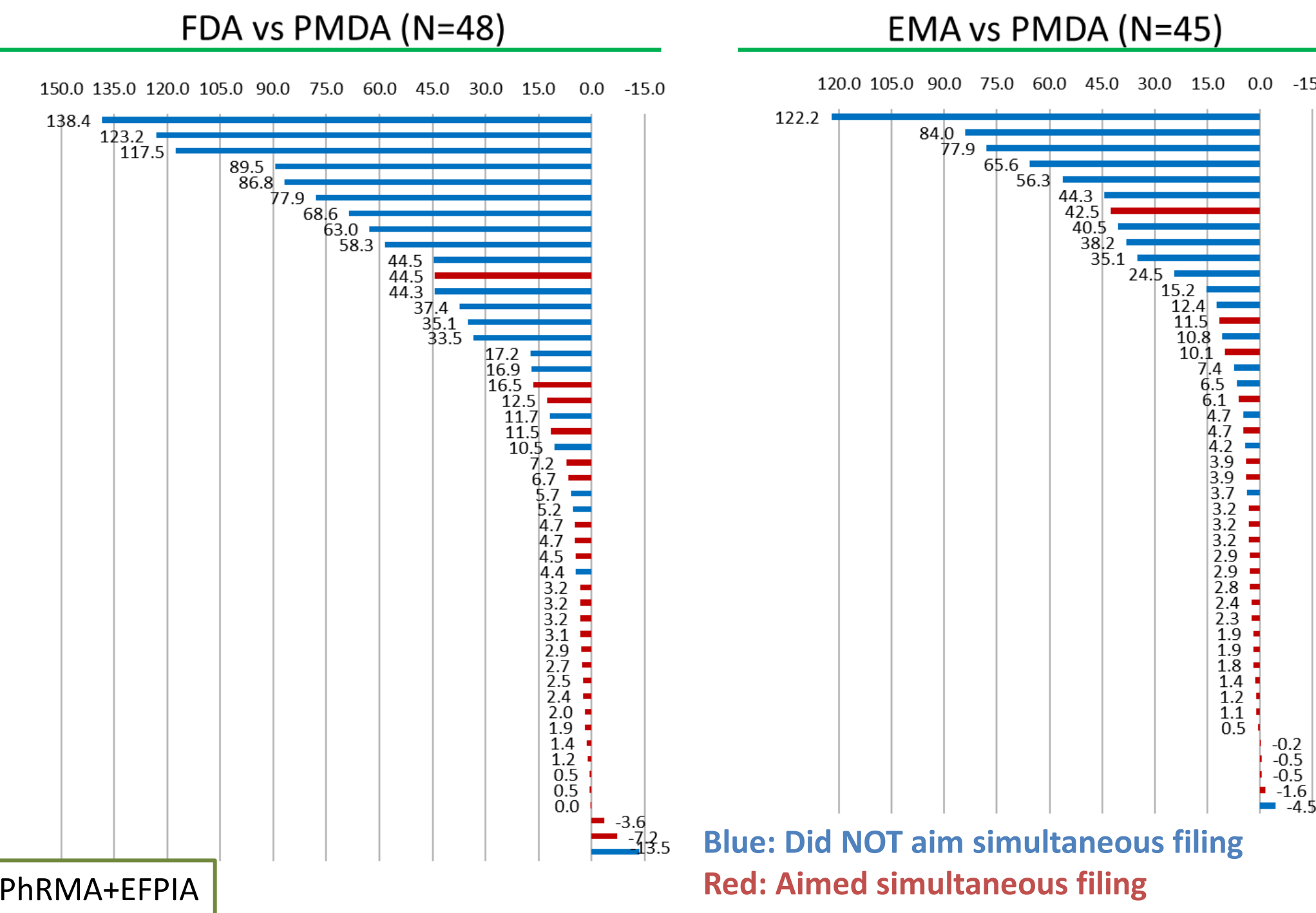
### Utilization of Expedited Program



### Key findings on Expedited Programs

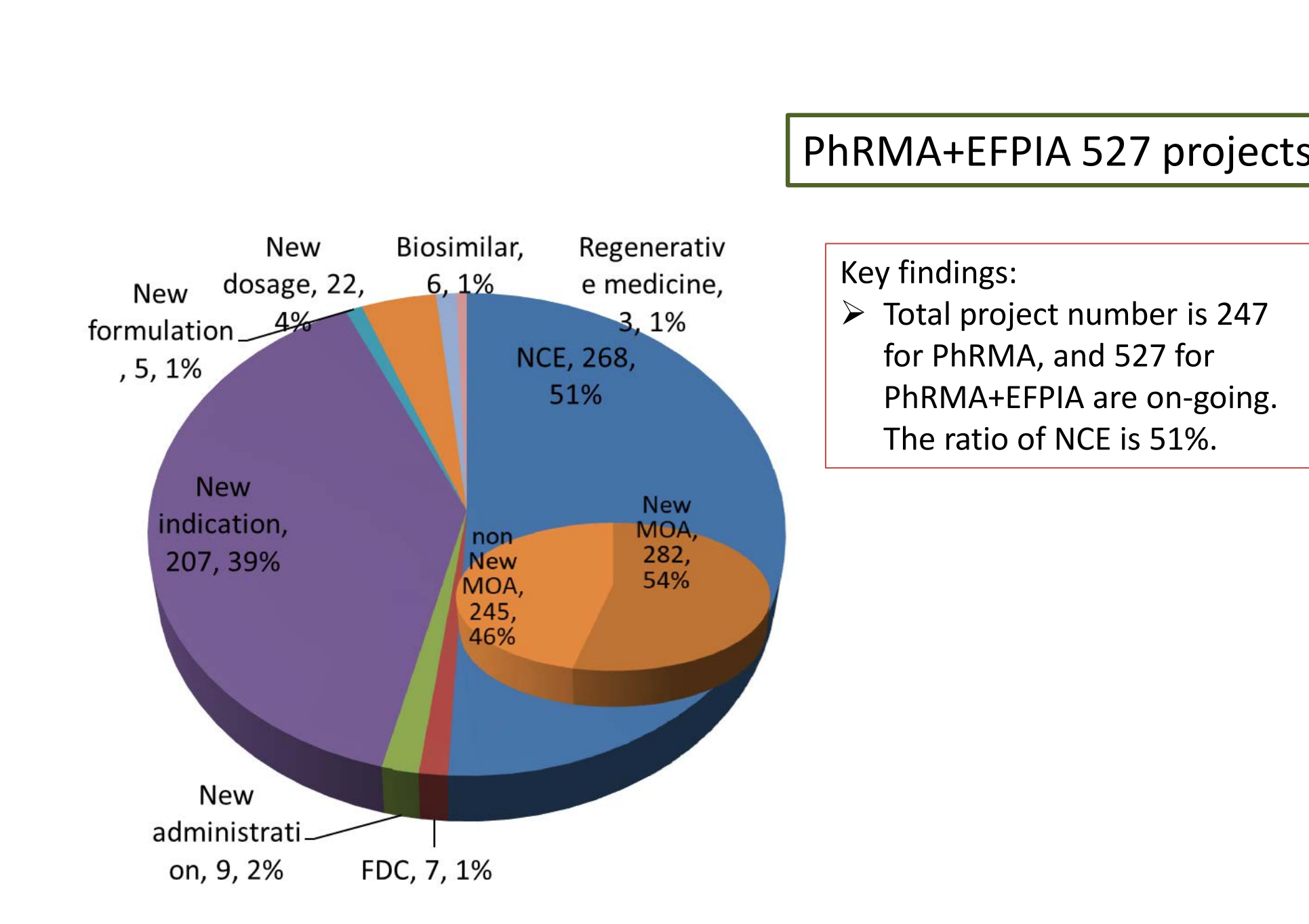
- Expedited program is widely used in the US. But the variety of program is comparable between 3 Health Authorities.
  - FDA was the agency with the shortest approval time in 2017 (243days), likely due to the wide use of these pathways\*.
  - 16/51 projects(31%) were reviewed as standard in JP/US/EU
- | Facilitated Regulatory Pathways          | PMDA (n=51) | FDA (n=51) | EMA (n=49) |
|--|-------------|------------|------------|
| Sakigake, Breakthrough Therapy           | 0           | 13 (25%)   | 3 (6%)     |
| PRIME                                    | 0           | 7 (14%)    | 2 (4%)     |
| Conditional Early Approval               | 0           | 7 (14%)    | 2 (4%)     |
| Accelerated Approval                     | 0           | 7 (14%)    | 2 (4%)     |
| Conditional Marketed Authorization       | 0           | 7 (14%)    | 2 (4%)     |
| Fast track                               | 0           | 8 (16%)    | 0          |
| Priority Review                          | 22 (43%)    | 24 (47%)   | 9 (18%)    |
| Accelerated Assessment                   | 22 (43%)    | 24 (47%)   | 9 (18%)    |
| Orphan                                   | 17 (33%)    | 17 (33%)   | 14 (29%)   |
| Projects utilizing at least 1 Pathway(s) | 22 (43%)    | 34 (67%)   | 17 (34%)   |
- 51 products submitted to both PMDA and FDA, of which 49 products submitted to EMA.  
 \* Centre for Innovation in Regulatory Science(CIRS), May 2018, R&D Briefing

### Submission Lag (months) including NME and LCM

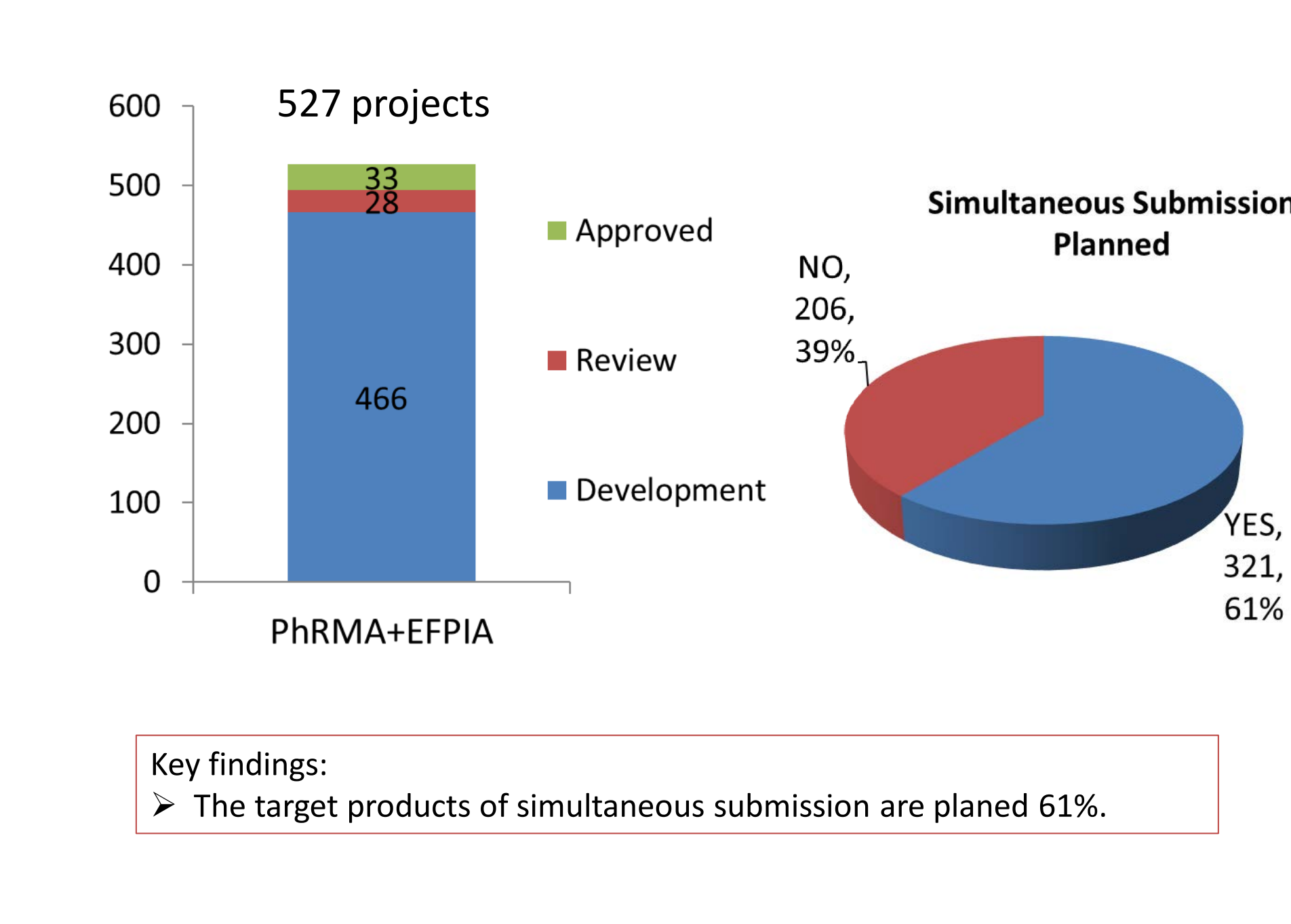


## Clinical Studies and Development Plan

### Total Projects in FY2017

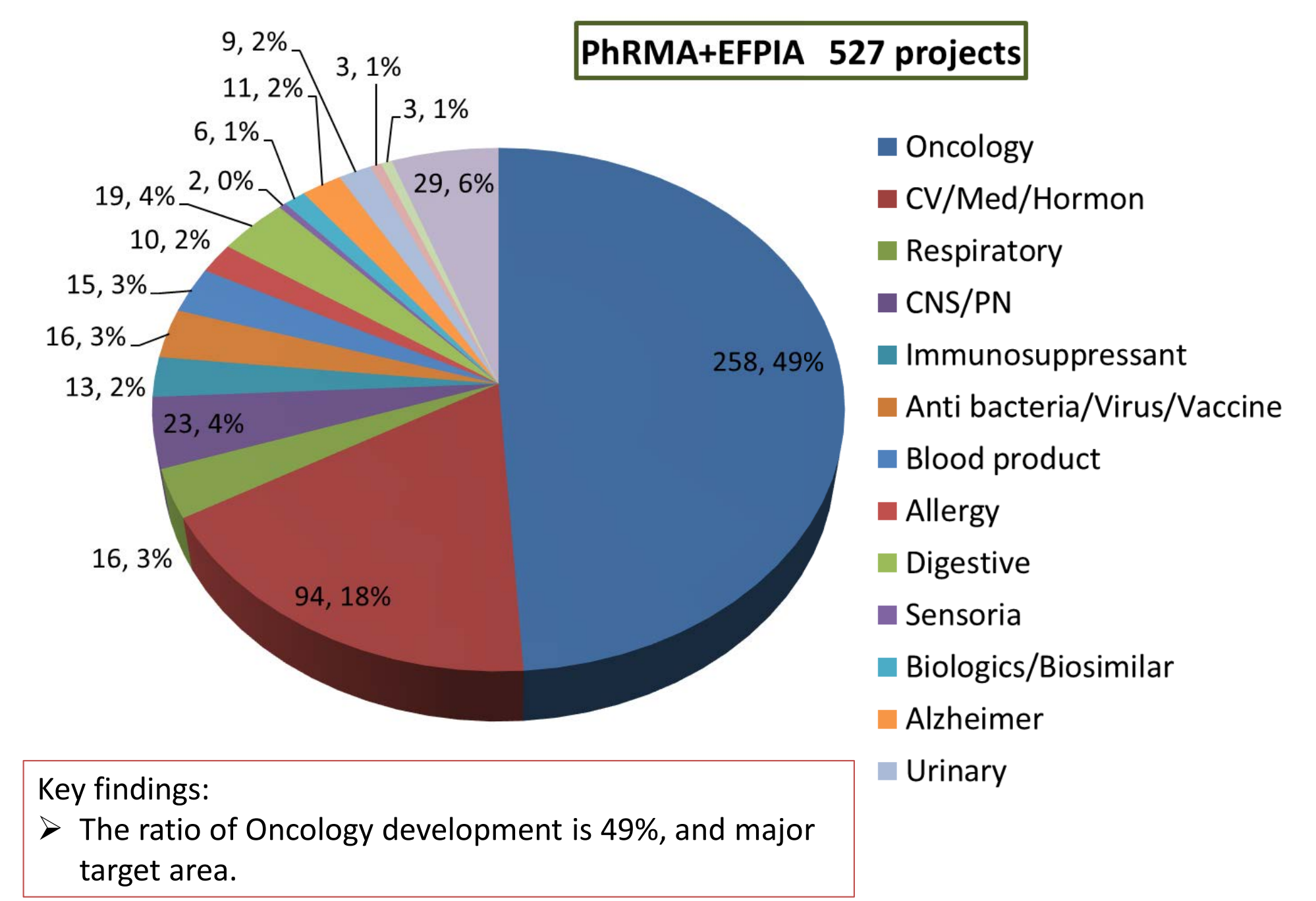


### Development Status in FY2017

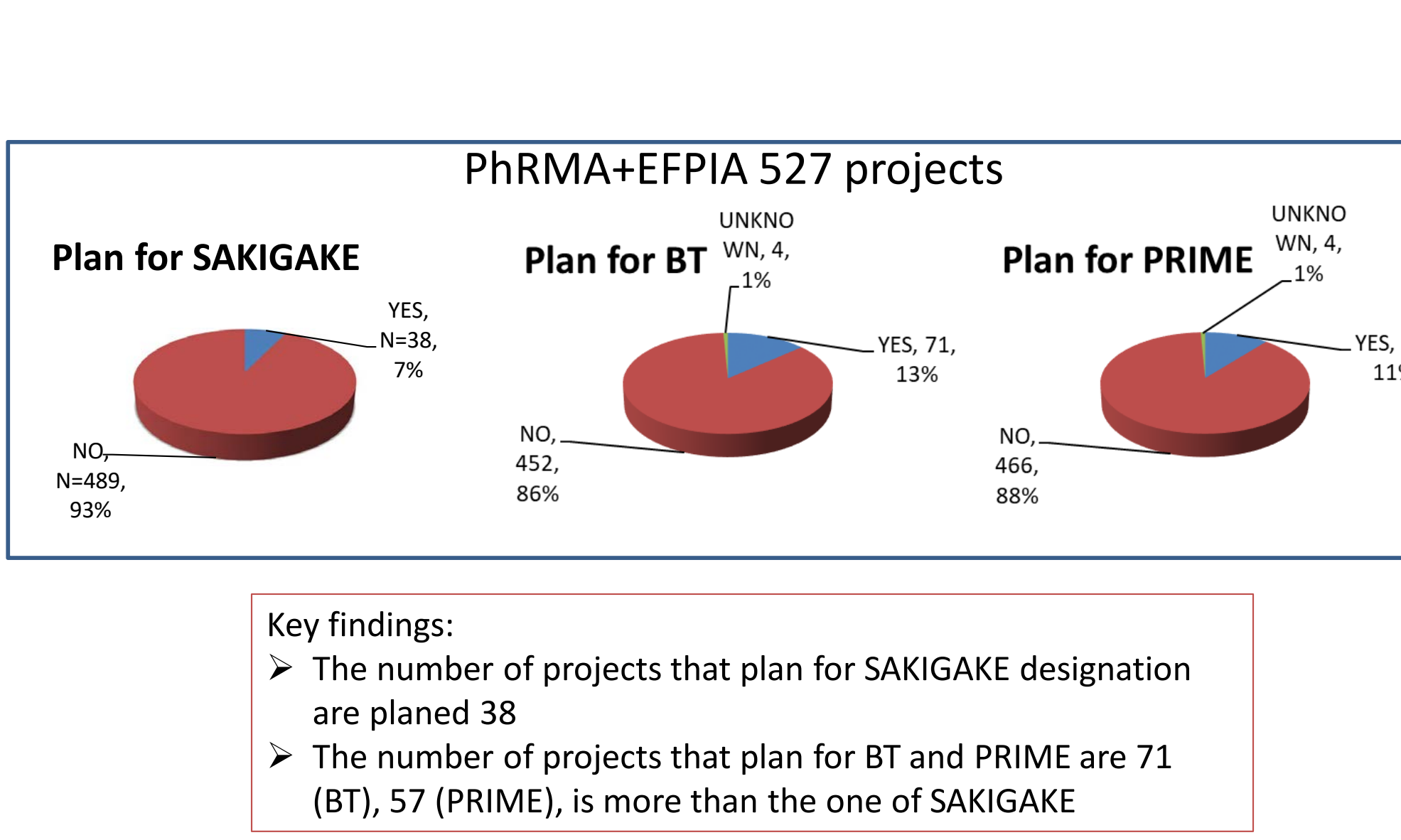


Note: The following data include the studies already completed or terminated regardless of reasons in addition to ongoing studies

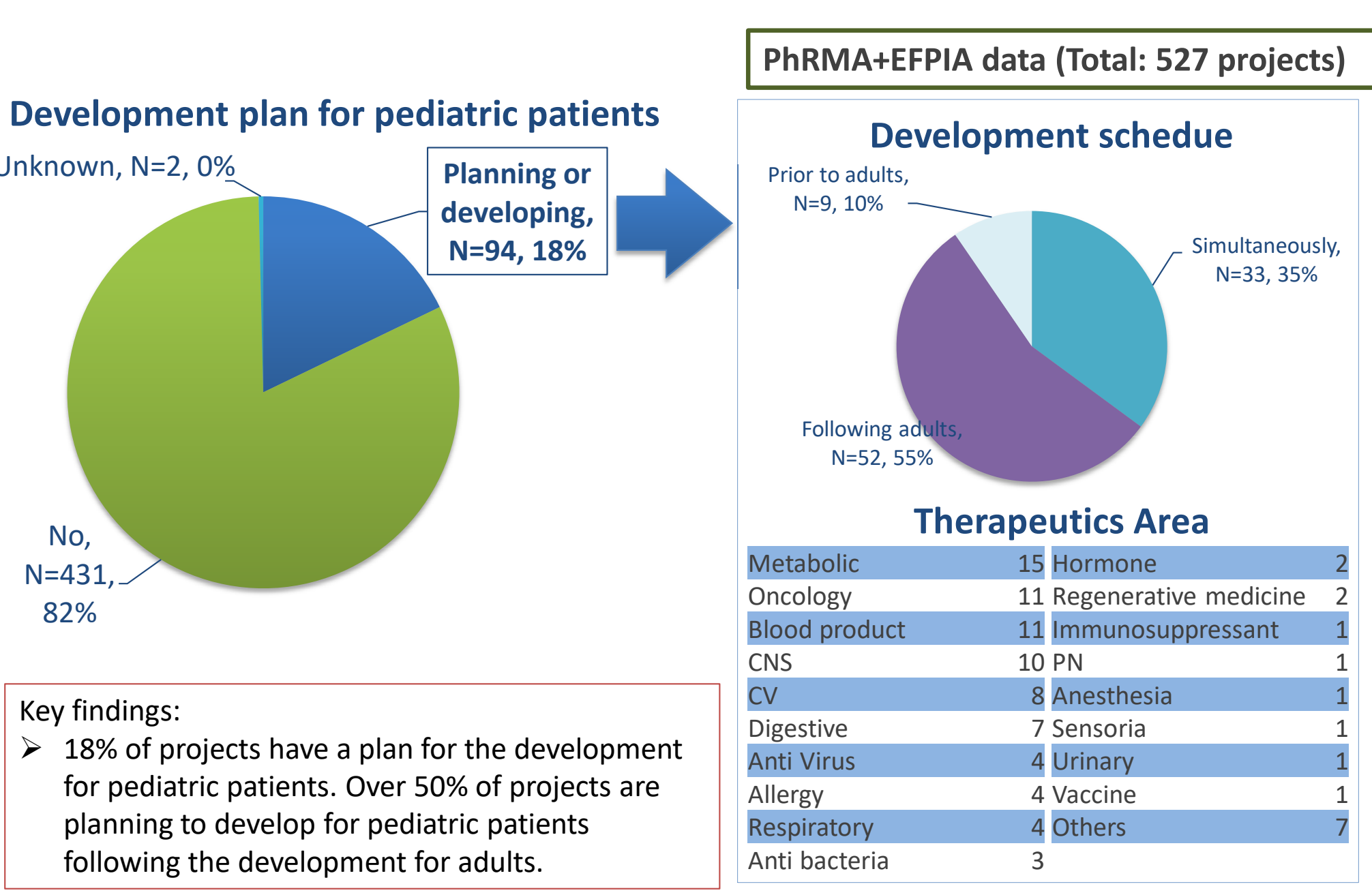
### Therapeutics Area



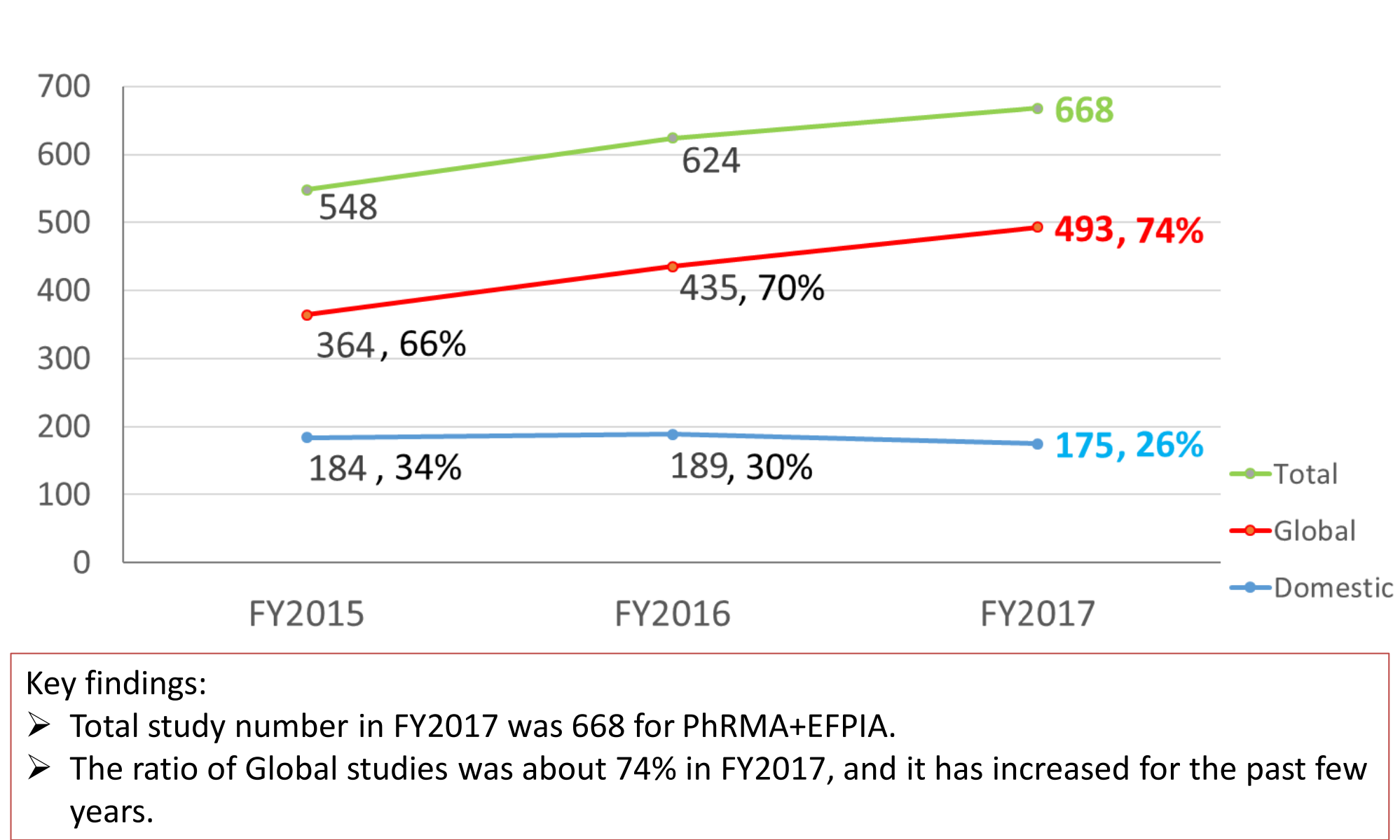
### SAKIGAKE/Breakthrough(BT)/PRIME



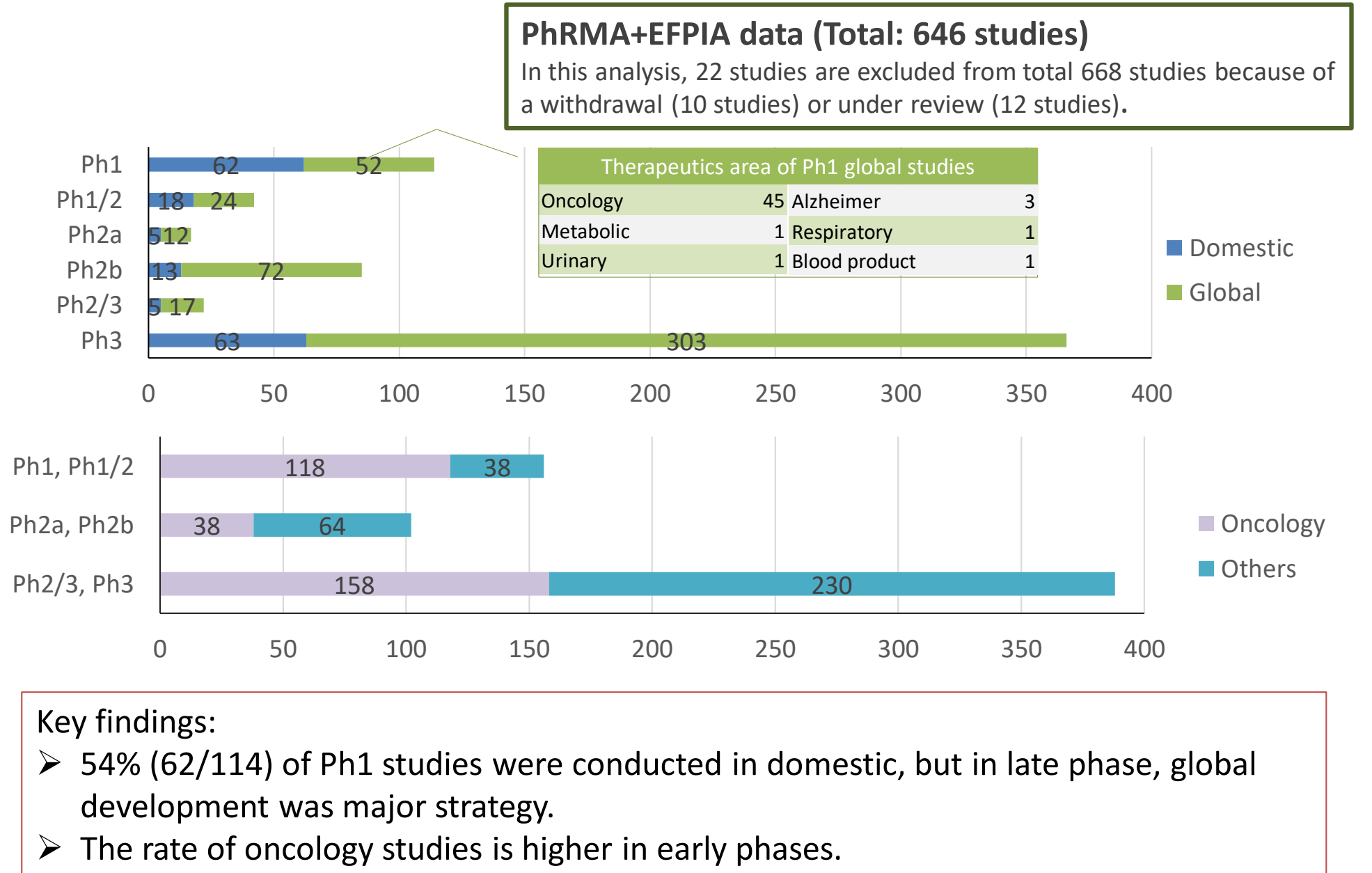
### Development for pediatric patients



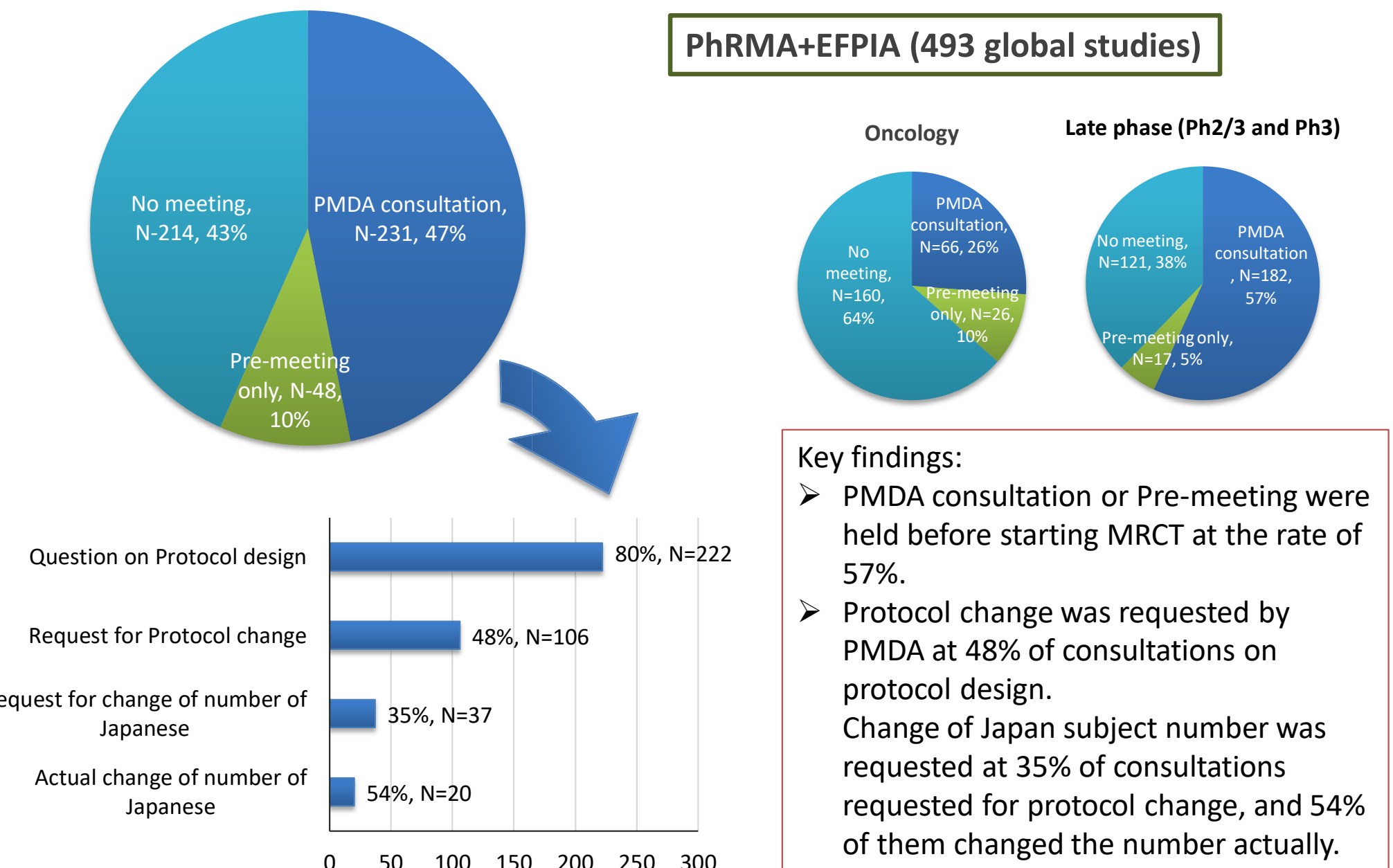
### Total Number of Clinical Studies (Global/ Domestic) Conducted by PhRMA + EFPIA



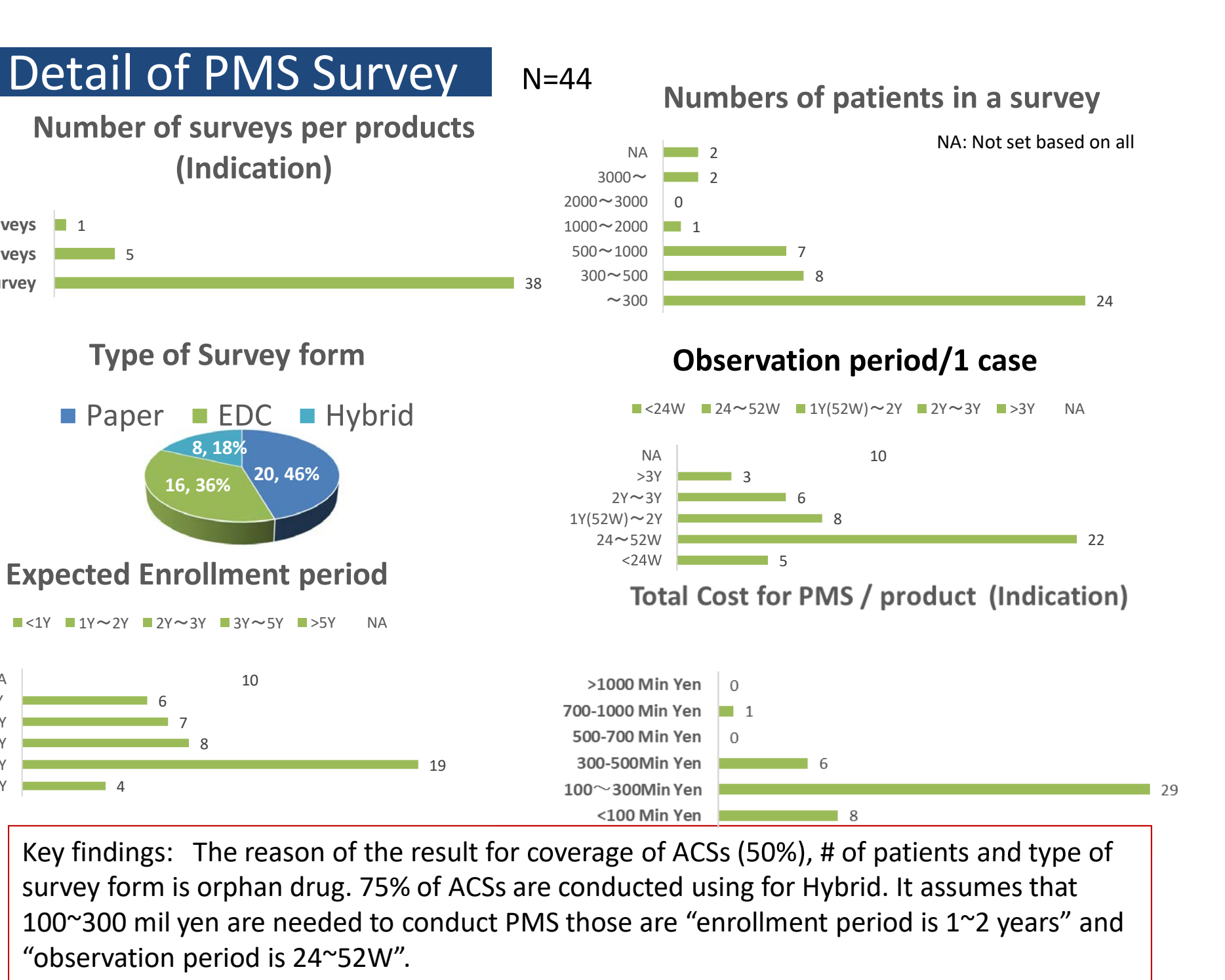
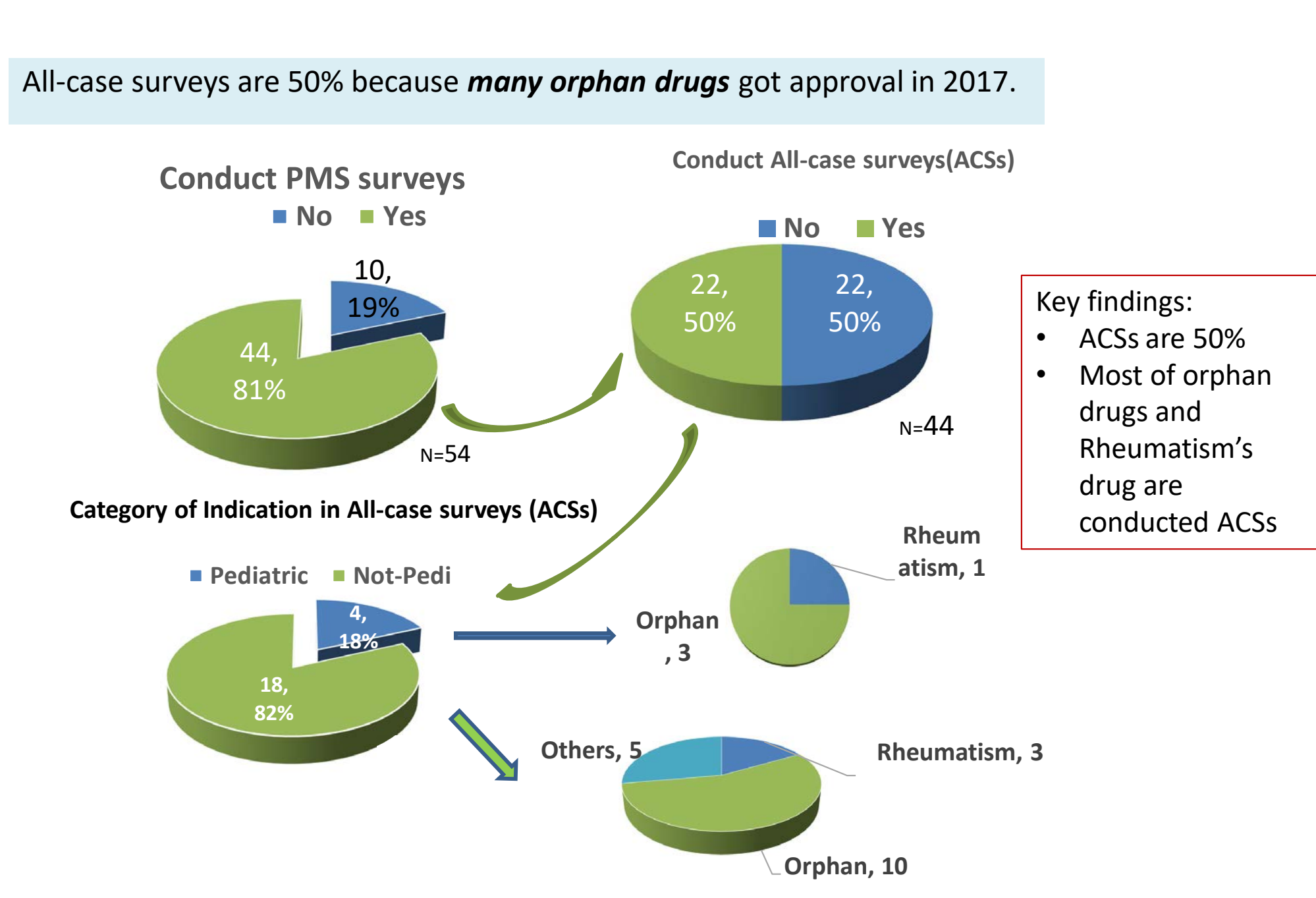
### Clinical Studies in FY2017 (Phase, Global/Domestic, Oncology/Non-Oncology)



### PMDA Consultation/ Pre-meeting before starting MRCT



## PMS Survey from approved projects in 2017



### Database survey in PMS

