

# Ability to “Check the Denominator”

- Issue: Identify relevant ongoing and completed trials, published and unpublished
- Approach: Search the ClinicalTrials.gov registry for all studies conducted about Intervention X for Condition Y in Population Z
- Limitations:
  - Ambiguous intervention names
  - “World Chaos” in Registration

**Weight-Loss Efficacy of Lorcaserin (Belviq) and Phentermine plus Extended-Release Topiramate (Qsymia) at 1 Year.\***

Drug, Study, and Treatment	Mean Percentage Change in Body Weight (Mean Efficacy Criterion)	Proportion of Patients with Weight Loss $\geq 5\%$ of Body Weight (Categorical Efficacy Criterion)
<b>Belviq†</b>		
Studies 1 and 2 combined		
10 mg BID	-5.8	47
Placebo	-2.5	23
<b>Study 3</b>		
10 mg BID	-4.5	38
Placebo	-1.5	16
<b>Qsymia‡</b>		
<b>Study 1</b>		
15 mg/92 mg	-10.9	67
Placebo	-1.6	17
<b>Study 2</b>		
7.5 mg/46 mg	-7.8	62
15 mg/92 mg	-9.8	70
Placebo	-1.2	21

## Unambiguous Identification of Obesity Trials

**TO THE EDITOR:** Colman et al. (Oct. 25 issue)<sup>1</sup> describe trial results underlying approval of two weight-management drugs by the Food and Drug Administration. However, their table included noninformative terms (e.g., “study 1”) without citing publications or ClinicalTrials.gov records. The materials that were referenced<sup>2,3</sup> used only acronyms (e.g., BLOOM) and internal identifiers (e.g., OB-301) — neither of which could be linked to the terms in the table. Using ClinicalTrials.gov (www.clinicaltrials.gov), we identified six studies of lorcaserin for obesity<sup>4</sup> and nine studies of phentermine and topiramate for obesity<sup>5</sup> (as of October 15, 2012). Only Colman et al. could confirm the likely matches (Table 1). This is an important example of why listing ClinicalTrials.gov identifiers (NCT numbers) would provide unambiguous access to trial-design information.

**Table 1. Different Identifiers for the Same Clinical Studies.\***

Drug, Identifier Used by Colman et al., and Identifier Used in References Cited by Colman et al.	Probable ClinicalTrials.gov Identifier	Publication (PubMed Identifier) Associated with Probable ClinicalTrials.gov Identifier
<b>Belviq</b>		
Studies 1 and 2 combined		
BLOOM	NCT00395135	Smith et al. Multicenter, placebo-controlled trial of lorcaserin for weight management. <i>N Engl J Med</i> 2010; 363:245-56 (20647200)
BLOSSOM	NCT00603902	Fidler et al. A one-year randomized trial of lorcaserin for weight loss in obese and overweight adults: the BLOSSOM trial. <i>J Clin Endocrinol Metab</i> 2011; 96:3067-77 (21795446)
Study 3		
BLOOM+DM	NCT00603291	O’Neil et al. Randomized placebo-controlled clinical trial of lorcaserin for weight loss in type 2 diabetes mellitus: the BLOOM-DM study. <i>Obesity (Silver Spring)</i> 2012;20:1426-36 (22421927)
<b>Qsymia</b>		
<b>Study 1</b>		
OB-302	NCT00554216	NA
<b>Study 2</b>		
OB-303	NCT00553787	Gadde et al. Effects of low-dose, controlled-release, phentermine plus topiramate combination on weight and associated comorbidities in overweight and obese adults (CONQUER): a randomized, placebo-controlled, phase 3 trial. <i>Lancet</i> 2011;377:1341-52 (21481449)

\* BLOOM denotes Behavioral Modification and Lorcaserin for Overweight and Obesity Management, BLOOM-DM Behavioral Modification and Lorcaserin for Obesity and Overweight Management in Diabetes Mellitus, BLOSSOM Behavioral Modification and Lorcaserin Second Study for Obesity Management, and NA not applicable.

## Editor's Note

“Zarin and Tse are correct. It is our policy to refer to clinical trials by their **registration number** or to reference a publication in which they can be unequivocally identified, and we should have done so for the ones they mentioned in their letter.”

71

## Does the Search Engine Enable You to Find the Trials You Want?

- Spelling correction and relaxation of search terms
- Use of synonymy
- Fielded search
- Use of hierarchy from MeSH
- Relevancy ranking

72

# Naming Drugs

- After Approval
  - Generic name (USAN, USP), links to chemical structure
- Before Approval
  - Chemical structure (name, drawing)
  - Company serial number
    - No public record or oversight
    - No guaranteed one-to-one correspondence

73

## Names/Identifiers Are Critical

- Search engines depend on known names, lists of synonyms, and hierarchies: e.g., Paxil
  - Aropax
  - Asimia
  - brl-29060
  - fg-7051
  - Ldmp
  - Paroxetine
  - Pexeva
  - Seroxat
- “Code” names, without “de-coders,” lead to “hidden” trials
- Non-specific names may also prevent the search engine from retrieving a useful list of trials
- Biologic, device, and other irregular intervention names challenge the system:
  - Vaccine: ALVAC-HIV MN120TMG (vCP205)
  - Device: IT LEISH (rK39); Device: galyfilcon AP 8.3 BC; Device: BD/33G

74

# Drug Serial #s = "Hidden" Trials

## ClinicalTrials.gov Gardasil® Search

**Gardasil® was approved on June 8, 2006**

**ClinicalTrials.gov** Accessed July 11, 2006  
A service of the U.S. National Institutes of Health

Home Search Listings

### Search Clinical Trials

Example: heart attack, Los Angeles

gardasil Search

gardasil was not found. Select an alternative below or change your query.

75

# PubMed Gardasil® Search

**One month after approval (and promotion)**

NCBI PubMed www.pubmed.gov  
A service of the National Library of Medicine and the National Institutes of Health

All Databases PubMed Nucleotide Protein Gene

Search PubMed for gardasil Go

Limits Preview/Index History Clipboard Details

The following term was not found: gardasil.  
See [Details](#). No items found.  
Did you mean: [gardais](#) (59 items)

76



# Study NCT00378560

**ClinicalTrials.gov** Linking patients to medical research  
A service of the U.S. National Institutes of Health Developed by the National Library of Medicine

[Home](#) | [Search](#) | [Listings](#) | [Resources](#) | [Help](#) | [What's New](#) | [About](#)

**Gardasil (V501) Study in Adult Women**

**This study is currently recruiting patients.**  
Verified by Merck September 2006

Sponsored by:	Merck
Information provided by:	Merck
ClinicalTrials.gov Identifier:	NCT00378560

**▶ Purpose**

A study to evaluate the efficacy, immunogenicity, safety and tolerability of Gardasil (V501) in adult women.

Condition	Intervention	Phase
Papillomavirus Infections	Vaccine: V501, Gardasil, human papillomavirus (types 6,11,16,18) recombinant vaccine / Duration of Treatment: 7 Months	Phase II
	Vaccine: Placebo (unspecified) / Duration of Treatment: 7 Months	

77

## The Problem of Undetected Duplicate Trial Records

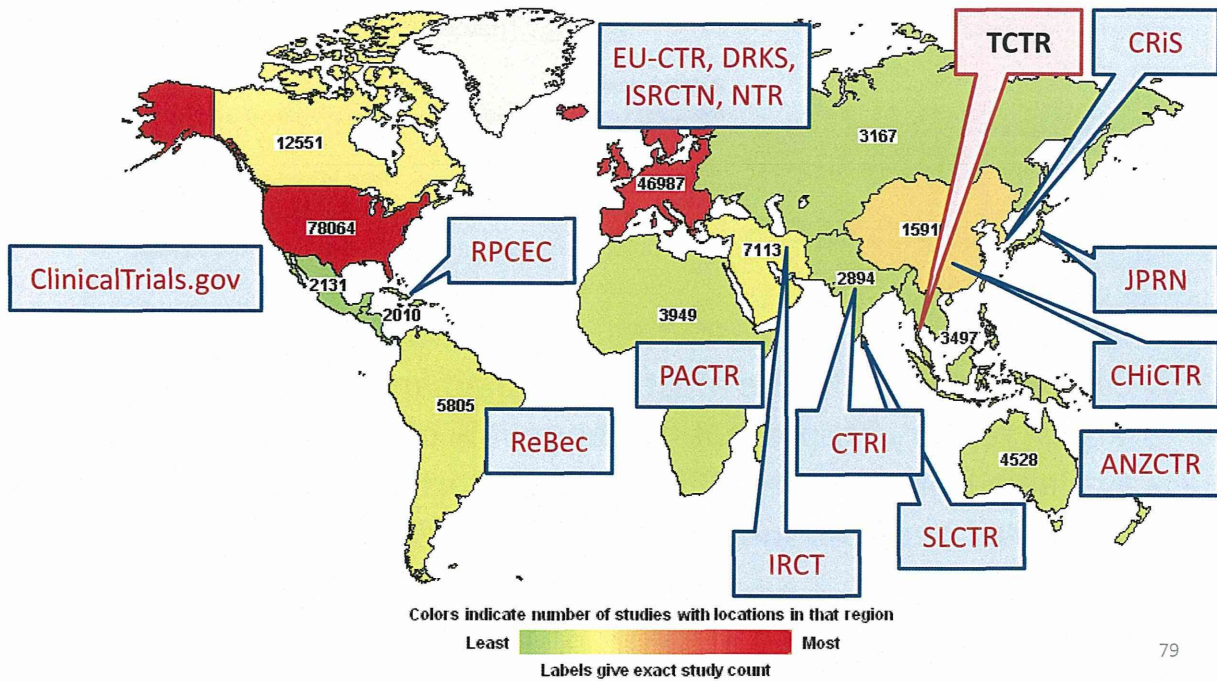
- Duplicates occur when multiple parties register the same trial
  - 47% of trials are multi-site
  - 10% have > 25 locations
- Distort search results, making it impossible to determine #s of trials, subjects, etc.
- Difficult to detect
  - False positives and false negatives

78

# International Landscape

## Map of All Studies in ClinicalTrials.gov

Click on the map below to show a more detailed map (when available) or search for studies (when map not available).



79

## ClinicalTrials.gov Records in Regions with WHO Primary Registries (as of 11/17/14)

WHO Primary Registry	Number of Records	
	WHO Primary Registry: Total # Studies	ClinicalTrials.gov: Total # Studies in Region
EU	24,296	49,650
Australia/New Zealand (ANZCTR)	14,536	4,699
ISRCTN ( <i>Many in UK</i> )	12,965	9,784 (UK)
Iran	6,972	663
China	5,198	5,520
Netherlands	4,660	5,750
India	5,190	2,542
Germany	2,958	12,250
Brazil	2,517	4,153
Korea	1,267	5,805
Africa	380	4,176
Thailand	261	1,609
Cuba	191	39
Sri Lanka	145	38
Japan (UMIN)	17,310 records	3,412

80





Example: liver cancer OR breast cancer NOT genetic

Search

Search tips

#### Welcome

- The Clinical Trials Search Portal provides access to a central database containing the trial registration data sets provided by the registries listed on the right. It also provides links to the full original records.
- To facilitate the unique identification of trials, the Search Portal bridges (groups together) multiple records about the same trial. [More information](#)
- Please note: This Search Portal is not a clinical trials registry. [How to register a trial](#)
- For information on how to use the Search Portal, please see the [User Guide](#).
- It is important to note that the Search Portal does not provide a list of all clinical trials registered in the WHO ICTRP Search Portal.
- Craving for more information? Please see the [FAQ](#).

#### Data Providers

Data sets from [data providers](#) are updated every Tuesday evening according to the following schedule:

Every week:

- Australian New Zealand Clinical Trials Registry, last data file imported on **16 June 2014**
- **ClinicalTrials.gov, last data file imported on 16 June 2014**
- EU Clinical Trials Register (EU-CTR), last data file imported on **16 June 2014**
- ISRCTN, last data file imported on **16 June 2014**

Every 4 weeks:

ClinicalTrials.gov “is the most established and clearly the largest registry,” representing about **86%** of records available from the WHO ICTRP Search Portal among trials registered between June 2008 and June 2009.

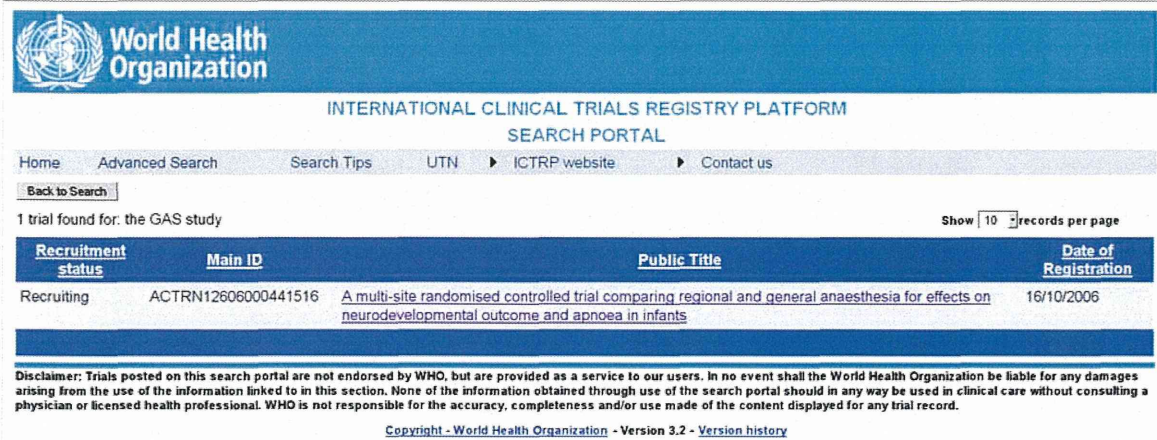
Source: Viergever RF, Ghersi D (2011) *PLoS ONE*.

81

## Case Study – the GAS Study

- Registered in (at least) three registries
  - ISRCTN, ClinicalTrials.gov, ANZCTR
- Three different PIs (US, UK, Aus); three different “sponsors.”
- ANZCTR and ClinicalTrials.gov records have same title; ISRCTN lists ANZCTR as secondary ID
- WHO portal lists two records, but does not recognize them as duplicates; does not have the ISRCTN record

## On WHO Portal Site: Basic Search for “The GAS Study”



World Health Organization  
INTERNATIONAL CLINICAL TRIALS REGISTRY PLATFORM  
SEARCH PORTAL

Home Advanced Search Search Tips UTN ICTRP website Contact us

Back to Search

1 trial found for: the GAS study Show 10 records per page

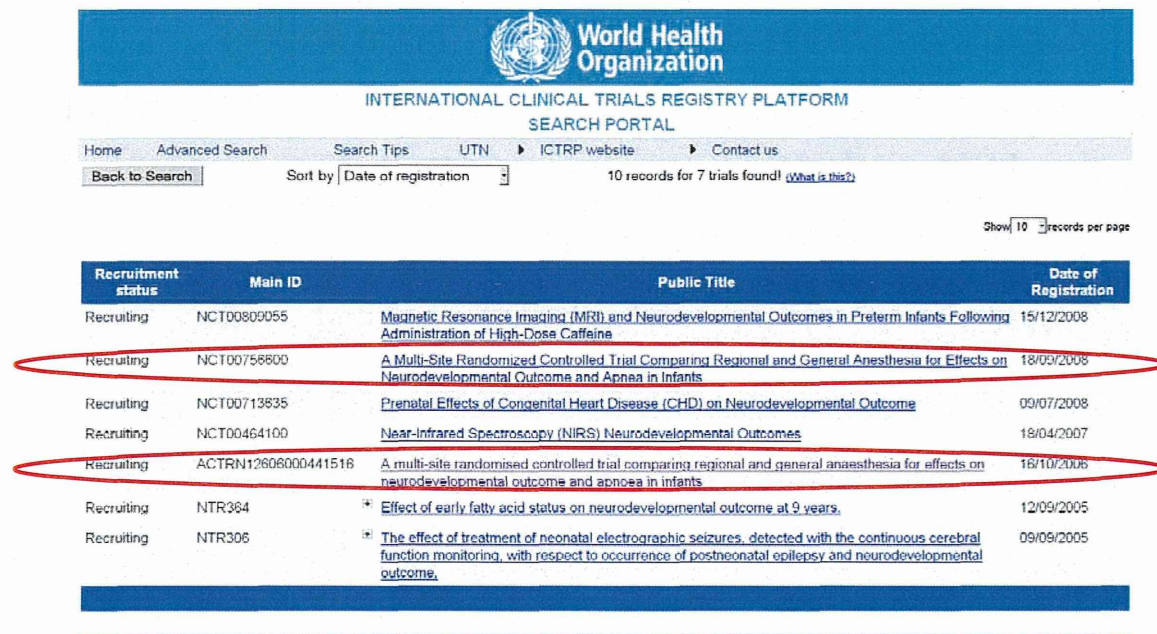
Recruitment status	Main ID	Public Title	Date of Registration
Recruiting	ACTRN12606000441516	<a href="#">A multi-site randomised controlled trial comparing regional and general anaesthesia for effects on neurodevelopmental outcome and apnoea in infants</a>	16/10/2006

Disclaimer: Trials posted on this search portal are not endorsed by WHO, but are provided as a service to our users. In no event shall the World Health Organization be liable for any damages arising from the use of the information linked to in this section. None of the information obtained through use of the search portal should in any way be used in clinical care without consulting a physician or licensed health professional. WHO is not responsible for the accuracy, completeness and/or use made of the content displayed for any trial record.

Copyright - World Health Organization - Version 3.2 - Version history

83

## On WHO Portal Site: Title Field Search for “Neurodevelopmental Outcome”



World Health Organization  
INTERNATIONAL CLINICAL TRIALS REGISTRY PLATFORM  
SEARCH PORTAL

Home Advanced Search Search Tips UTN ICTRP website Contact us

Back to Search Sort by Date of registration 10 records for 7 trials found! [What is this?](#)

Show 10 records per page

Recruitment status	Main ID	Public Title	Date of Registration
Recruiting	NCT00809055	<a href="#">Magnetic Resonance Imaging (MRI) and Neurodevelopmental Outcomes in Preterm Infants Following Administration of High-Dose Caffeine</a>	15/12/2008
Recruiting	NCT00756600	<a href="#">A Multi-Site Randomized Controlled Trial Comparing Regional and General Anesthesia for Effects on Neurodevelopmental Outcome and Apnea in Infants</a>	18/09/2008
Recruiting	NCT00713635	<a href="#">Prenatal Effects of Congenital Heart Disease (CHD) on Neurodevelopmental Outcome</a>	09/07/2008
Recruiting	NCT00464100	<a href="#">Near-Infrared Spectroscopy (NIRS) Neurodevelopmental Outcomes</a>	18/04/2007
Recruiting	ACTRN12606000441516	<a href="#">A multi-site randomised controlled trial comparing regional and general anaesthesia for effects on neurodevelopmental outcome and apnoea in infants</a>	16/10/2006
Recruiting	NTR364	* <a href="#">Effect of early fatty acid status on neurodevelopmental outcome at 9 years.</a>	12/09/2005
Recruiting	NTR306	* <a href="#">The effect of treatment of neonatal electrographic seizures, detected with the continuous cerebral function monitoring, with respect to occurrence of postneonatal epilepsy and neurodevelopmental outcome.</a>	09/09/2005

84



Mandatory for Registrant to Post (in effect)	Non-voluntary Post by EC or Government (in effect)	Mandatory for Registrant to Post (pending)	Non-voluntary Post by EC or Government (pending)	Legislation / Regulations (ongoing activity)	Voluntary Registry (in effect)
Argentina <sup>ReNIS</sup> Austria NIS <sup>1</sup> Brazil <sup>2</sup> Euro. Union <sup>EU PAS</sup> India Israel <sup>3</sup> Malaysia New Zealand <sup>4</sup> Philippines <sup>5</sup> South Africa Taiwan United States	Argentina <sup>EFC</sup> Chile Colombia <sup>6</sup> Czech Republic Euro. Union <sup>EU CTR</sup> France Germany <sup>PharmNet.Bund</sup> Korea <sup>MFDS</sup> Netherlands <sup>CCMO</sup> Norway Peru Russia Serbia Singapore Slovakia <sup>7</sup> Venezuela	Kenya Mexico Switzerland <sup>8</sup>	Croatia Italy <sup>Integrated Platform</sup> Spain <sup>9</sup> Zimbabwe	Canada China Poland	Africa Australia/New Zland China <sup>CFDA</sup> China <sup>ChiCTR</sup> Cuba Euro. Union <sup>ENCePP</sup> Germany <sup>DRKS</sup> Hong Kong Iran Japan Korea <sup>CRIS</sup> Netherlands <sup>NTR</sup> Poland <sup>INFARMA</sup> Sri Lanka Taiwan PMS <sup>10</sup> Tanzania <sup>11</sup> Thailand United Kingdom <sup>12</sup>
<sup>1</sup> Non-interventional studies <sup>2</sup> Register Phase 1 - 4 trials in ReBEC <sup>3</sup> Register in ClinicalTrials.gov <sup>4</sup> Required for ethics approval (WHO/CTgov)		<sup>5</sup> Register Phase 1 - 4 trials in PHRR <sup>6</sup> Posts PDF lists of trials <sup>7</sup> Replaced database with PDF file <sup>8</sup> In any WHO/CMJE registry plus national database		<sup>9</sup> NCA loads XML Sponsor Data Summary <sup>10</sup> Post-marketing studies <sup>11</sup> In public user test phase (since Jul 2011) <sup>12</sup> NRES, ISRCTN, and PROSPERO	

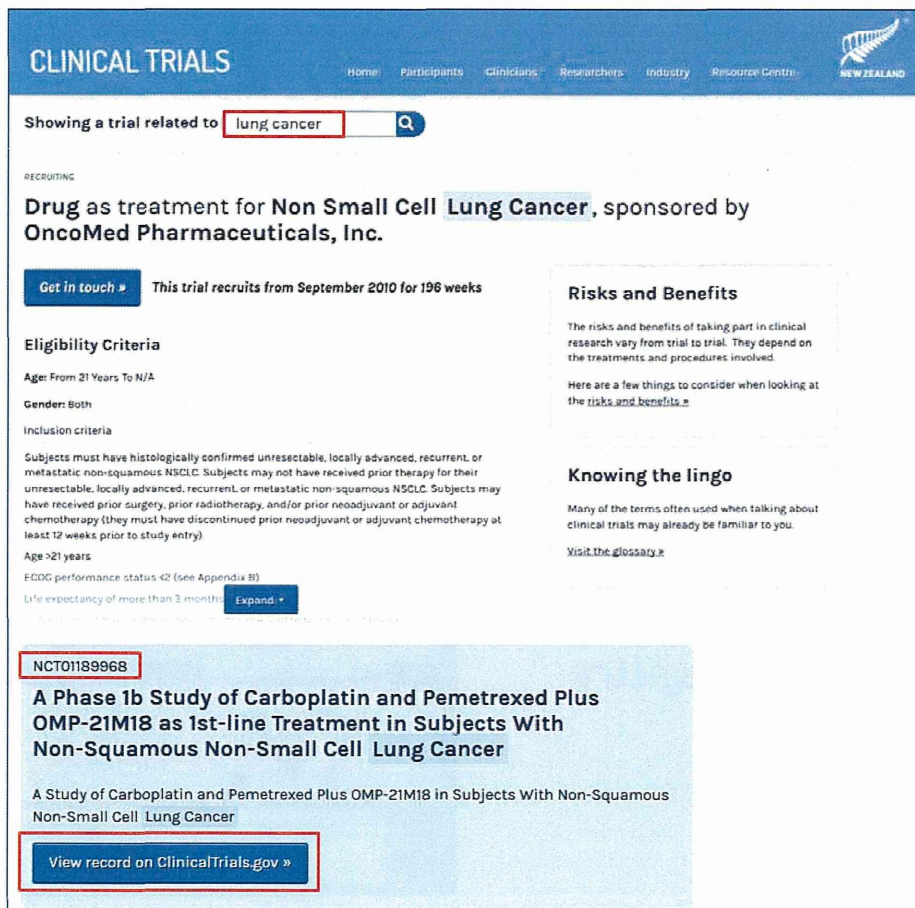
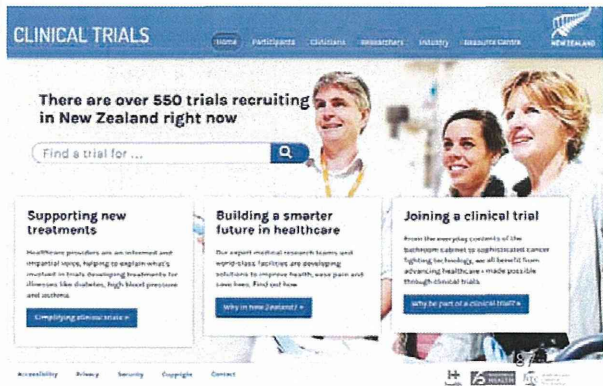
• This table is not intended to be exhaustive  
 • It is not guaranteed to be accurate  
 • Red indicates changes since April 2012  
 • Last updated April 2013

## Policies that Help Avoid World Chaos

- Ministry of Health, Israel:** "...controlled prospective clinical trials must be registered at the NIH website, <http://www.clinicaltrials.gov>."
- Health Canada:** "...registration of clinical trials ... within 21 days of the trial's onset ... in ClinicalTrials.gov or ISRCTN [UK registry]"

# Country-Specific Trial Portal

- New Zealand Clinical Trials Portal (<http://clinicaltrials.health.nz/>)
- Leverages two existing trial registries
  - ClinicalTrials.gov (at least one site in New Zealand)
  - Australian New Zealand Clinical Trials Registry (ANZCTR)
  - **Not a trial registry**





**ClinicalTrials.gov**  
A service of the U.S. National Institutes of Health

Example: "Heart attack" AND "Los Angeles"  
Search for studies:

Advanced Search | Help | Studies by Topic | Glossary

Find Studies | About Clinical Studies | Submit Studies | Resources | About This Site

Home > Find Studies > Study Record Detail Text Size ▾

**A Study of Carboplatin and Pemetrexed Plus OMP-21M18 in Subjects With Non-Squamous Non-Small Cell Lung Cancer**

This study is currently recruiting participants.  
Verified October 2010 by OncoMed Pharmaceuticals, Inc.

**ClinicalTrials.gov Identifier:**  
**NCT01189968**

**Sponsor:**  
OncoMed Pharmaceuticals, Inc.

**Collaborator:**  
Novotech (Australia) Pty Ltd

**Information provided by (Responsible Party):**  
OncoMed Pharmaceuticals, Inc.

First received: August 25, 2010  
Last updated: December 14, 2011  
Last verified: October 2010  
History of Changes

**Purpose**

The purpose of this study is to test the safety and determine the optimal dose of a new drug, OMP-21M10, when given in combination with carboplatin and pemetrexed, a standard drug treatment regimen for non-squamous non-small cell lung cancer (NSCLC). Participants must not have received prior chemotherapy for their NSCLC. OMP-21M18 is a humanized monoclonal antibody (a protein made in the laboratory) developed to target cancer stem cells. The way the body handles OMP-21M18 will also be investigated.

Up to 40 participants, 21 years or older, at up to 7 centres in Australia, New Zealand, and Spain will receive intravenous infusions of carboplatin and pemetrexed every 21 days, for up to 6 cycles. OMP-21M18 will be administered by intravenous infusion once every 21 days (on the same day as the scheduled carboplatin and pemetrexed administration) until disease progression. Participants who complete the 6 cycles of carboplatin, pemetrexed, and OMP-21M18 and who have stable disease or a response may continue to receive OMP-21M18 once every 21 days as maintenance therapy until there is evidence of disease progression. Disease status will be assessed every 8 weeks.

Condition	Intervention	Phase
Non Small Cell Lung Cancer	Drug: OMP-21M18	Phase 1

89

## Country-Specific Trial Portal

- Clinical Trials Turkey (<http://www.clinicaltrials-tr.org/>)
- Leverages ClinicalTrials.gov
  - Registered trials with at least one site in Turkey
  - Structured data elements translated to Turkish
  - Trial information displayed in Turkish (where translated) and English
  - **Not a trial registry**

**Klinik Çalışmalar Türkiye**  
Clinical Trials Turkey

Klinik Çalışmalar Türkiye websitesi, ClinicalTrials.gov veritabanına bağlı olarak Türkiye'de gerçekleştirilen klinik çalışmaların listesini yayınlamaktadır.

Klinik Çalışmalar Türkiye

Bu site ClinicalTrials.gov veritabanına bağlı olarak Türkiye'de gerçekleştirilen klinik çalışmaların listesini yayınlamaktadır. A.B.D.'de bulunan klinik çalışmaların Türkiye'de gerçekleştirilip gerçekleştirilmediği hakkında bilgi için lütfen bizimle iletişime geçiniz.

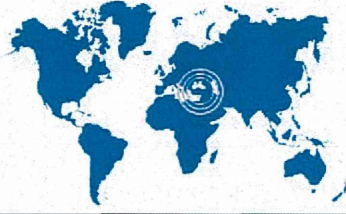
Klinik Çalışmalar Türkiye

Yeni Kayıtların Listesi

Yeni Kayıtların Listesi

Yeni Kayıtların Listesi

Yeni Kayıtların Listesi



## Clinical Trials Turkey

This site has been organized by Clinical Research Association of Turkey covers all the studies that have a participating Turkish center registered to the ClinicalTrials.gov according to the regulations of U.S. National Institute of Health.

### Search For Studies

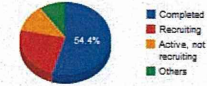
Ex: Breast cancer AND Ankara

Search In Clinicaltrials

Search

[Advanced Search](#) | [See Studies by Topic](#) | [See Studies by Country](#)

### Study Statics



### For Researchers

- › How to Find Studies?
- › Study Topics
- › Learn About Clinical Studies

### Arama İpuçları

- › How to Find Studies?
- › How to Read Studies
- › How to Read Study Results

### Resource

[ClinicalTrials.gov](#)



Clinical Research Association

[Main Page](#) | [Terms and Conditions](#)

Information taken from this site can be used publicly by providing reference. Site can be used as a resource by citing as "Taken from Clinical Trials Turkey web site" or "Taken from www.clinicaltrials-tr.org". This site is developed according to the regulations of U.S. National Institute of Health.

## Gelişmiş Arama

Aşağıdaki formda yer alan bazı ya da tüm alanları doldurarak tarama yapabilirsiniz.

Tarama Terimi :  Yardım

Gönüllü Katılımı :  Tüm Konular ▾

Çalışma Sonuçları :  Tüm Konular ▾

Çalışma Türleri :  Tüm Konular ▾

### Çalışma Detayları :

Konu :

Girişimler :

Başlık :

Sonlanım Noktası :

Destekleyiciliş Ortakları :

Ana Destekleyici :

Çalışma ID :

### Ülkeler :

Ülke 1:  Tüm Ülkeler ▾



Tarama Kriterleri: Breast cancer AND Ankara, Açık Çalışmalar  
Bulunan Toplam Sonuç : 6

Sonuçlar		
Sıra	Durum	Çalışma
1	Gönüllü Alımı Devam Ediyor	<b>A Non-Interventional Study of the Occurrence Rate of Colon, Breast and Gastric Cancer and Malignant Melanoma in Turkey and Diagnosis and Treatment Characteristics</b> Konu : Breast Cancer, Colorectal Cancer, Gastric Cancer, Malignant Melanoma
2	Gönüllü Alımı Devam Ediyor	<b>A Safety and Tolerability Study of Assisted- and Self-Administered Subcutaneous Herceptin (Trastuzumab) as Adjuvant Therapy in Patients With Early HER2-Positive Breast Cancer (SafeHer)</b> Konu : Breast Cancer Girişim : Drug: trastuzumab [Herceptin] ; Drug: trastuzumab [Herceptin]
3	Gönüllü Alımı Devam Ediyor	<b>A Study of Pertuzumab in Combination With Trastuzumab Plus an Aromatase Inhibitor in Patients With Hormone Receptor-Positive, Metastatic HER2-positive Breast Cancer</b> Konu : Breast Cancer Girişim : Drug: Aromatase Inhibitor ; Drug: Induction Chemotherapy ; Drug: pertuzumab ; Drug: trastuzumab
4	Gönüllü Alımı Devam Ediyor	<b>A Study of Pertuzumab in Combination With Herceptin (Trastuzumab) and A Taxane in First-Line Treatment in Patients With HER2-Positive Advanced Breast Cancer (PERUSE)</b> Konu : Breast Cancer Girişim : Drug: pertuzumab ; Drug: taxane ; Drug: trastuzumab [Herceptin]
5	Gönüllü Alımı Devam Ediyor	<b>A Study of Patient Satisfaction and Safety With Subcutaneously Administered Herceptin (Trastuzumab) in Patients With HER2-Positive Early Breast Cancer</b> Konu : Breast Cancer Girişim : Drug: carboplatin ; Drug: chemotherapy ; Drug: docetaxel ; Drug: paclitaxel ; Drug: trastuzumab [Herceptin]
6	Henüz Gönüllü Alımı Başlamadı	<b>Single Versus Double Drains After Mastectomy</b> Konu : Breast Cancer Modified Radical Mastectomy Girişim : Procedure: Insertion of a single drain ; Procedure: Insertion of double drains ; Procedure: Ultrasonography after removal of the drains

## A Non-Interventional Study of the Occurrence Rate of Colon, Breast and Gastric Cancer and Malignant Melanoma in Turkey and Diagnosis and Treatment Characteristics

Türkçe Başlık Öner

**Gönüllü Alımı Devam Ediyor**

**Destekleyen**  
Hoffmann-La Roche

**Bilgiyi Sağlayan:**  
Hoffmann-La Roche

**ID:** NCT01775514

**Giriş Tarihi:** Ocak 18, 2013

**Güncellenme Tarihi:** Ağustos 19, 2014

**Veritabanı Güncellenme Tarihi:** 19 Eylül 2014

(Güncellemeler ClinicalTrials.gov adresinden yapılmaktadır)

Metin Olarak Görüntüle

Tablo Olarak Görüntüle

➤ Amaç :

This non-interventional study will assess the occurrence rate of colon, breast and gastric cancer and of malignant melanoma in Turkey and the diagnostic methods and treatments used. Data will be collected over 12 months.

Konu	Girişim	Faz
Breast Cancer, Colorectal Cancer, Gastric Cancer, Malignant Melanoma	Yok	N/A

**Çalışma Türü :** Observational

**Çalışma Tasarımı :** Observational Model: Cohort  
Time Perspective: Prospective

**Çalışma Başlığı :** OCCURRENCE RATE OF COLON CANCER, BREAST CANCER, GASTRIC CANCER AND MALIGNANT MELANOMA IN TURKEY & DIAGNOSIS AND TREATMENT CHARACTERISTICS

**Hoffmann-La Roche tarafından sağlanan ek bilgiler:**

**Birincil Sonuç Ölçümü :** • Occurrence rate of colon cancer, defined as new cases recorded in the relevant region in 1 year / population of the region [ Time Frame: 12 months ] [ Designated as safety issue: No ]

# Japan and ClinicalTrials.gov

As of January 25, 2016

- 3,950 Studies in ClinicalTrials.gov
  - Submitted by 456 data providers
- 319 PRS Organizations from Japan
  - (Does not include most multinationals)

95

## Some Organizations from Japan

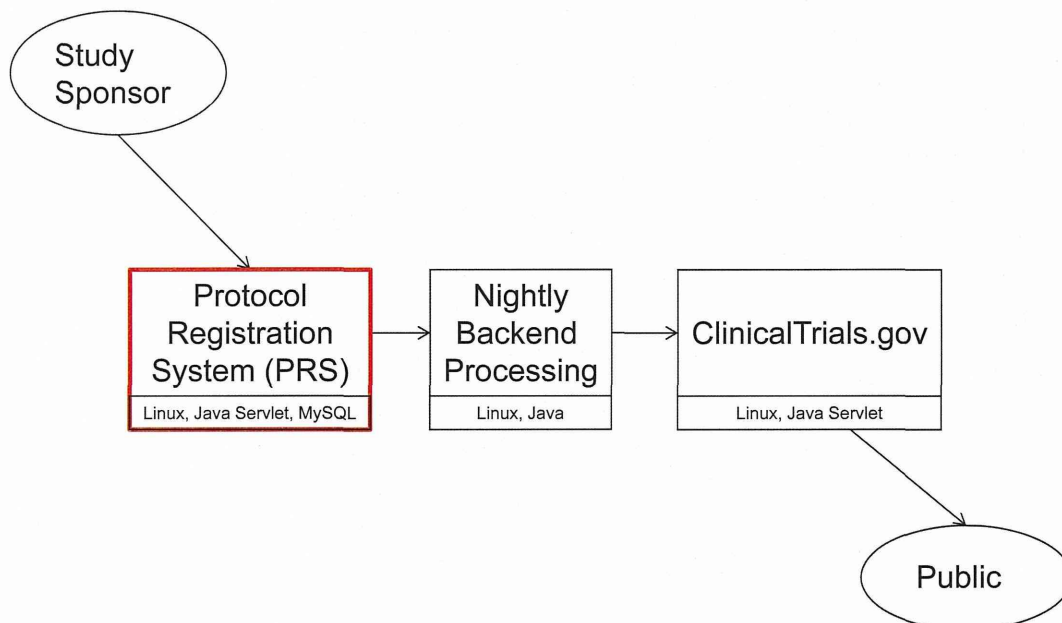
- Translational Research Informatics Center, Kobe, Hyogo, Japan
- Japan Clinical Oncology Group
- Kyorin University
- Kyoto University, Graduate School of Medicine
- Kumamoto University
- Hiroshima University
- Tokyo University
- Osaka University
- Chiba University
- Kansai Hepatobiliary Oncology Group

96

# PRS Implementation Details

97

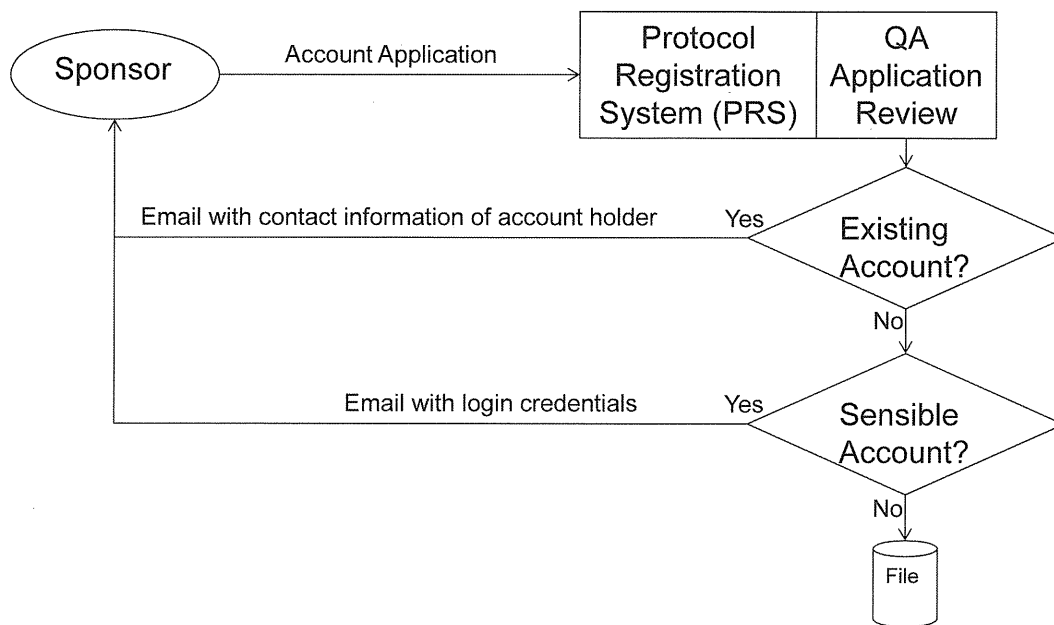
## Highest Level Overview



98

# Protocol Registration System

## Step 1 – Getting an account

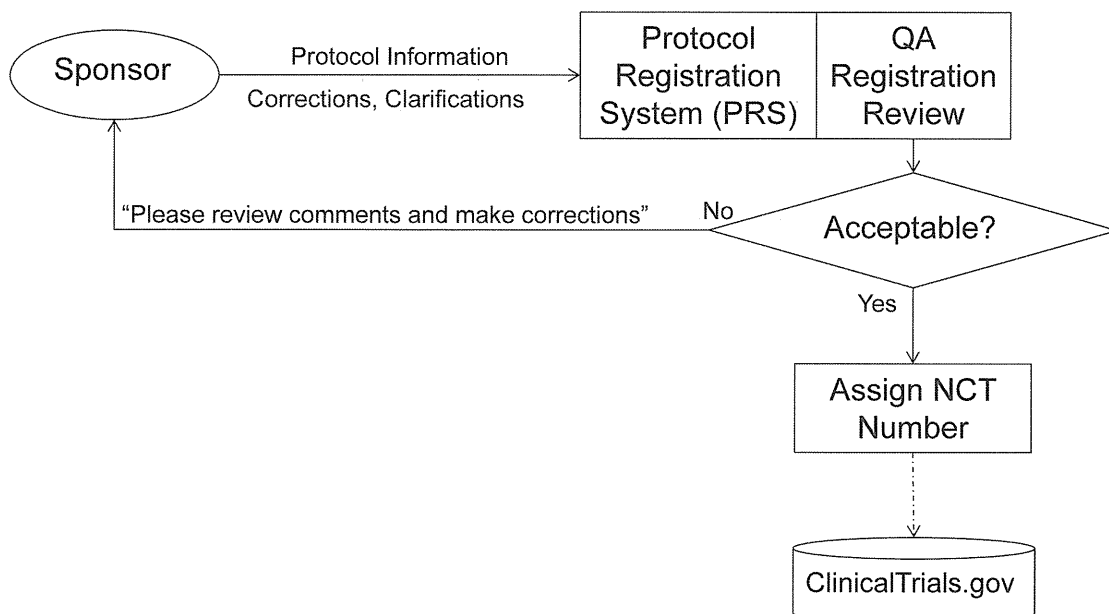


QA = Quality Assurance staff

99

# Protocol Registration System

## Step 2 – Providing Study Registration



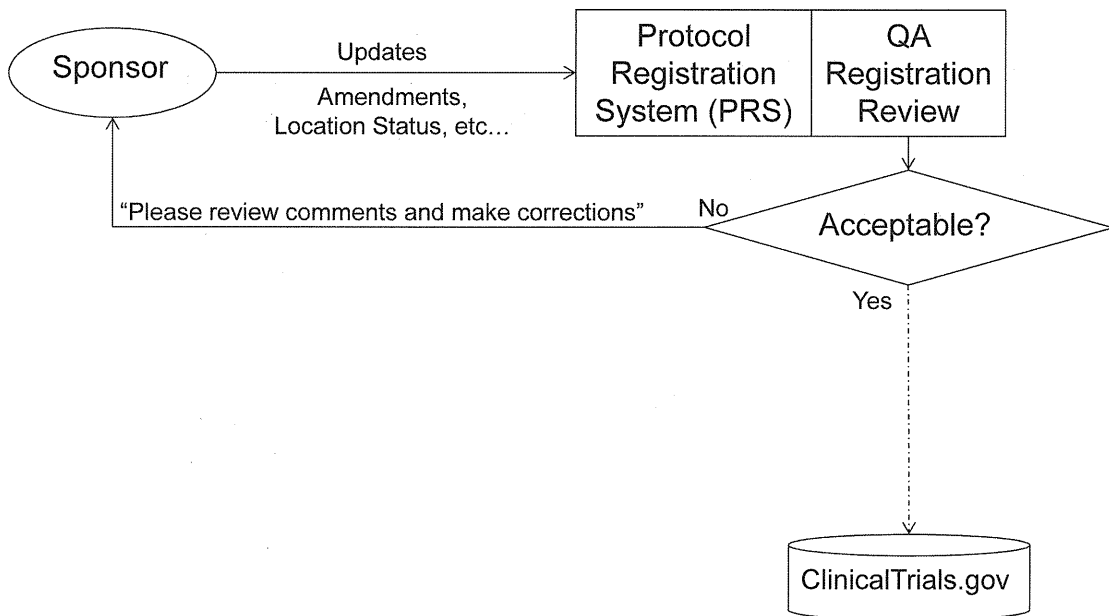
QA = Quality Assurance staff

100



# Protocol Registration System

## Step 3 – Providing Periodic Updates

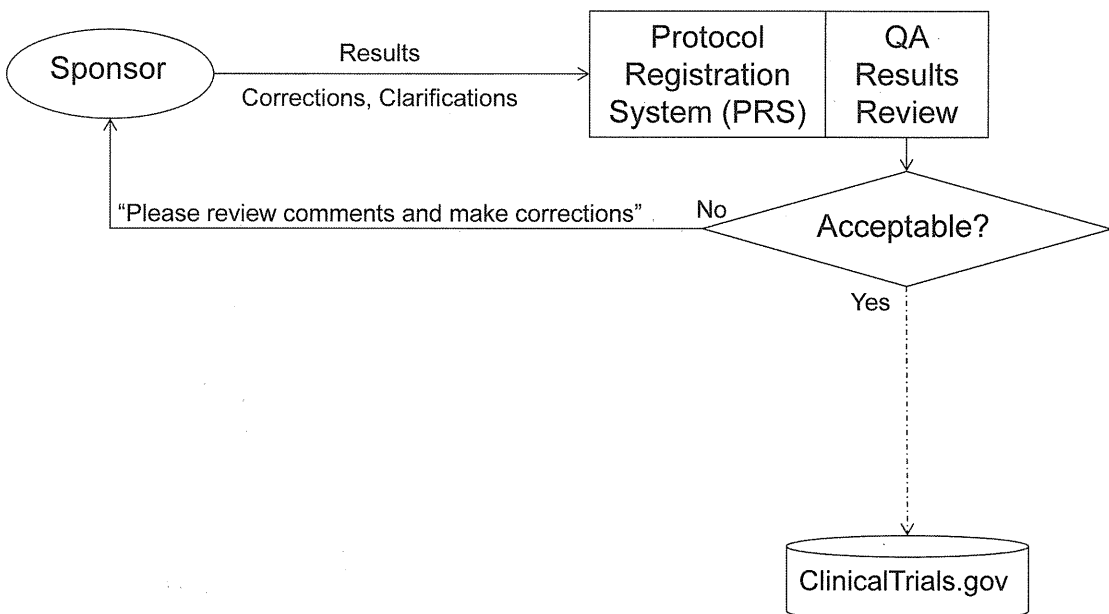


QA = Quality Assurance staff

101

# Protocol Registration System

## Step 4 – Providing Results

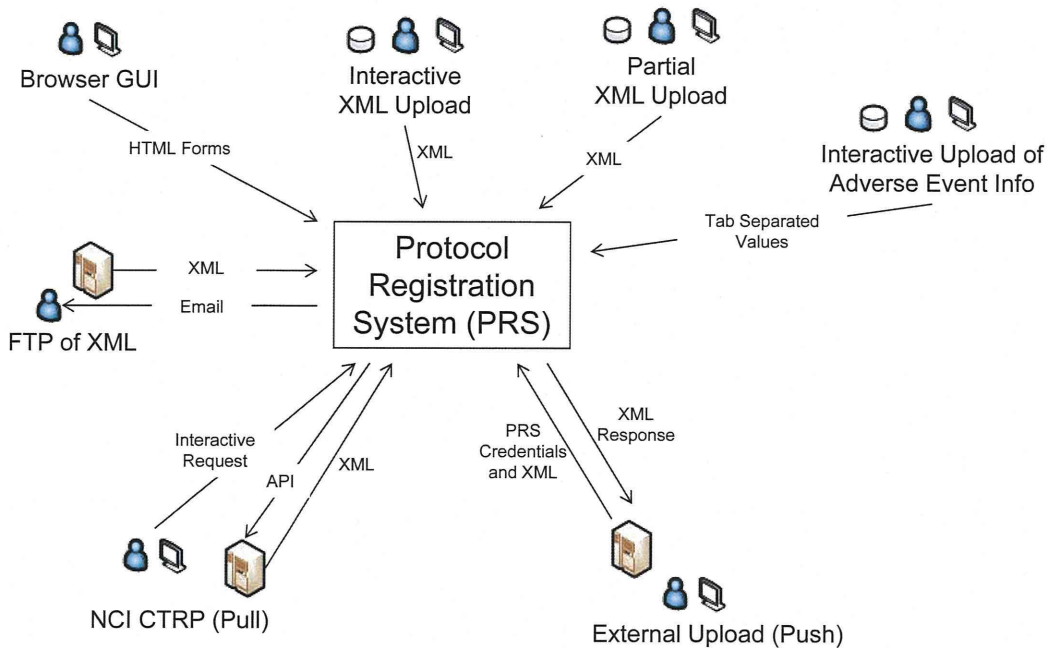


QA = Quality Assurance staff

102

# Protocol Registration System

## Methods of Interaction



103

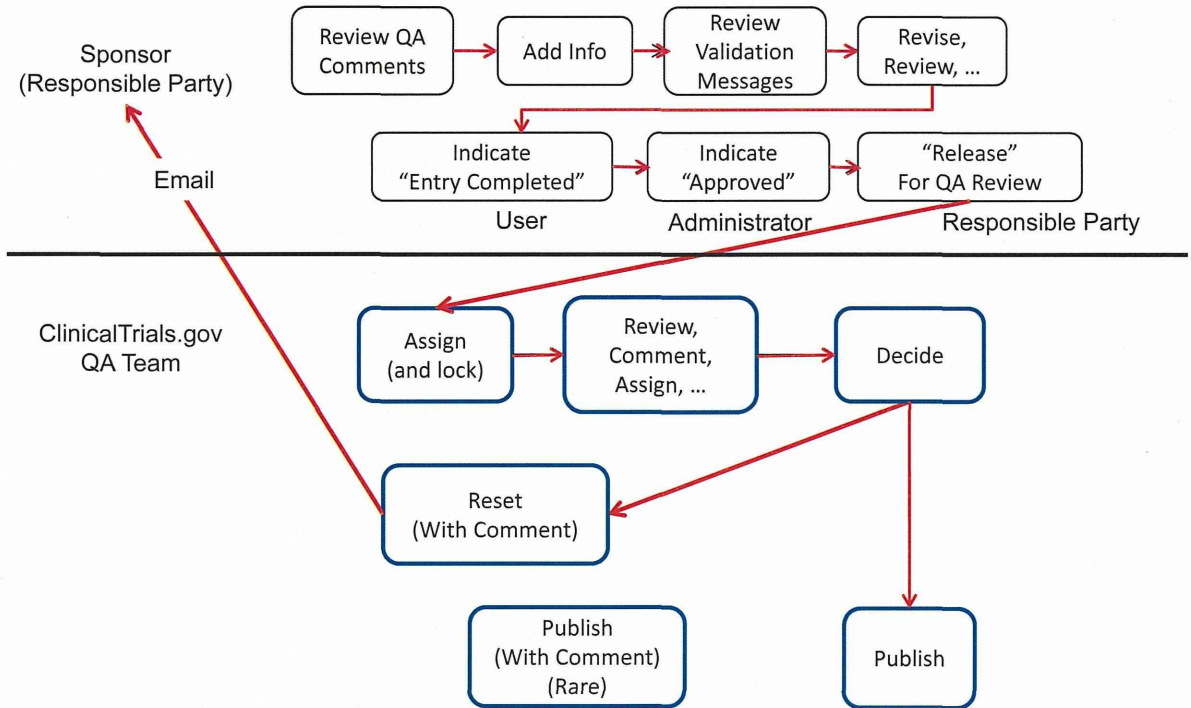
## PRS Basics

- Structured data elements:
  - Some required\* and others optional
  - Pull-down menus and text
- Business rules
  - **STOP ERROR** Study cannot be released; must be addressed
  - **WARNING** Should be addressed
  - **NOTE** Helpful hints; may or may not apply
- We must accommodate all study designs
  - No exceptions to business rules
  - If one study in 1000 has  $X < Y$ , then we allow  $X < Y$ .
- PRS supports a basic work flow

104

# Protocol Registration System

## Internal Work Flow



105

## Structured Information

What we want:

**Type 1 diabetes**

What we get:

**Peoples who had diabetes as teenagers**

We have studies from around the world, some users with weak English skills, and data feeds from other systems.

106

# Structured Information

What we want in Collaborators field:

**Merck**  
**Bill & Melinda Gates Foundation**

What we get:

**Merk Incorporated,**  
**a grant from the Gates Foundation,**  
**New Delhi Office**

We don't know ground truth of the study.  
We don't have copies of study documents.  
Our comments might be ignored.  
Our email pleas might be ignored.

107

# Structured Information

**Collaborators:**  
(One per line)

Include all additional funding sources.

**Enter only the organization names, one per line (no numbers, dashes, bullets, etc.).**

Merk Incorporated  
a grant from gates foundation

**⚠ WARNING: "Merk Incorporated" is not a recognized organization name.**  
[Select from a list](#) of possible matches

**⚠ WARNING: "a grant from gates foundation" is not a recognized organization name.**  
[Select from a list](#) of possible matches

We try, but lacking a bigger stick,  
at some point we have to take what we are given.  
(And then try to make the best of it!)

108