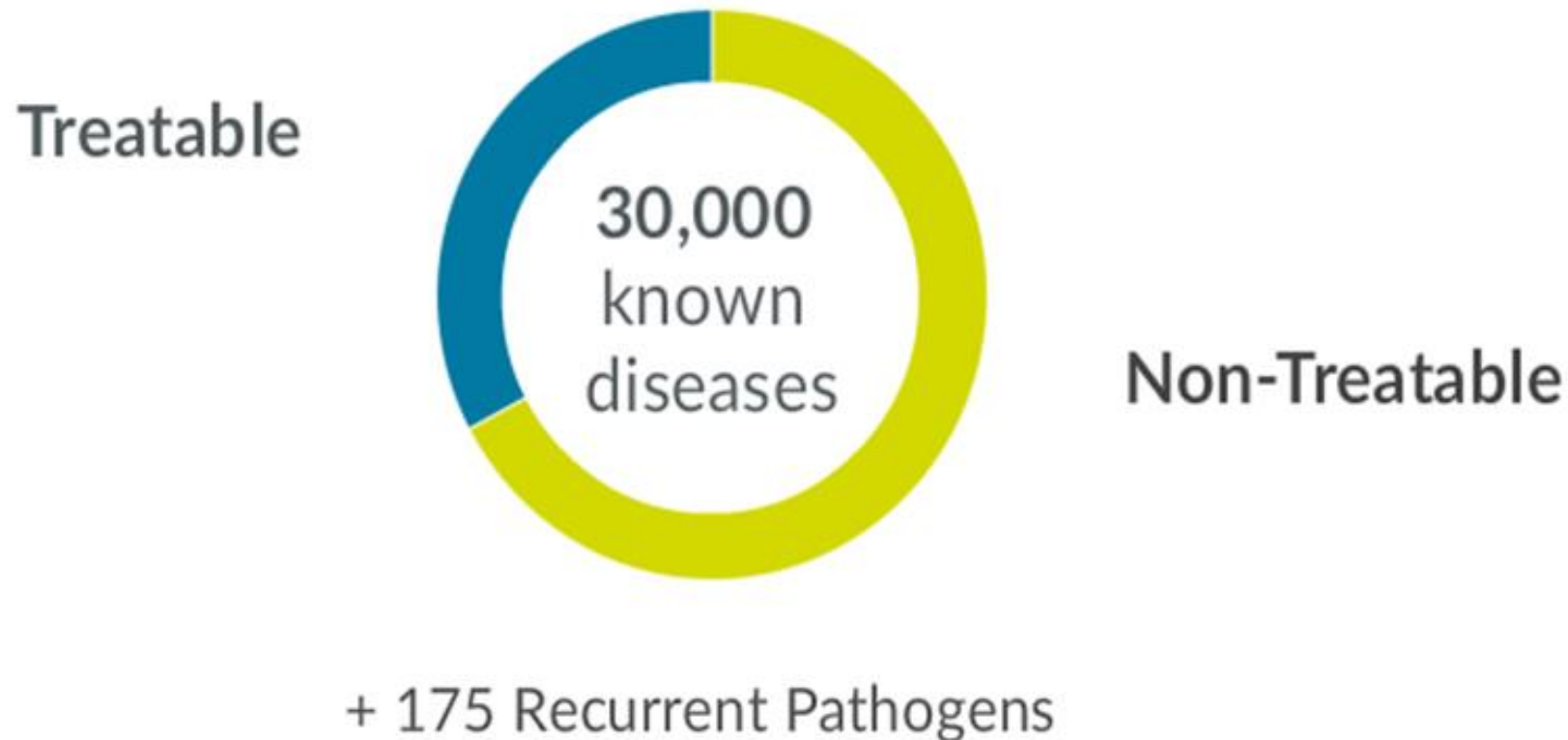


Why Clinical Trials are such a discussed topic?

Drug development and Clinical Research



Drug development and Clinical Research

- Medical progress is based on research which ultimately must rest in part on experimentation involving human subjects. (*Declaration of Helsinki 1964, updated periodically*)
- There is no progress in Medicine without clinical research.

Access of patients (free of charges) to:

- ☐ innovative therapies and molecules
- ☐ state of the art investigative procedures and equipment
- ☐ new therapeutic protocols

Controlled environment

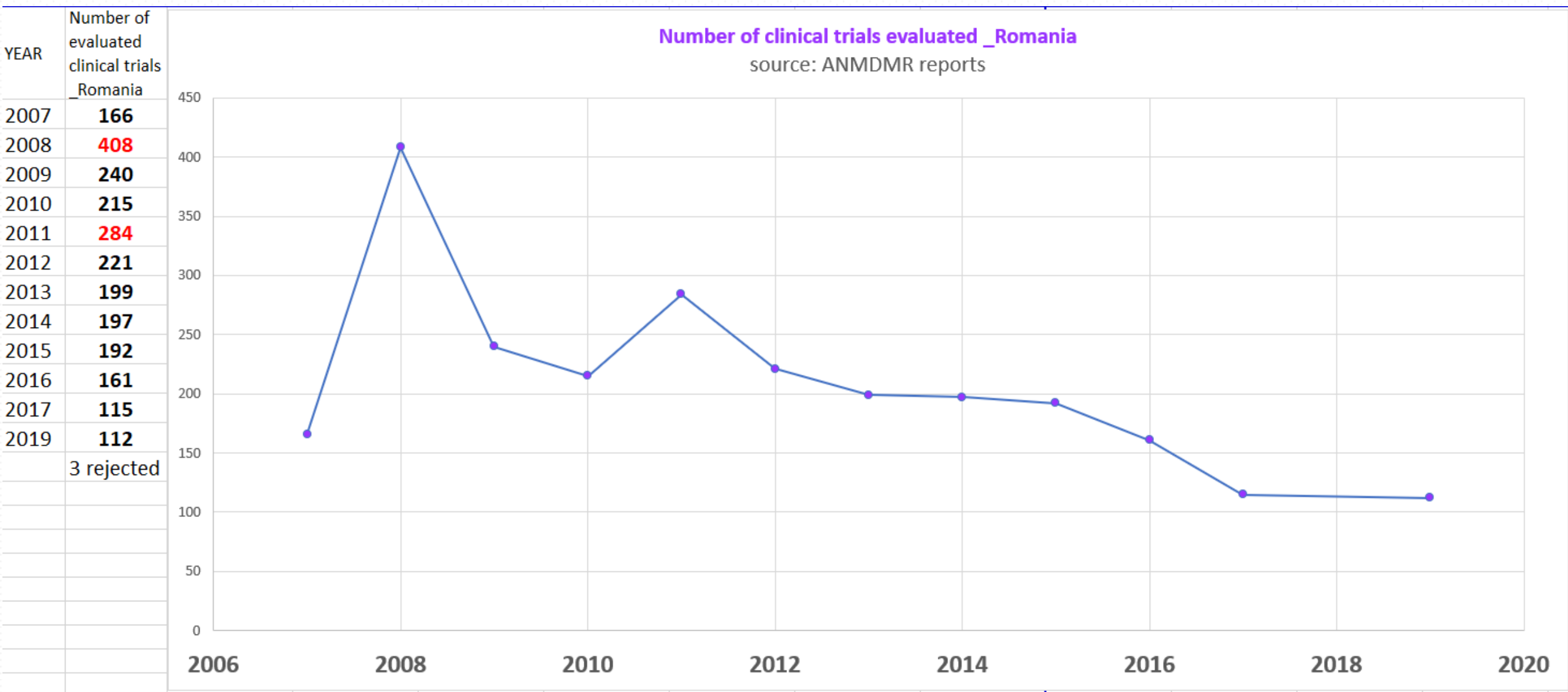
- **One of the most regulated domain: EMA** (Directives, Regulation, guidelines), **FDA** (Code of Federal Regulations part 21), **local legislation** corresponding with the above mentioned
- **Thorough and periodical medical examination**
- **Control at distance: central laboratory, Central reading (x-ray, ECG), central monitoring, central data management**

The extent of the Clinical Trial phenomenon

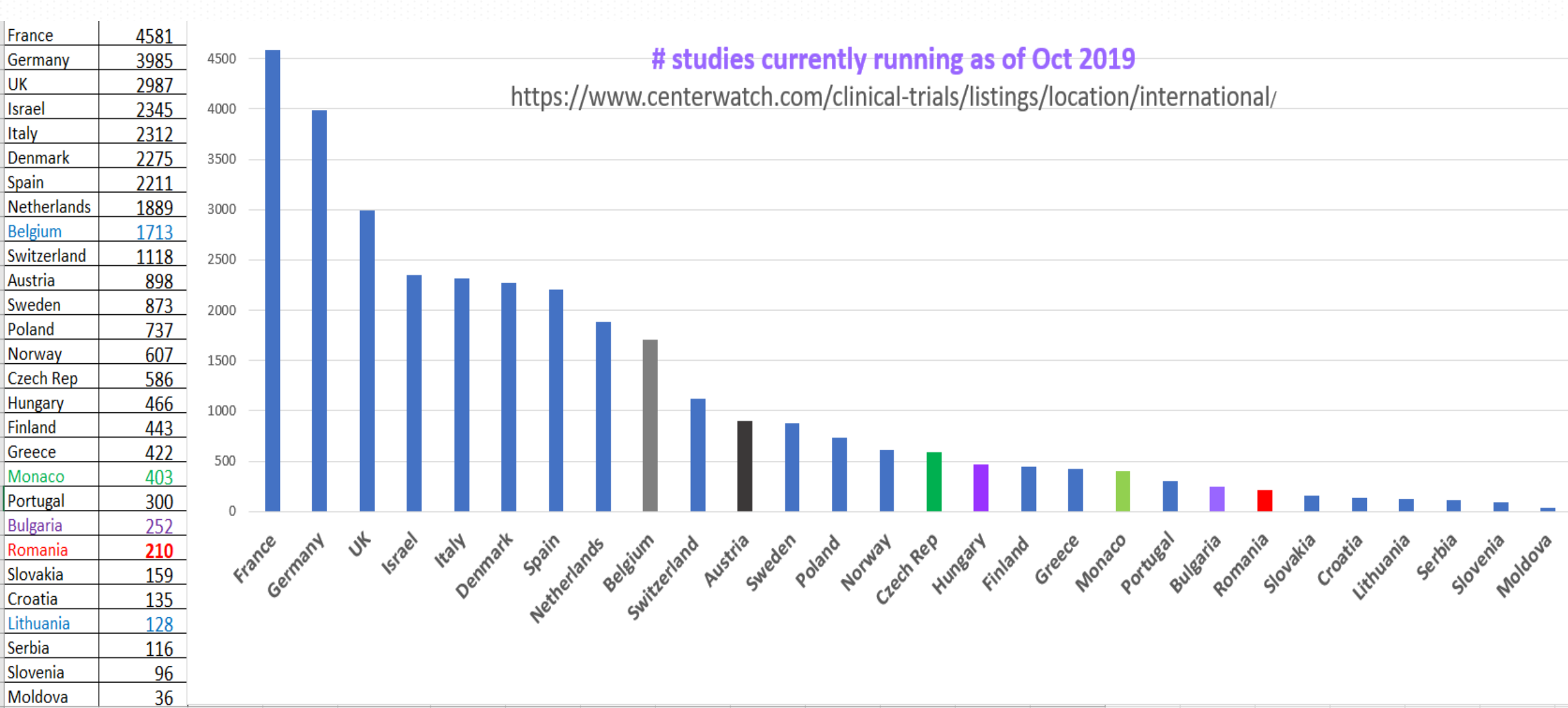
www.centerwatch.com

Clinical Trial active as of 4 Oct 2019	1,642,973
HealthyVolunteers	445
AbdominalCancer	35
AbdominalSurgery	83
AbnormalBloodVessels(ArteriovenousMalformations)	1
Achalasia	28
Acne	119
AcneInversa	25
AcquiredImmuneDeficiencySyndrome(AIDS-Pediatric)	4
Acromegaly	34
AcuteandChronicDentalPain	1
AcuteMyelogenousLeukemia(AML)	426
AcuteMyeloidLeukemia	582
AcutePain	535
AcuteRespiratoryDistressSyndrome(ARDS)	99
AcuteRhinitis	4
Addictions	513
Adenocarcinoma	923
AdrenalCancer	38
Advanced Malignancies	1,038
AdverseEffects,Drugs	56
AffectiveDisorders	790
Aggressive Fibromatosis	12
Aging	12,201
AIDS and AIDS related infections	28
AlcoholDependence	2,861

Evolution ROMANIA

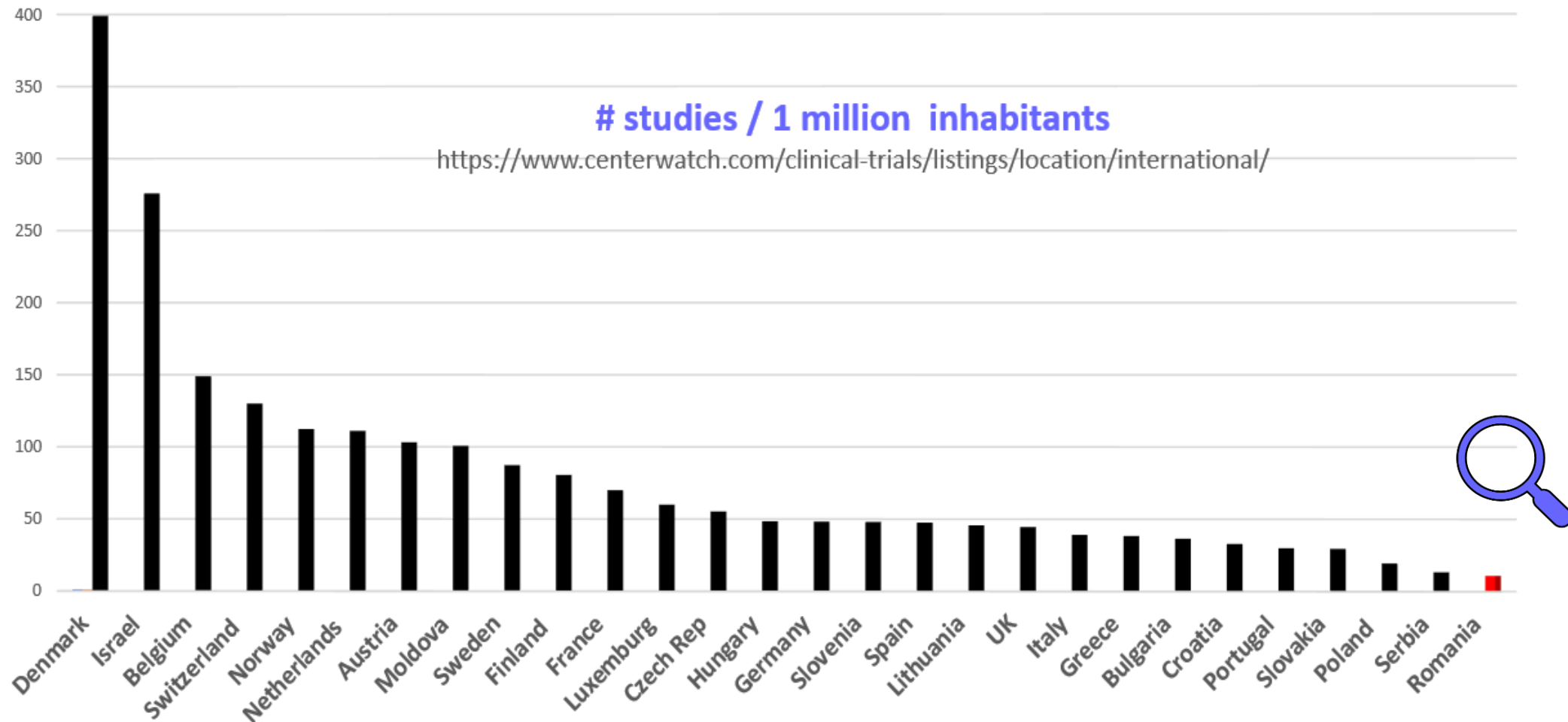


Number of CT currently running per country - EU



Coverage with innovative medicines

	# studies / 1 million inhabitants
Denmark	399
Israel	276
Belgium	149
Switzerland	130
Norway	112
Netherlands	111
Austria	103
Moldova	101
Sweden	87
Finland	81
France	70
Luxembourg	60
Czech Rep	55
Hungary	49
Germany	48
Slovenia	48
Spain	48
Lithuania	46
UK	45
Italy	39
Greece	38
Bulgaria	37
Croatia	33
Portugal	30
Slovakia	29
Poland	19
Serbia	13
Romania	11



Clinical trials in various EU medical centers

Sursa: ClinicalTrials.gov - May 2019

Country	Medical center	Active Studies	Oncology
Romania	Inst Oncologic Cluj-Napoca	9	9
Romania	Inst Oncologic Bucuresti	10	10
Spain	Vall d'Hebron Barcelona	644	342
France	Instit Gustave Roussy –	428	428

Prezentarea publica a Instit Gustave Roussy – Villejuif-Paris-France:



€375.6M
overall budget

62
articles published in journals
with an impact factor
between 20 and 30
(excluding conferences)

3,617

patients included
in clinical research studies
representing

28 %
of patients treated in 2017



26

University diplomas
and one Master's
degree in Oncology



428

clinical trials in 2017,
of which

64

sponsored by Gustave Roussy

3 000

students and professionals
trained per year



ACCSCR

Any Questions?

Thank you !