



RaDiCo (Rare Disease Cohorts): a platform for rare disease (RD) e-cohorts

Sonia Gueguen, Serge Amselem, Annick Clement, Paul Landais

► To cite this version:

Sonia Gueguen, Serge Amselem, Annick Clement, Paul Landais. RaDiCo (Rare Disease Cohorts): a platform for rare disease (RD) e-cohorts. World Conference on Rare Diseases (RARE2021), Feb 2021, Virtuel Event, France. inserm-04059748

HAL Id: inserm-04059748

<https://inserm.hal.science/inserm-04059748>

Submitted on 5 Apr 2023

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

RaDiCo (Rare Disease Cohorts): a platform for rare disease (RD) e-cohorts

Guéguen S, Amselem S, Clement A, Landais P for the RaDiCo team.

Background

Implementing RD cohorts is a challenge: RDs are seldom, often underdiagnosed and spread over the national territories.

Objective

To create a national platform for the development, within a research framework, of RD e-cohorts.

Material and Methods

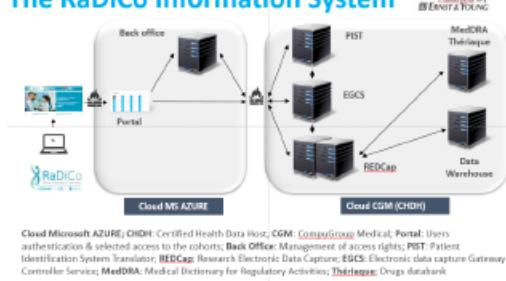
The platform, built on the "cloud computing" principle, oriented as an "Infrastructure as a Service"; Interoperable; In compliance with the GDPR; Within a Certified Health Data Host; Ensuring continuous monitoring of data quality and consistency; In line with the French Health Data Hub.

The RaDiCo platform in brief: How did we proceed?



Results

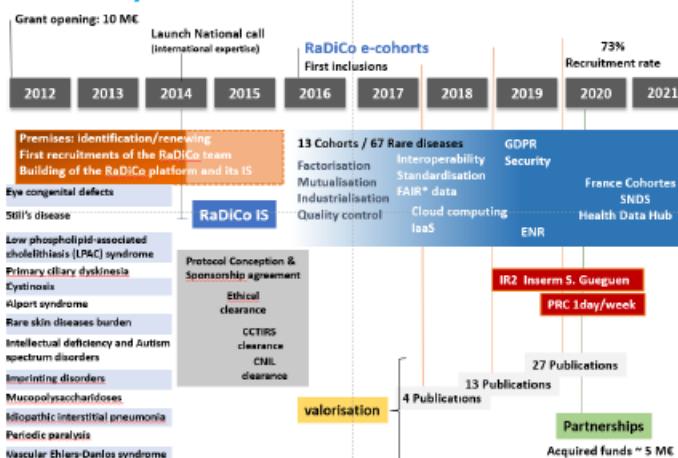
The RaDiCo Information System



13 ongoing RaDiCo e-cohorts involving 67 RDs

Diseases	Cohorts	PI	RDHN	ERN
Eye congenital defects	AC-CEIL	N. Chasseng P. Calvas	SENSENE AnOdi-Rares	ERN-Eye
Still's disease	ACOS-Still	S. Gueguen-Lavallée B. Faure	FAI2R	ERN-Rts
UPAC syndrome	COLPAC	C. Corpechot	FILPOIE	RARE-LIVER
Primary ciliary dyskinesia	DCP	E. Escudier B. Maitre	RESPiFiL	ERN-Lung
Cystinosis	ECYSCO	A. Servais	ORKID	ERKinet
Alport syndrome	EURBIO-Alport	L. Heidet B. Knebelmann	ORKID	ERKinet
Rare skin diseases burden	FARD	C. Bodemer	FIMARAD	ERN Skin
Intellectual deficiency and Autism spectrum disorders	GenIDA	J.L. Mandel	D4RSscience	AnOdi-Rares
Imprinting disorders	IDMet	A. Lingart I. Netchine	FIRENDO OSCAR D4RSscience	EHDO-ERN
Mucopolysaccharidoses	MPS	B. Héron	G2M	MetabERN
Idiopathic interstitial pneumonia	PID	A. Clement	RESPiFiL	ERN-Lung
Periodic paroxysms	PP	S. Viard	FILNEMUS	ERN euro-FM
Vascular Ehlers-Danlos syndrome	SEDVasc	X. Jeunemaitre	FAVA-Multi	VASCERN

RaDiCo key milestones



Conclusion

RaDiCo provides a flexible & easily sharable platform for the creation & follow-up of national/international RD e-cohorts.