



Adrenal MTG1



Nicole Reisch



Svetlana Lajic



Johan Beun



Jette Kristensen



Manuela Brösamle

+ new ePAGs: Allessandro Lazzerini + Giorgio Dalmaso

On-going activities

Survey on the use of prenatal Dex across Europe – publication accepted in EJE

Hanna Nowotny, Oliver Blankenstein, Uta Neumann, Faisal Ahmed, Stephanie Allen Federico Baronio, Tadej Battelino, Jérôme Bertherat, Marco Bonomi, Aude Brac de la Perrière, Véronique Tardy-Guidollet, Rita Menassa, Sara Brucker, Marco Cappa, Philippe Chanson, Claire Bouvattier, Annamaria Colao, Martine Cools, Justin Davies, Wiebke K. Fenske, Ezio Ghigo, Claus H. Gravholt, Angela Huebner, Eystein Sverre Husebye, Anders Juul, Florian Kiefer, Juliane Léger, Gesine Meyer, Leonidas A. Phylactou, Julia Rohayem, Gianni Russo, Carla Scaroni, Philippe Touraine, Nicole Unger, Hedi L. Claahsen-van der Grinten, Jarmila Vojtková, Diego Yeste, Helmut-Günther Dörr, Svetlana Lajic, Nicole Reisch.

Prenatal dexamethasone treatment for classic 21 hydroxylase deficiency in Europe. Eur J Endo. Accepted for publication, Dec 2021.

- **PREDICT study:** European, prospective, randomised, double-blind clinical trial on prenatal therapy (currently used experimental dose of 20µg/kg/d vs low dose) -> positively evaluated at BMBF (German National Ministry of Education and Research). Start 2022, delayed due to pandemic.
- Improve and increase the info on the EndoERN/MTG1 webpage info material for patients, publications of general interest.
 - HCPs need to send information if they want something on the web-page
 - Volunteers for taking care of the web-page?

•	New survey	on the availabi	ity of medication	for adrena	l insufficience	accross Europe.
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Will be sent to HCPs of EndoERN and patient organisations within a few weeks.

- We need to plan new webinars. Suggestions for topics?
- New CPMS sessions.
- Suggestions for other activities?
- ePAG activities?

[MTG2/Ca-P]





Agnès Linglart



Lars Rejnmark





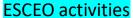
Martha Kirchhoff *ePAG*

[1- Guidelines]

endo ERN + BOND + ESPE + ESE

PARAT program activities 2020–2021 supported by the European Society of Endocrinology (ESE)

Bollerslev J, Rejnmark L, Zahn A, Heck A, Appelman-Dijkstra NM, Cardoso L, Hannan FM, Cetani F, Sikjær T, Formenti AM, Björnsdottir S, Schalin-Jantti C, Belaya Z, Gibb FW, Lapauw B, Amrein K, Wicke C, Grasemann C, Krebs M, Ryhänen EM, Makay O, Minisola S, Gaujoux S, Bertocchio JP, Hassan-Smith ZK, Linglart A, Winter EM, Kollmann M, Zmierczak HG, Tsourdi E, Pilz S, Siggelkow H, Gittoes NJ, Marcocci C, Kamenicky P. European Expert Consensus on Practical Management of Specific Aspects of Parathyroid Disorders in Adults and in Pregnancy: Recommendations of the ESE Educational Program of Parathyroid Disorders. Eur J Endocrinol. 2021 Dec 1;186(2):R33–63. doi: 10.1530/EJE-21-1044.



Andrea Trombetti; Nasser Al-Daghri; Maria Luisa Brandi; Jorge B. Cannata-Andía; Etienne Cavalier; Manju Chandran; Catherine Chaussain; Lucia Cipullo; Cyrus Cooper; Dieter Haffner; Pol Harvengt; Nicholas C. Harvey; Muhammad Kassim Javaid; Famida Jiwa; John A. Kanis; Andrea Laslop; Michaël R Laurent; Agnès Linglart; Andréa Marques; Gabriel T. Mindler; Salvatore Minisola; María Concepción Prieto Yerro; Mario Miguel Rosa; Lothar Seefried; Mila Vlaskovska; María Belén Zanchetta; René Rizzoli. Interdisciplinary management of FGF23-related phosphate wasting syndromes: a consensus statement on X-linked hypophosphatemia. Nature Reviews Endocrinology, in press





[2- Dissemination]













Hypophosphatemic rickets / incomplete overview Transitional care path for patients Lars Reinmark and Martha Kirchhoff, ePAG

Endocrinologie et diabète de l'enfant CRMR du métabolisme du calcium et du Phosphate Filière OSCAR









EndoERN Symposium @ ESPE









= involvment in = Participation to Unique registry for bone and ca&P disorders





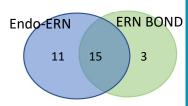




Country		Centers	Country		Centers
	10	_	∀ ∀		
-	Austria	2	~~	Israel	1
507	Belgium	5		Italy	9
	Croatia	1		Latvia	1
	Czech Republic	1		Lithuania	1
	Estonia	1		Netherlands	3
	Finland	1		Romania	1
	France	1	i i	Spain	3
	Germany	7		Sweden	1
	Hungary	1		United Kingdom	4

Table 1. Number of active reporting centres per country

Reporting centres e-REC April 2020– December 2021



14 Non-ERN members and ERN affiliated partners

Fig.1 - Reporting centers and affiliation to Endo-ERN and ERN-BOND.

Courtesy of N. Appelman

Conditions reported e-REC, Jul18 to Dec 21



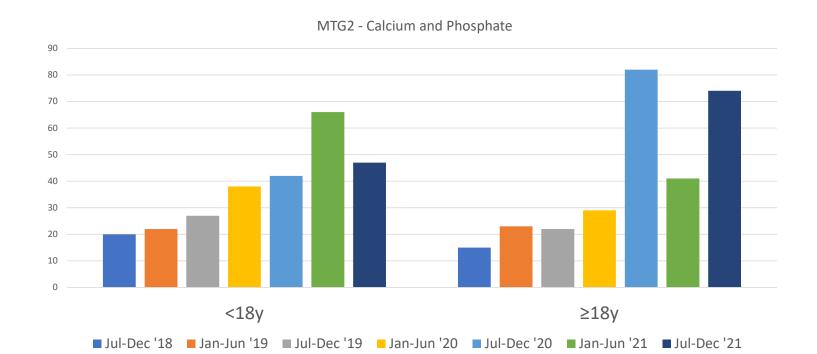
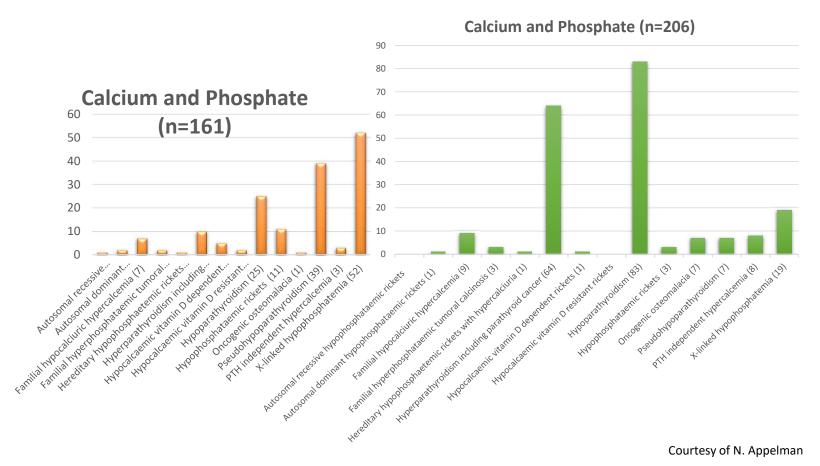




Fig. 5,6 – Specific diagnosis reported from April 2020 to December 2021

<18 years

>18 years

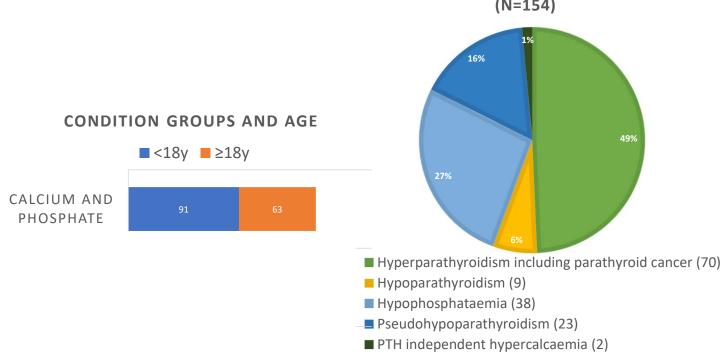


Core Registry registered conditions



13 centres from 10 countries 154 patients

CALCIUM AND POSPHATE - PRIMARY CONDITION (N=154)



Expert Working Group 1 – Ca & PO



Team

Agnès Linglart (EWG deputy)
Paris, FR
Lars Rejnmark (E co-WG deputy)
Anne-Sophie Lambert
Arnaud Peramo
Paris, FR
Guillemette Devernois
Paris, FR
Paris, FR

Justin Davies
Southampton, UK
Susanne Thiele
Wolfgang Holger
Linz, AU
Gabriele Hausler
Vienna, AU
Alexandra Ertl
Vienna, AU
Vienna, AU

Kassim JavaidUKCorinna GrasemannEssen, DECarola ZillikensRotterdam, NLNatasha Appelman-DijkstraLeiden, NL

Hans Zmierczak BE
Karine Briot Paris, FR
Ralf Oheim Hamburg, DE



Regular Financial meetings @ local institution AL + IN + Thibaut Vanrietvelde Chargé d'affaires européennes – APHP ~ 15k€ available to facilitate the project











The project '777215 / EuRRECa' has received funding from the European Union's Health Programme (2014-2020) and is part of the project '946831 / EuRR-Bone' which has received funding from the European Union's Health Programme (2020-2023).

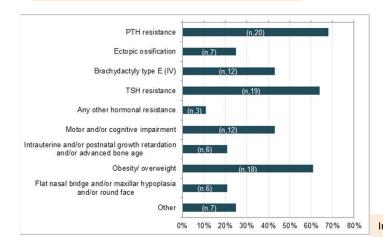


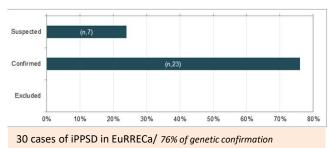
EuRRECa 4th Annual Meeting – 14th February 2022

1st step: use data from e-REC and Core Registry/ Surveys

Surveys conducted by the EuRRECa office at 2 time-points August 2020 and March 2021 Data on reported data on iPPSD cases from July 2018 to August 2020

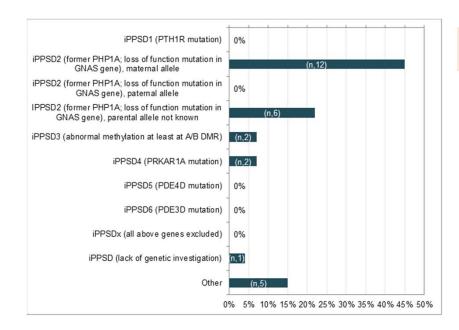
- •Feedback on 30/39 reported cases (77%)
- •Respondents: 80%
- •13/15 centres (87%)





Important data on the major and minor diagnostic criteria





Overview of reported pathologies



EuRRECa Surveys Inactivating PTH/PTHrP signaling disorder (*iPPSD*)/*PTH resistance*

iPPSD Survey team - Agnes Linglart, Alexandra Ertl EuRRECa Project Team - Salma Ali, Jillian Bryce, Faisal Ahmed

Findings

- •77% of iPPSD cases for whom e-REC IDs responded positive to the survey
- •76% of cases had a confirmed diagnosis of iPPSD
- •Clinical, biochemical and/or genetic analysis were the most commonly performed tests to obtain or exclude a diagnosis
- •PTH and TSH resistance: most common diagnostic findings (>50%)
- •The vast majority of genetically confirmed cases: loss of function mutation in the GNAS gene

Audio ePoster at e-ECE 2021, online from 22-26 May 2021

Ana Luisa Priego Zurita, Jillian Bryce, Salma Rashid Ali, Diana-Alexandra Ertl, Corinna Grasemann, Gabriele Haeusler, Lars Rejnmark, Faisal Ahmed, Natasha Appelman-Dijkstra & Agnès Linglart

Submission number: 1441

Title: European Registries for Rare Endocrine Conditions (EuRRECa): the Use of an e-Reporting Tool for Registering Calcium and Phosphate Conditions.



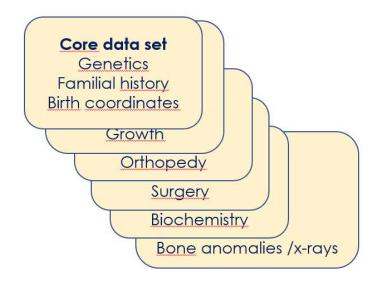
- Developpement of the iPPSD disease specific module
 - Step 2: Implementation of the new classification

Declaration to ORPHANET → pending

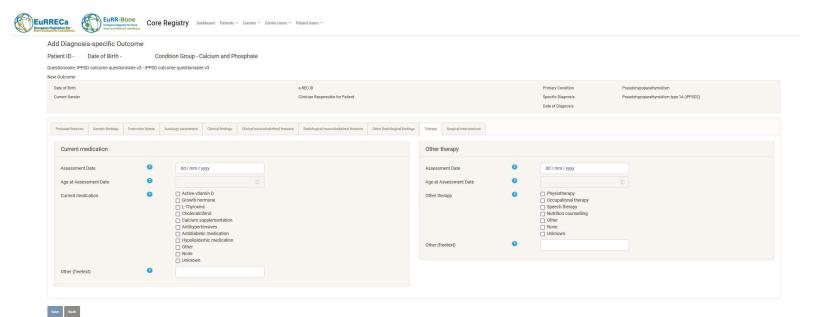
Step 3: generate condition specific modules for longitudinal data collection for iPPSD

Team: A. Linglart, A. Ertl, G. Peres de Nanclares, G. Mantovani

- *Several meetings with the Glasgow team: Jillian Bryce, Faisal Ahmed
- *Co-work with EuRR-Bone Registry: Natasha Appelman-Dijkstra, Ana Luisa Priego Zurita









EuRRECa 4th Annual Meeting - 14th February 2022



Inactivating PTH/PTHrP signaling disorder (iPPSD)/PTH resistance



We kindly invite you to join and share you data!

Thank you!

Disease-specific module – HypoP



The working team

A. Ertl

A. Raimann

G. Hauesler

R. Oheim

K. Briot

ML Brandi

C. Zillikens

J. Bauer

C. Grassemann

O. Nilsson

P. Kamenicky

G. Mindler

F. Ahmed

N. Appelman

A. Priego

J. Bryce

Send an e-mail to agnes.linglart@aphp.fr

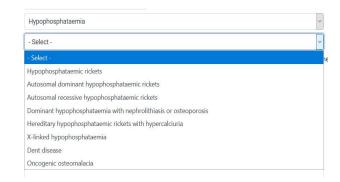
Approx 1 hour meetings every 6 weeks
Review of the google sheet or registry

Implementation of the registry and patient's test

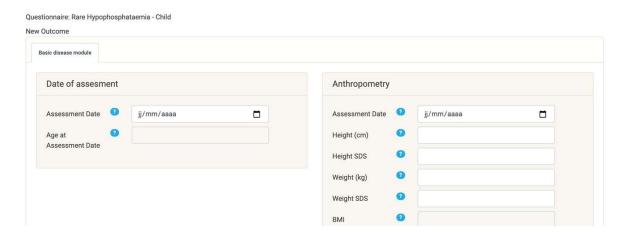
Disease-specific module – HypoP



List of disorders



Basic module



Disease-specific module – HypoP



- Specific sub-modules
 - o ADULT/PEDIATRICS
 - o Auxology; musculoskeletal, dental, neurosurgery, orthopedic,
 - o Rheumatologic; biochemistry, genetics
- To be implemented: patients reported outcomes

[4- CPMS meetings]



Common to BOND

8 patients in 2021 2 in 2022



Save the date



Next MTG2 meeting



13th April, 4pm CET
On zoom





Prof. Dr. Thomas Danne Hannover, Germany Pediatric



Prof. Pietro Maffei Padova, Italy. Adult



Genetic Disorders of Glucose and Insulin Homeostasis

MTG 3

Monday Feb 15, 2022

Valeria Corradin Mason Vicentino, Italy ePAG representative AILIP (Ass.ne Italiana Lipodistrofia)



Dr. Katharina Klee, Hannover, Germany Coordinator





Adding a new ePAG Member still pending



Work in progress...

HORIZON-HLTH-2022-DISEASE-06-04-two-stage: Development of new effective therapies for rare diseases

Specific conditions		
Expected EU contribution per project	The EU estimates that an EU contribution of around EUR 8.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.	
Indicative budget	The total indicative budget for the topic is EUR 60.00 million.	
Type of Action	Research and Innovation Actions	

Call: HORIZON-HLTH-2022-DISEASE-06-two-stage

(Tackling diseases (Two Stage - 2022))

Topic: HORIZON-HLTH-2022-DISEASE-06-04-two-stage

Type of action: HORIZON-RIA

Type of Model Grant Agreement: HORIZON Action Grant
Budget-Based
Proposal number: 101080948-1

Proposal acronym: REDIRECT

REDIRECT: REPURPOSING DRUGS FOR NEW EFFECTIVE THERAPIES IN RARE MONOGENIC DIABETES

List of participants

Participant No. *	Participant organisation name	Country
1 (Coordinator)	University of Padua	Italy
2	ALMS Therapeutics	France
3	Azienda Ospedale-Università Padova	Italy
4	University of Lisbon	Portugal
5	Hannoversche Kinderheilanstalt	Germany
6	University of Birmigham	UK
7	University of Vigo	Spain
8	Institut National de la Sante Et de la Recherche Medicale	France
9 Affiliated entity to 8	University of Strasbourg	France



































Alström Syndrome Phenotype



6-year-old

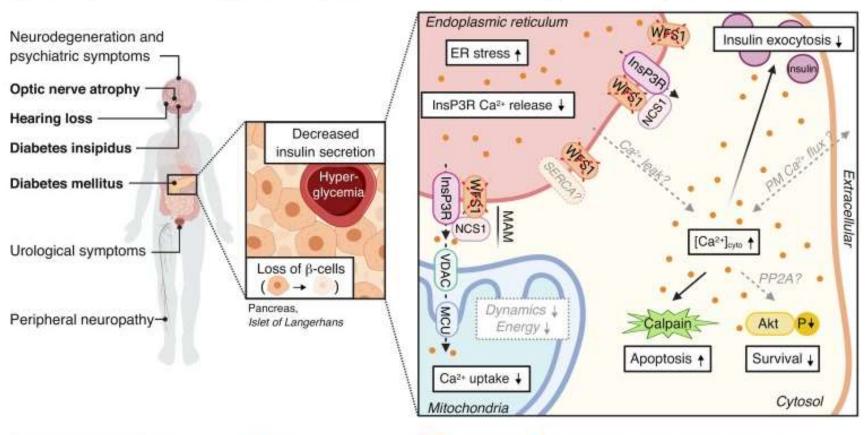
- Autosomal recessive
- Prevalence < 1:1.000.000
 - Cone-rod dystrophy
 - Hearing loss
 - Obesity
- Hyperinsulinemia, T2DM
 - Hypertriglyceridemia
- DCM, Liver, kidney failure
 - Systemic fibrosis

Wolfram syndrome

(a) Clinical presentation:

(b) Cellular dysfunction:

(c) Molecular impairments:



Symptoms of characteristic "DIDMOAD"-phenotype in **bold** β-cell,blood vessel

loss of WFS1, calcium (Ca²+), ↓ decreased, ↑ increased,
P = phosphorylation, PM = plasma membrane, grey italicized and dashed lines indicate questions that require further investigations.

Bardet-Biedl Syndrome

ii. Diagnostic features Primary features Frequency Rod-cone dystrophy 93% Polydactyly 63-81% All four limbs: 21% Upper limbs only: 9% Lower limbs only: 21% 72-92% Obesity Genital anomalies 59-98% Renal anomalies 53% Learning difficulties 61%

Secondary features	
Speech delay	54-81%
Developmental delay	50-91%
Diabetes mellitus	6-48%
Dental anomalies	51%
Congenital heart disease	7%
Brachydactyly/ syndactyly	46-100%/8-95%
Ataxia/ poor coordination	40-86%
Anosmia/hyposmia	60%





Forsythe et al, Frontiers in Pediatrics, 2018

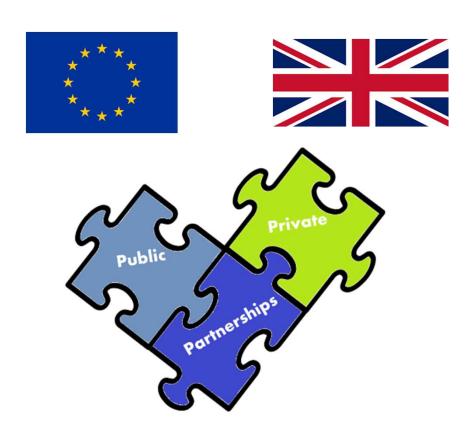
1.1 Objectives and ambition

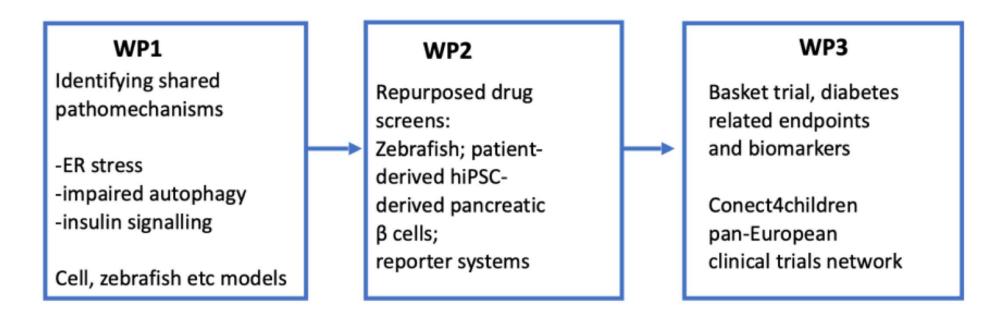
Diabetes mellitus with metabolic syndrome and and their systemic complications, are major health issues of rare monogenic diabetes disorders, and are caused by a combination of insulin resistance and beta cell failure. We aim to work on a new therapeutic approach for monogenic rare diabetic disease (RDS) syndromes by repurposing existing therapies in order to prevent or slow-down the progress of diabetes, obesity and their systemic complications. We will address the disconnect between basic science discoveries about the mechanisms of these diseases and the care of patients by linking preclinical data on therapy to early phase clinical trials.

- 1) Set-up a knowledge and research hub
- 2) Identifying shared pathomechanisms
- 3) Repurposed drug screen in pre-clinical models
- 4) Patient recruitment in clinical trials and access to tissue samples through registries
- 5) Patients advocacy group
- 6) Pivotal trial exemplar
- 7) Legacy therapeutic discovery and development pipeline









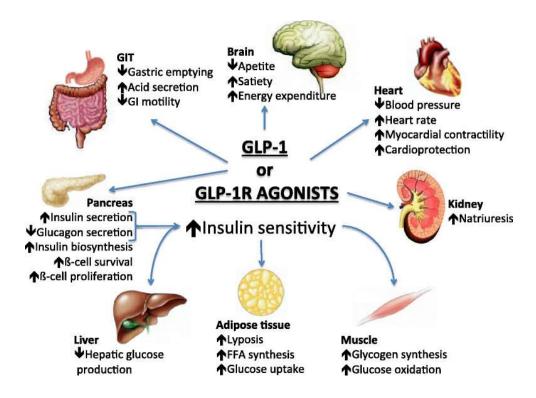
WP4

Patient support groups involvement and engagement, patient registries

WP5

Project coordination- University of Padova

WP3. Pivotal trial exemplar. Rationale: Currently, no drugs are globally approved for the treatment of WS, AS or BBS. First-line therapy of metabolic complications are lifestyle intervention (especially diet and physical exercise), insulin, and treatment of comorbidities. Evidence supports a role of the GLP-1 agonists to control diabetes, obesity and their systemic complications. Name of the investigational product: Liraglutide (human glucagon-like peptide-1 (GLP-1) analogue produced by recombinant DNA technology in Saccharomyces cerevisiae). Pharmaceutical form: Solution for injection. Pivotal treatment indication: treatment of pre-diabetes, diabetes, and/or overweight WS, AS, BBS. Objectives: Primary end point: mean change from baseline in HbA1c, glycated albumin, BMI SDS, at week 24. 2) Secondary end point: to evaluate the safety and tolerability. 3) Exploratory end points: to assess the effect of



Next steps..

The proposals should involve group(s) of rare diseases (i.e. a rare disease being individually defined in the European Union as affecting not more than five in 10.000 persons). Proposals that plan to run clinical trials should demonstrate that they have already taken into account scientific advice⁸⁴ or protocol assistance from EMA. In particular, the proposals planning the clinical development of orphan medicinal products should demonstrate that they have been granted approval for an orphan designation at the latest on the date of the call deadline.



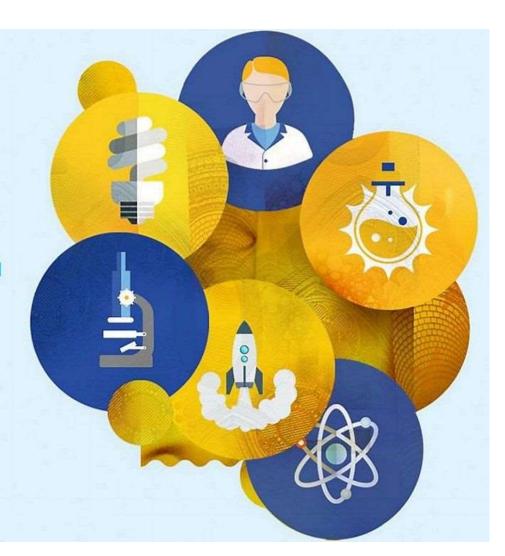
23 April 2021 EMADOC-628903358-2283 Human Medicines - Scientific Evidence Generation

Deadlines for submission of applications for orphan medicinal product designation to the EMA and corresponding COMP timetable for valid applications 2021/2022

Submission deadline	Start of procedure Day 1	COMP meeting Day 60 (1 st discussion)	COMP meeting* Day 90 (2 nd discussion)
25/02/2022	25 March 2022	10-12 May 2022	14-16 June 2022
24/03/2022	19 April 2022	14-16 June 2022	12-14 July 2022

Horizon Europe

THE NEXT EU RESEARCH & INNOVATION PROGRAMME (2021 – 2027)





MTG 4 - Genetic Endocrine Tumour Syndromes



Dr. Antje Redlich University Magdeburg



Prof. Attila Patocs Semmelweis University



Petra Brügmann ePAG, EMENA







Agenda MTG 4 meeting 15 february 2022 / 15.30 – 16.00

- 1. Introduction current HCP 's and new members What do you expect? Ideas? Contribution?
- 2. Ongoing projects
 - 2.1. Submissions / Publications/Grant applications
 - 2.2.Trials
 - 2.3. Recommendations / guidelines
 - 2.4. Endo ERN Webinars
- 3. Registries
- 4. Collaboration with patients's advocacy groups



Current HCPs and New members Expectations ? Ideas ? Contribution ?

A3 HCPs

Belgium	4
Bulgaria	1
Denmark	3
Finland	2
France	3
Germany	4
Greece	1
Hungary	1
Ireland	1
Italy	11
Latvia	1
Malta	1
Netherlands	4
Norway	1
Spain	2
Sweden	2





2.1. Publications in 2021 Endocrine, Special Endo-ERN issue





Molecular genetic testing strategies used in diagnostic flow for hereditary endocrine tumour syndromes
Butz H, Blair J, & Patócs A.(Endocrine., 2021(2).)

Patients' perception on the quality of care for multiple endocrine neoplasia disorders in Europe: an online survey from a patient support group Drewitz KP, Grey J, Brügmann P, Pichl J, Sammarco M, Aarts M, ... Schaaf L.(Endocrine., 2021(2).)

Cancers, Special issue of thyroid cancer

Epidemiology and Survival Analysis of MTC:20 years experience in Hungary



2.1. Submissions in 2022 Endocrine Connections, Special Endo-ERN issue

Epidemiology of Endocrine Tumour Syndromes in Children and Adults.





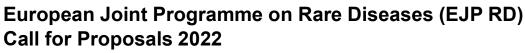
IDENTIFY an integrated pseudohypoxia tissue phenotype

VALIDATE diagnostic pseudohypoxia tissue phenotype prospectively

> pseudohypoxia phenotype for diagnosis and treatment

TARGET pseudohypoxia signaling

2.2. Grant proposal



"Development of new analytic tools and pathways to accelerate diagnosis and facilitate diagnostic monitoring of rare diseases"

Hypo PD: Rare tumor predisposition (PD) syndromes that converge on activated hypoxia signaling (HYPOX)

Principal investigator: Matthias Kroiss (LMU

München)

Participants:

ENDO-ERN Main Thematic Group (MTG) 4: Reference Centers (RC) involved and representative of

each RC involved in the project:

- Ludwig-Maximilians-University Munich, DE: Matthias Kroiß
- University Medical Center Utrecht, NL: Ronald de Krijger
- Semmelweis University Budapest, HU: Attila Patocs





VHL PHEO (n=131)

SDHx PPGL (n=521)

non-HYPOX PD PPGL (n=229)

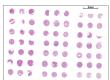


oncocytic yroid cancer (n=49)



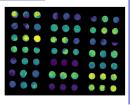
ncocytic tumors (n=74)* control tumor (n=199) available tumor MS data (n>1000





TMA construction

MALDI-MSI

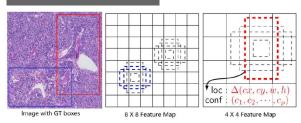


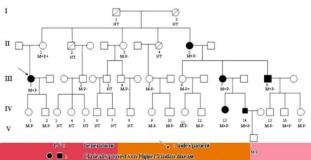
Metabolome



full slide image

feature selection

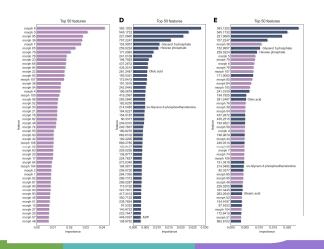




Morphology

Genetics

Al Biomarker





2.3. Recommendations / Guidelines

• MEN 1 Guideline - global expert group

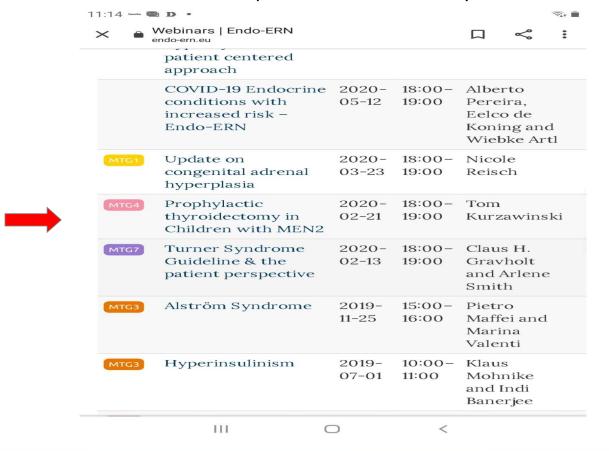
M.L.Brandi/G.Valk/R.Thakker ongoing

Pediatric:

 Neuroendocrine Tumors of the appendix
 EXPeRT (European Cooperative Study Group for Pediatric Rare Tumors)

2.4. Endo – ERN Webinars

Please consider contributing a webinar to one of the disease groups of MTG 4 — thanks for the presentation in february 2020!









Multiple endocrine neoplasia type 2B: diagnosis before development of advanced medullary thyroid carcinoma

Dermatological aspects of hereditary endocrine tumors (M Medvecz, Semmelweis University)

3. Registries





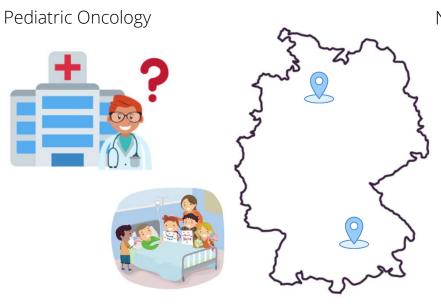


GPOH-MET Registry

Antje Redlich



Trials and registries in pediatric oncology in Germany



National study center

- Collects data and samples of all affected children in Germany
- Reference institutions (pathology, imaging etc.) and scientific projects
- Recommendations regarding diagnostics, therapy and follow up
- Multidisciplinary study commission with experts on the field



Malignant endocrine tumors in children

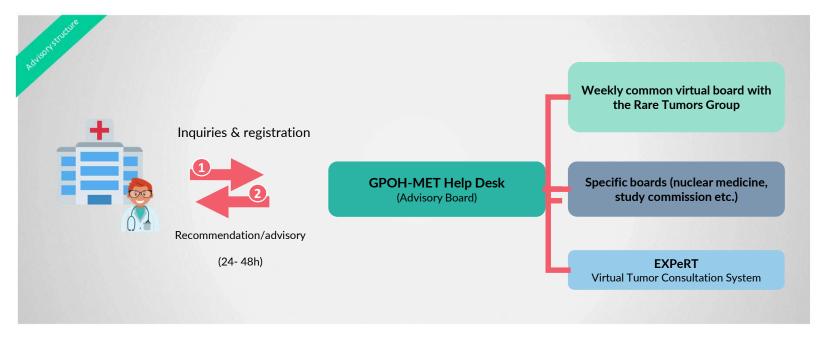
Registered patients per years in Germany





0-

Easy accessible and powerful advisory







æ **GPOH** Internal medicine/Endocrinology/Clin. chemistry Pediatric oncology Redlich, Antje Investigator, EXPeRT Magdeburg Faßnacht, Martin Adrenal research CRC Würzburg Kuhlen, Michaela Co-Investigator Augsburg Pape, Ulrich-Frank NET-Registry Hamburg Schneider, Dominik Dortmund Eisenhofer, Graeme Adrenal research CRC Dresden STEP-Registry, EXPeRT Brecht, Ines Tübingen STEP-Registry, EXPeRT Kratz, Christian Cancer predisposition registry Hannover **Nuclear medicine** Langer, Thorsten LESS Project Lübeck Pfister, Stefan **INFORM Registry** Heidelberg Luster, Markus Reference center RIT Marburg Frühwald, Michael **EU-RHAB Registry** Augsburg Kreißl, Michael Magdeburg Pathology Pediatric endocrinology **DG:KED** Hübner, Angela Adrenal research CRC Dresden Vokuhl, Christian Bonn Rohrer, Tilman Homburg Schmid, Kurt Werner Essen Palm, Katja Magdeburg (2) **Endocrine surgery Pediatric surgery** Lorenz, Kerstin Halle Seitz, Guido Marburg CAEK Musholt, Thomas Mainz Fitze, Guido Dresden Registry Eurocrine **Human genetics Statistics** Zenker, Martin Magdeburg Stendal Hering, Thomas

4. Collaboration with patients's advocacy groups



The current Endo-ERN **European Patient Advocacy Group**likes to get in contact with groups in South European and East European countries.

If you collaborate with a patients groups in your country, please contact the office in Leiden or one of the members of the Endo-ERN patient advocacy group.

Furthermore: we like to improve the website and are looking for **patient materials** connected with the MTG 4 disease aera in different languages.





MTG 5 - Growth and genetic obesity syndromes







Prof. Irène Netchine, MD, PhD Pediatric Endocrinology Trousseau Children Hospital Pierre et Marie Curie School of Medicine Paris, France



Elisabetta Freo, ePAG chair, A Fa DOC, Italy



Patricia Carl, ePAG chair, BKMF, Germany



Nathalie Ferard, ePAG chair, Ass. Grandir, France



Prof. Gudmundur Johannsson,

MD, Ph.D

Endocrinology

Sweden

Berit Otterlei, ePAG chair, Landsforenin gen for PWS, Norway



Erika van den Akker NE Maité Tauber FR Thomas Eggermann GE Anita Hokken Koelega NE Christine Poitou FR



Activities 2020-2022



Webinars:

2020 - Genetic Obesity Disorders caused by Leptin-melanocortin Pathway Defects- Erica van den Akker

2020 - Prader Willi Syndrome - Anita Hokken-Koelega (SG-ESPE)

2020 - Clinical guidelines on Silver Russles syndrome – Iréne Netchine

2020 - Webinar Molecular diagnosis of imprinting and growth disorders- Thomas Eggermann

2021 - Clinical trials with new drugs in PWS - Maithe Tauber

2021- Beckwith Wiedemann Syndrome – Frederic Brioude

2021 – PWS syndrome and transition of care a MTG 5 Symposia

MTG5 online meetings- 2 monthly

CPMS Panel

Recurrent time slots every 2 months (limited activity)

Registry EuRReCa contribution

- Registry of patients (some centres)
- Survey genetic obesity
- Survey COVID and Growth & Obesity disorders

2022 - Planned

Noonan syndrome - clinical and genetic features?

Best management of adolescents and young adults with genetic obesity (syndromic and non-syndromic)

Craniopharyngioma and obesity (together with MTG6)

Achondroplasia and novel treatments

MTG 5 SYMPOSIUM 16 November 2021

Prader Willi Syndrome (PWS) Clinical management of transition of care

2:00 - 2:30	Introduction - PWS and transition of care - the paediatric aspects (Maithé Tauber- FR)
2:30 - 3:00	PWS and transition of care - focus on psychology (Tony Holland - UK)
3:00 - 3:45	PWS and transition of care - endocrine care of the young adults
	Adrenal insufficiency and hypogonadism (Laura De Graaf - NL)
	Growth hormone treatment (Charlotte Højbye - SE)
3:45 - 4:00	Break "Learning from People with Prader-Willi Syndrome" a video from International PWS Organisation
4:00 - 4:20	Coordination of transition and management of transitional care for patients with rare endocrine disorders (Christine Poitou and Sandrine Bottius)
4:20 - 4:50	Patient's and parent's view on transition of care
	The parent's view "Thank you for listening" (Berit Otterlei – NO)
	The patient's view (pre-recorded - 27 years with PWS)





Publications

ERN Publications

Clinical management of patients with genetic obesity during COVID-19 pandemic: position paper of the ESE Growth & Genetic Obesity COVID-19 Study Group and Rare Endo-ERN main thematic group on Growth and Obesity. de Groot et al. *Endocrine* jan 2021.

Growth restriction and genomic imprinting - overlapping phenotypes support the concept of an imprinting networkAuthors: Eggermann et al. *Genes* 2021

The EuRRECa Project as a Model for Data Access and Governance Policies for Rare Disease Registries That Collect Clinical Outcomes. Ali et al. *Int. J. Environ. Res. Public Health* 2020

Genetic testing in inherited endocrine disorders: joint position paper of the European reference network on rare endocrine conditions (Endo-ERN) Eggermann et al. *Orphaned journal of rare diseases 2020*





MTG6 – Pituitary



Evangelia Charmandari Pediatric Chair



Nienke Biermasz Adult Chair



Johan de Graaf ePAG



Diana Vitali ePAG

Update MTG 6 Pituitary

Registries (EuRRECa)

- E-Rec registration
- E-Rec COVID registrations (in collaboration with ESE) / core registry
- Disease specific modules (EuRRECa: 1) aggressive pituitary tumors; working group established, 2) additional modules.

Guidelines

Pregnancy and pituitary adenoma (ESE guideline, EndoERN collaborated through participation of Susan Webb), finalized

Congenital hypopituitarism, in preparation, request support if possible otherwise continue with the guideline group composed prior to covid

Papers

An overview of clinical activities in Endo-ERN: the need for alignment of future network criteria (published EJE)

Outcomes of pituitary surgery within the Endo-ERN (in preparation)

Endocrine Minireviews (in preparation), please let us know ideas for future ideas

Patient care (CPMS)

Several cases discussed but: please consider to discuss your interesting cases!

Webinars (MTG6)

Daly (Liege, genetic pituitary disease); Trotsenburg/Zwaveling-Soonawala/Naafs (Amsterdam, congenital central hypothyroidism); de Vries/Biermasz/Pereira (Leiden, Value based health care in pituitary disease)

Please bring your ideas

Surveys and patient journeys

Cushing (cardiovascular), SOD, Transition, Craniopharyngeoma

Examples of (future) activities

Ana Priego - Update on pituitary module of EuRRECa (5 min)

Carla Scaroni- Mapping the current clinical practice in prevention and treatment of cardiovascular

risk in patients with Cushing's syndrome across center of Endo ERN (5 min)

Johan de Graaf- A proposal to make a survey for craniopharyngioma care (5 min)

Savi Shishkov- Evaluation of exchange program and survey of transitional care in pituitary (5 min)





The Pituitary Tumour Module

Ana Luisa Priego

EuRRECa and EuRR-Bone Fellow

Pituitary Tumour Study Group











Ana Luisa Priego Zur



Pediatric Endocrinologist

EuRRECa and EuRR-Bone Fellow









Pituitary Tumour Study Group

Faisal Ahmed

Natasha Appelman-Dijkstra

Nienke Biermasz

Pia Burman

Luis Castano

Mehul Dattani

Olaf Dekkers

Benedetta Fibbi

Hoong-Wei Gan

Sonia Gaztambide

Harshini Katugampola

Helene Lasolle

Hermann Müller

Alberto Pereira

Ana Luisa Priego Zurita

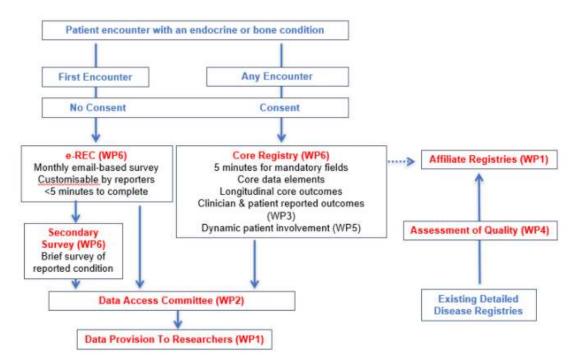
Gerald Raverot

Itxaso Rica

Friso de Vries

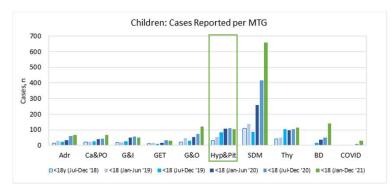
Amir Zamanipoor Najafabadi

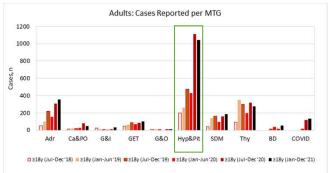
EuRRECa Platforms



https://eurreca.net/

Pituitary Tumours in e-REC

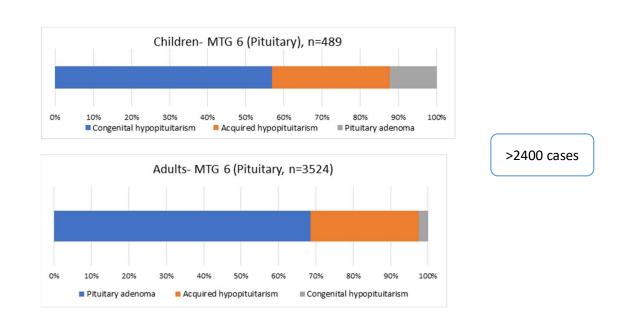




Pituitary Tumours in e-REC

34 centres

Amongst adults, pituitary adenoma is the most reported condition



https://eurreca.files.wordpress.com/2021/10/e-rec-report-october-2021-v1.5.pdf

Developing the Pituitary Tumour Module

Pituitary tumour study group

Objective: to collect longitudinal data on pituitary tumours; identify tumours with aggressive behaviour

Consensus on variables

60 variables

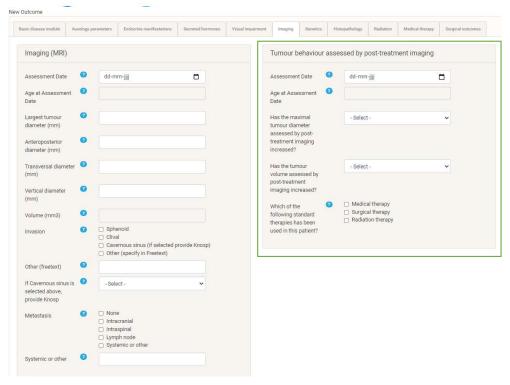
Build Beta version and test by study group

Module live

The Module in the Core Registry

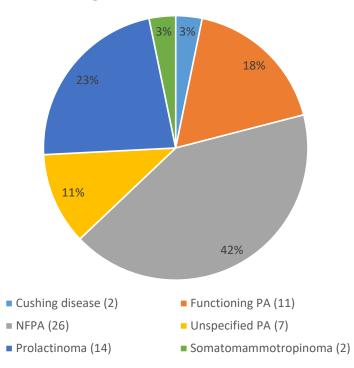


The Module in the Core Registry



Activity in the Module

Cases Registered in the Module (n,67)



To find out more...

Visit our website

https://eurreca.net/

Join our drop in sessions

EuRRECa/EuRR-Bone Platform Drop-in sessions

Drop-in sessions are scheduled twice every month:

- The second Friday in every month at 2pm CET (1pm UK)
- The fourth Wednesday in every month at 4pm CET (3pm UK)

Contact us by email

info@eurreca.net
a.l.priego_zurita@lumc.nl

PROMs are questionnaires used to study how patients feel about their own health status and wellbeing





If you are part of the endocrine or bone community, you can help the registries understand your needs regarding Patient Reported Outcome Measures (PROMs)

Participate in this survey before February 21, 2022



https://eurreca.net/ https://eurr-bone.com/

Patients



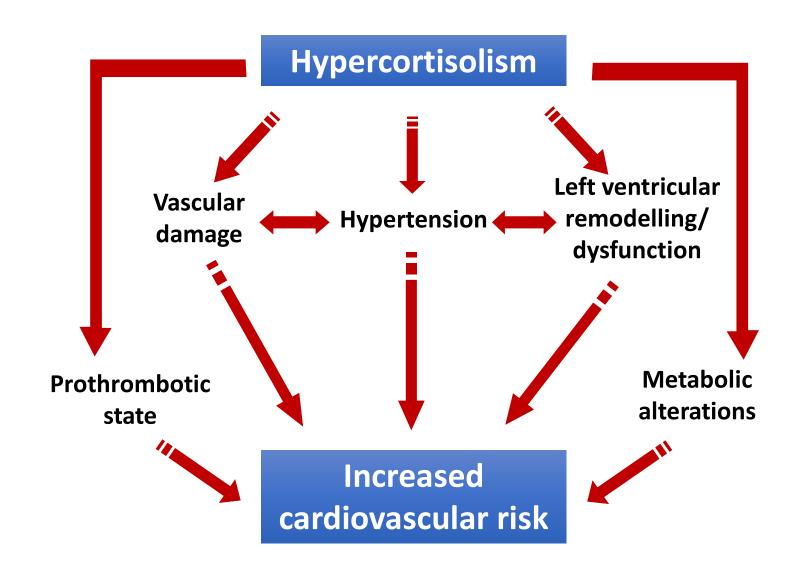
Health care staff

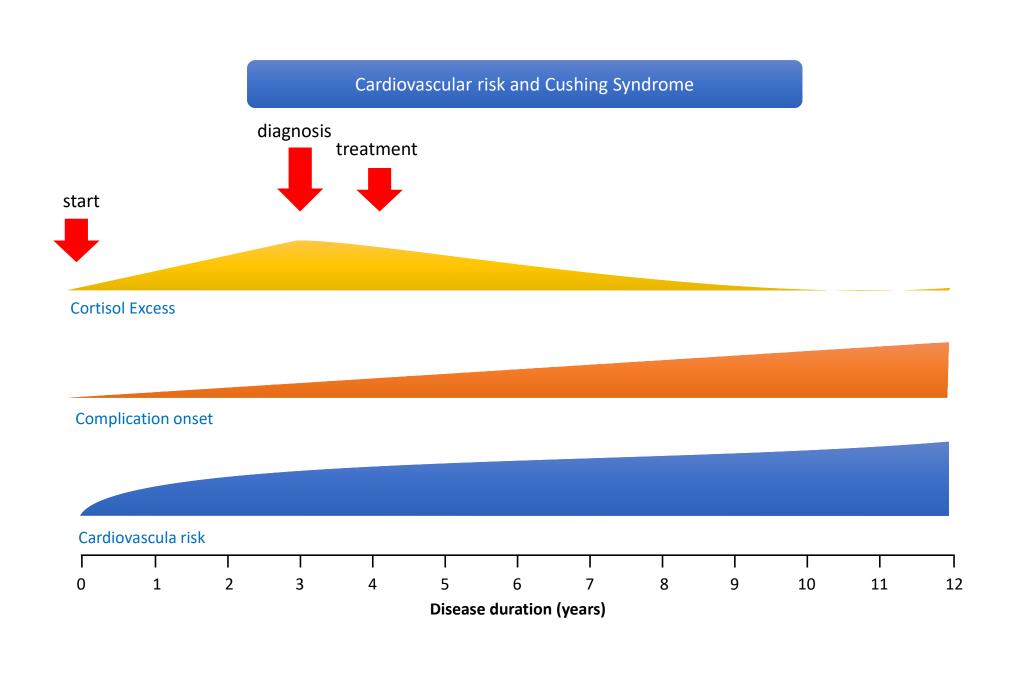






Carla Scaroni





Mortality in active and remission CS

Multisystem Morbidity and Mortality in Cushing's Syndrome: A Cohort Study

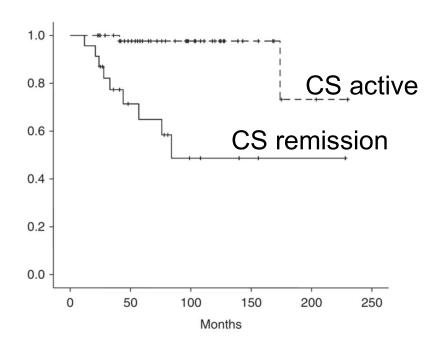
- 343 CS
- 34300 matched controls

Table 2. Rates and Hazard Ratios With 95% Confidence Intervals (95% CI) for the Risk of VTE, AMI, Stroke, Heart Failure, Infections, Ulcers, and Fractures in Patients With CS, Stratified by Follow-up Time

Outcome	Period (y before/ after diagnosis)	Rate (95% CI) per 1000 Person-years in CS Cohort	Rate (95% CI) per 1000 Person-years in Control Cohort	Hazard Ratio (95% CI), Age- and Sex-adjusted Model	Hazard Ratio (95% CI), Fully Adjusted Model ^a
VTE	3 y before 1 y after	4.3 (1.1–9.3) 15.3 (4.9–31.4)	0.5 (0.4-0.7) 0.9 (0.6-1.2)	8.4 (3.0–23.4) 20.6 (7.8–53.9)	6.8 (2.4–19.3) 17.1 (6.4–45.8)
	>1 to 30 y after	1.9 (0.8–3.6)	1.3 (1.2–1.4)	1.6 (0.8–3.4)	1.4 (0.6–2.9)
AMI	3 v before	2.1 (0.2–5.9)	0.9 (0.8-1.2)	2.2 (0.5–8.9)	2.1 (0.5–8.6)
	1 y after	6.1 (0.7-16.9)	1.4 (1.0-1.8)	4.5 (1.1–18.4)	3.5 (0.8-14.7)
	>1 to 30 y after	6.0 (3.8-8.8)	1.9 (1.8-2.1)	3.6 (2.4-5.5)	2.8 (1.8-4.4)
Stroke	3 y before	5.3 (1.7-10.9)	1.1 (0.9-1.3)	5.0 (2.1–12.4)	4.5 (1.8–11.1)
	1 y after	9.1 (1.8-22.0)	1.4 (1.1–1.9)	6.5 (2.0–21.0)	4.3 (1.3–14.2)
union non works	>1 to 30 y after	4.3 (2.5–6.7)	2.7 (2.5–2.8)	1.8 (1.1–3.0)	1.5 (0.9–2.5)
Heart failure	3 y before	4.3 (1.1–9.3)	0.6 (0.5–0.8)	6.8 (2.5–18.6)	6.0 (2.1–17.1)
	1 y after	6.1 (0.7–17.0)	0.9 (0.6–1.3)	6.7 (1.6–28.1)	3.1 (0.7–14.2)
	>1 to 30 y after	1.6 (0.6–3.1) 14.9 (7.9–24.0)	1.9 (1.8–2.0)	1.0 (0.4–2.2)	0.8 (0.3–1.7)
Fractures	3 y before		4.2 (3.8–4.7)	3.4 (2.0-6.0)	3.2 (1.9–5.6) (–8.7)
	Moi	rtality ris	sk incre	ased 3 yrs	-1.6)
Infections	before	e, and 1	→30 ye	ears after (-5.9) .1–31.3) -4.1)
Peptic ulcers	d	iagnosi	s and re	emission	-13.9) -26.3)
	>1 to 30 y after	1.9 (0.8-3.6)	1.6 (1.5-1./)	1.3 (0.6-2.8)	1.1 (0.5–2.2)

Surgical remission of Cushing's syndrome reduces cardiovascular risk

- 51 CS remission (5 years)
- 24 CS with active hypercortisolism
- 60 pituitry incidentaloma (controls)



Survey development

- ✓ Steering Committee, composed of members of the endoERN, develop the study objectives and the statement questions
- ✓ Delphi process via email survey
- ✓ panelists will use Likert- type scale as follows: 1 ("complete disagreement"), 2 ("some disagreement"), 3 ("disagreement"), 4 ("neither disagree- ment nor agreement"), 5 ("agreement"), 6 ("some agree- ment") to 7 ("complete agreement").
- ✓ Key question will cover areas as
 - · Number of patients with Cushing
 - Type if treatment used (surgery, drugs, RT)
 - Definition of remission
 - Diagnosis of CV comorbidities (diabetes, hypertension, dyslipidemia, carotid US and so on) at diagnosis, at remission, and which follow up in active-remission patients? Those under medical treatment?

Proposed questions

- Which tools/score are used in your center to stratify CV risk?
- Do you assess at diagnosis and during follow up ECGs, carotid US, echocardiogram?
- Do you measure blood glucose, lipid profile, high sensitivity C-reactive protein?
- Which cholesterol target do you consider?
- Which blood pressure target do you consider?
- Which fasting glucose / HbA1c levels do you consider?
- Do you consider anti-platelet therapy during active hypercortisolism? And before surgery?
- Patient with medical-controlled hypercortisolism is a high-risk patient?
- Is Cushing at high-risk for CV disease? Do you consider useful a strict glucose-lipid-presure target as in patients with diabetes?
- Early statin treatment?

Dutch Pituitary Foundation

- www.hypofyse.nl
- Chair Dutch Pituitary Foundation (2015), Founded 1996, 2.200+ members, 50+ volunteers
- Mission: Shortening the diagnostic delay by creating awareness
- Full colour patients' magazine 4x per year, Recently updated website with summaries in English, Turkish and Arabic
- Working together will all relevant centres (mostly academic) in the Netherlands
- Webinars on both general as specific subjects; 18th June 2022: Jubilee congress, 700-900 guests expected
- ePAG/Steering Committee member MTG 6 Pituitary and WP3 Research and Science
- Active in EuRRECa, EJP-RD, EMA, Eurordis, Dutch Brain Foundation
- Eupati Fellow
- Main motive: Rare pituitary disorders don't stop at the borders of the Netherlands; since becoming chair of my organisation I've tried to widen the focus both geographically as professionally
- Resulting in: benficial (inter)national contacts, participation in scientific research, strong member growth, attracting volunteers with professional backgrounds





In cooperation with the Wilhelmina Childrens' Hospital Utrecht (dr. Hanneke van Santen)

- Creating a survey targetting patients livings with a craniopharyngeoma diagnoses
 - Children above 12 independently
 - Parents if the child is younger than 12
 - Adults with a childhood diagnoses of a cranio
 - Craniopharyngeomas diagnosed in adults are excluded
- Available languages: Dutch, German, French, English, Italian and Portuguese
- Translations through Deepl.com and corrected by native speakers
- Dissemination through HCPs and patient organisations





Survey contents

General data on the medical condtion and bio-statistical data

Inventory of medical and social care received or wanted to have received

Unmet medical need

Unmet social need

Suggestions from patients on future medical research

Draft finished, final check and ready for translation



DIANA VITALI

ENDO ERN ePAG member since 2017

ePAG Steering Committe MTG6

ePAG Steering Committee WP4

Mother of Carolina, with SOD PLUS

President of SOD ITALIA ONLUS/APS

•Italian Patient Organization for Septo Optic Dysplasia and other Neuroendocrine Disorders

·Board of ePAG Italia

•In normal life Diana works as a sports technician of horse riding and sailing specialized in disabled people.

Current practice in transition of patients with pituitary disease









Savi Shishkov, MD Endocrinologist UMHAT St. Marina Varna Bulgaria

Luigi Tuccillo, MD
University of Naples
Federico II
Italy





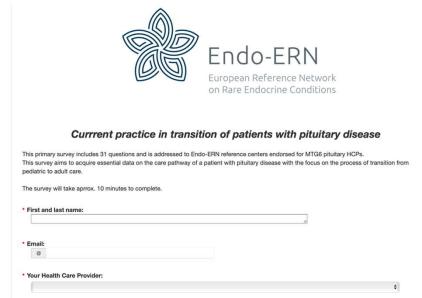




Current practice in transition of patients with pituitary disease

- Response from 30 Reference centers out of 43 endorsed for MTG6
- 69% response rate









Results

- 1. 75% physicians do not evaluate the success of the transition process.
- 81% of all endocrinologists do not evaluate clinical outcomes for their patients.
- 50% of physicians and 50% of RCs do not have an established protocol for transition. None of the currently existing are tailored for pituitary disease.
- PROMs are not regularly used in the transition process.



Future plans

Short term goals:

- Publication of current results
- Systematic review on pituitary transition

Long term goals:

Transition protocol





MTG7 – Rare disorders of sex development and maturation



Luca Persani

Adult co-chair



Olaf Hiort

Pediatric co-chair



Manuela Brösamle *ePAG co-chair*



Arlene Smythe *ePAG co-chair*





Manuela Brösamle

Member of Bord of AGS-Eltern- und Patienteninitiative e.V. in Germany

E-mail: geschaeftsstelle@ags-initiative.de https://www.ags-initiative.de

Mother of an adult daughter (without CAH) and a son at the age of 17 with salt wasting CAH



ERN ePAG of MTG7

Sex development and Maturation

ERN ePAG of WP1

Education & Training

Member of the I-DSD/I-CAH Scientific Panel

I am grateful for the chance to be accepted as an ePag in Endo-ERN. This has not only given me the opportunity to share information with other ePags, but also to expand my knowledge and awareness of other rare diseases and to become actively involved.







www.endo-ern.eu

Arlene Smyth

Executive Officer of Turner Syndrome Support Society [UK]

E-mail:- Turner.syndrome@tss.org.uk https://tss.org.uk/

Mother to an adult daughter with Turner Syndrome [TS] and founding member

With over 30 years experience and expertise

President of Turner Syndrome International Group

Email: TSI2020@tss.org.uk https://tsint.org

ERN ePAG co-Chair of MTG7

Sex development and Maturation

EuRRECa Board member and part of work package 5

(Patients, parents and ethics) & data access committee

I-TS data registry board member

I am proud to be part of The Office for Rare Condition in Glasgow

Board member & chair of our Patient advisory Group speaking to families and helping, supporting them and raising awareness about Rare Conditions.

https://officeforrareconditions.org



Patient information materials

- <u>Update:</u>
- Sex chromosome DSD: Turner syndrome: published since 2021
- 46,XX-DSD / Congenital adrenal hyperplasia (CAH): published since 2021
- 46,XY-DSD: reviewed, sent to Office in Leiden, will be published 02/2022
- Kallmann syndrome and other CHH syndromes: in preparation for review
- Gender Dysphoria: less information, in preparation for review

First Workshop of MTG 7



First Workshop of MTG 7



MTG7 WEBINARS





15/16 Febr. 2022

MTG7 event

ESPE Science Symposium 2021

Congenital adrenal hyperplasia: from molecular medical research to clinical application

Radboudumc, Nijmegen, the Netherlands October 29th – 30th, 2021

Endo-ERN GA2022 Feb 15-16, 2022

MTG7 PUBLICATION ACTIVITIES

MTG7 articles in Endocrine – ENDO-ERN special issue 2021

- 1. Jürgensen M, Rapp M, Döhnert U, Frielitz F, Ahmed F, Cools M, ... Hiort O. Assessing the health-related management of people with differences of sex development. (Endocrine., 2021(2).)
- 2. Persani L, Bonomi M, Cools M, Dattani M, Dunkel L, Gravholt CH, & Juul A. ENDO-ERN expert opinion on the differential diagnosis of pubertal delay. (Endocrine., 2021(2).)
- 3. Johannsen TH, Ljubicic ML, Young J, Trabado S, Petersen JH, Linneberg A, ... Juul A. Serum insulin-like factor 3 quantification by LC–MS/MS in male patients with hypogonadotropic hypogonadism and Klinefelter syndrome. (Endocrine., 2021(2).)

MTG7 PUBLICATION ACTIVITIES

1: Claahsen-van der Grinten HL, Speiser PW, Ahmed SF, Arlt W, Auchus RJ, Falhammar H, Flück CE, Guasti L, Huebner A, Kortmann BBM, Krone N, Merke DP, Miller WL, Nordenström A, Reisch N, Sandberg DE, Stikkelbroeck NMML, Touraine P, Utari A, Wudy SA, White PC. Congenital Adrenal Hyperplasia-Current Insights in Pathophysiology, Diagnostics, and Management. **Endocr Rev. 2022**

2: Lucas-Herald AK, Bryce J, Kyriakou A, Ljubicic ML, Arlt W, Audi L, Balsamo A, Baronio F, Bertelloni S, Bettendorf M, Brooke A, Claahsen van der Grinten HL, Davies JH, Hermann G, de Vries L, Hughes IA, Tadokoro-Cuccaro R, Darendeliler F, Poyrazoglu S, Ellaithi M, Evliyaoglu O, Fica S, Nedelea L, Gawlik A, Globa E, Zelinska N, Guran T, Güven A, Hannema SE, Hiort O, Holterhus PM, Iotova V, Mladenov V, Jain V, Sharma R, Jennane F, Johnston C, Guerra Junior G, Konrad D, Gaisl O, Krone N, Krone R, Lachlan K, Li D, Lichiardopol C, Lisa L, Markosyan R, Mazen I, Mohnike K, Niedziela M, Nordenstrom A, Rey R, Skaeil M, Tack LJW, Tomlinson J, Weintrob N, Cools M, Ahmed SF. Gonadectomy in conditions affecting sex development: a registry-based cohort study. **Eur J Endocrinol. 2021** 3: Ali SR, Bryce J, Haghpanahan H, Lewsey JD, Tan LE, Atapattu N, Birkebaek NH, Blankenstein O, Neumann U, Balsamo A, Ortolano R, Bonfig W, Claahsen-van der Grinten HL, Cools M, Costa EC, Darendeliler F, Poyrazoglu S, Elsedfy H, Finken MJJ, Fluck CE, Gevers E, Korbonits M, Guaragna-Filho G, Guran T, Guven A, Hannema SE, Higham C, Hughes IA, Tadokoro-Cuccaro R, Thankamony A, Iotova V, Krone NP, Krone R, Lichiardopol C, Luczay A, Mendonca BB, Bachega TASS, Miranda MC, Milenkovic T, Mohnike K, Nordenstrom A, Einaudi S, van der Kamp H, Vieites A, de Vries L, Ross RJM, Ahmed SF. Real-World Estimates of Adrenal Insufficiency-Related Adverse Events in Children With Congenital Adrenal Hyperplasia. **J Clin Endocrinol Metab. 2021**

4. Galazzi E, Improda N, Cerbone M, Soranna D, Moro M, Fatti LM, Zambon A, Bonomi M, Salerno M, Dattani M, Persani L. Clinical benefits of sex steroids given as a priming prior to GH provocative test or as a growth-promoting therapy in peripubertal growth delays: Results of a retrospective study among ENDO-ERN centres. Clin Endocrinol (Oxf). 2021

5: Eggermann T, Elbracht M, Kurth I, Juul A, Johannsen TH, Netchine I, Mastorakos G, Johannsson G, Musholt TJ, Zenker M, Prawitt D, Pereira AM, Hiort O; European Reference Network on Rare Endocrine Conditions (ENDO-ERN). Genetic testing in inherited endocrine disorders: joint position paper of the European reference network on rare endocrine conditions (Endo-ERN). **Orphanet J Rare Dis. 2020**

15/16 Febr. 2022

MTG7 PUBLICATION ACTIVITIES

6: van der Straaten S, Springer A, Zecic A, Hebenstreit D, Tonnhofer U, Gawlik A, Baumert M, Szeliga K, Debulpaep S, Desloovere A, Tack L, Smets K, Wasniewska M, Corica D, Calafiore M, Ljubicic ML, Busch AS, Juul A, Nordenström A, Sigurdsson J, Flück CE, Haamberg T, Graf S, Hannema SE, Wolffenbuttel KP, Hiort O, Ahmed SF, Cools M. The External Genitalia Score (EGS): A European Multicenter Validation Study. J Clin Endocrinol Metab. 2020

7. Ali SR, Bryce J, Tan LE, Hiort O, Pereira AM, van den Akker ELT, Appelman-Dijkstra NM, Bertherat J, Cools M, Dekkers OM, Kodra Y, Persani L, Smyth A Smythe C, Taruscio D, Ahmed SF. The EuRRECa Project as a Model for Data Access and Governance Policies for Rare Disease Registries That Collect Clinical Outcomes. Int J Environ Res Public Health. 2020

8: Flück C, Nordenström A, Ahmed SF, Ali SR, Berra M, Hall J, Köhler B, Pasterski V, Robeva R, Schweizer K, Springer A, Westerveld P, Hiort O, Cools M. Standardised data collection for clinical follow-up and assessment of outcomes in differences of sex development (DSD): recommendations from the COST action DSDnet. Eur J Endocrinol. 2019

9: Hiort O, Cools M, Springer A, McElreavey K, Greenfield A, Wudy SA, Kulle A, Ahmed SF, Dessens A, Balsamo A, Maghnie M, Bonomi M, Dattani M, Persani L, Audi L; COST Actions DSDnet and GnRH Network as well as the European Reference Network for Rare Endocrine Conditions (Endo–ERN). Addressing gaps in care of people with conditions affecting sex development and maturation. **Nat Rev Endocrinol. 2019**

10: Ali SR, Bryce J, Cools M, Korbonits M, Beun JG, Taruscio D, Danne T, Dattani M, Dekkers OM, Linglart A, Netchine I, Nordenstrom A, Patocs A, Persani L, Reisch N, Smyth A, Sumnik Z, Visser WE, Hiort O, Pereira AM, Ahmed SF. The current landscape of European registries for rare endocrine conditions. **Eur J Endocrinol. 2019**

11. Tack LJW, Maris E, Looijenga LHJ, Hannema SE, Audi L, Köhler B, Holterhus PM, Riedl S, Wisniewski A, Flück CE, Davies JH, T'Sjoen G, Lucas-Herald AK, Evliyaoglu O, Krone N, Iotova V, Marginean O, Balsamo A, Verkauskas G, Weintrob N, Ellaithi M, Nordenström A, Verrijn Stuart A, Kluivers KB, Wolffenbuttel KP, Ahmed SF, Cools M. Management of Gonads in Adults with Androgen Insensitivity: An International Survey. Horm Res Paediatr. 2018
12: Cools M, Nordenström A, Robeva R, Hall J, Westerveld P, Flück C, Köhler B, Berra M, Springer A, Schweizer K, Pasterski V; COST Action BM1303 working group1. Caring for individuals with a difference of sex development (DSD): a Consensus Statement. Nat Rev Endocrinol. 2018

MTG7 current and future PUBLICATION ACTIVITIES

ENDO-ERN/ESE/ESPE Guidelines on Sex Hormone Replacement submitted to Eur J Endocrinol (end of 2021) with contribution by several MTG7 experts!

ENDOCRINE CONNECTION ENDO-ERN special Issue 2022

Variable genetic approaches to the diagnosis of DSD and CHH across Europe (results of an ENDO-ERN survey among ENDO-ERN centers): 16 centers form Belgium, Cyprus, Denmark, Germany, Italy, Netherlands, Slovenija so far gave feedback and data; we will circulate again the survey @old/new members

Long term outcomes of CAH Patients (focusing on bone, fertility or cardiovascular outcomes in male and female patients) (topic in potential sharing with MTG1-Adrenal)

MTG7 current and future ACTIVITIES

- Survey on transgender care across Europe (M Cools/G T'sjoen)
- Launched project on the LC/MS determination of INSL3 in DSD together with WP3 (A Juul)
- Inclusion of Primary Ovarian Insufficiency (idiopathic POI <25 yrs of age) among the rare diseases covered by ENDO-ERN and defintion of the specific criteria (MDTs, number of cases, etc)
- 15-20 MTG7 CPMS sessions, so far: but there is need to stimulate the HCPs to create/ join a CPMS meeting: DG Health during 2022 are offering some workshops for our team and members that are mainly aimed at better understanding your environment, the "real clinical world" in which you manage rare disease patients. Those workshops will be ERN-specific and aimed to tackle ERNs specific needs and update the CPMS. They wish to tackle here some technical barriers to using CPMS in the HCPs....... Please indicate if you are interested to participate in these workshops by replying to this email by 21st February.
- Many proposals for webinars, in particular several on CAH (proposal of joint event with MTG1)
- Effort to be done for the organization of clinical trials

15/16 Febr. 2022

International ePAG Collaboration on CAH

- Initiators: Manuela Brösamle (Germany), Marika Mayerdorfer-Muhr (Austria)
- First International Kickoff Meeting:
- 29.01.2022: 12 countries (Germany, Austria, UK, USA, Canada, Zimbabwe, Denmark, Finland, Netherlands, Spain, Italy, Bulgaria): 26 participants
- 12.02.2022: 9 countries (Germany, Austria, Switzerland, France, Australia, Indonesia, India, Vietnam, Philippines): 19 participants, IFCAH, CLAN





15/16 Febr. 2022

International ePAG Collaboration on CAH

• AIM/Main topics (result of the questionnaire and Kickoff):

- Establish an international CAH Community/ Improve the life of CAH patients
- Surgery, Classification of CAH/DSD/Intersex, Standard of Care/Best Practice Sharing/Research, International Contact Network, Education
- The theme classification DSD is particularly significant in the USA and Western/Southern Europe and shows how important it was to set up the working group in MTG 7 on this topic.

MTG7 subgroup meeting: re-defining DSD and organising of DSD care

- Participants:
- Olaf Hiort, Luca Persani, Hedi Claahsen, Arlene Smith, Stefan Riedl, M. Brösamle
- Agenda:
- Classification DSD: Is there a need to re-define DSD terminology?
- The position of CAH within the spectrum of DSD
- Development of Quality standards of care
- Condition specific quality indicators

MTG7 subgroup meeting: re-defining DSD and organising of DSD care

- Plan
- To work out new classification system based on proposal Stefan Riedl
- To perform a digital survey among European DSD related patient organizations about their opinion about the current DSD classification
- To define condition specific quality indicators for all DSD related conditions, financial support to be clarified
- Proposal to discuss the topic during the I-DSD meeting in Bern
- Next meeting of the subgroup: March 2nd, 2.30 CET

MTG7 current and future ACTIVITIES









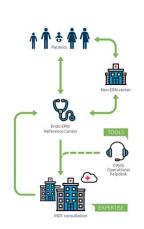


MTG7 current and future ACTIVITIES





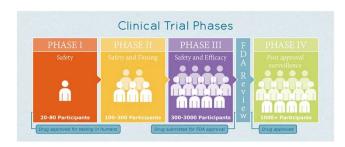














MTG8 Thyroid Group



Juliane Léger (ped endo)



Edward Visser (adult endo)



Beate Bartès (ePAG)







Endo-ERN

European Reference Network on Rare Endocrine Conditions

Subtheme 1 Thyroid hormone signalling disorders

Subtheme 2
Congenital hypothyroidism & hyperthyroidism

Subtheme 3 Thyroid cancer





2021

New in subtheme 2

Pediatric hyperthyroidism

Webinars

Jolante Krajewska (cancer) Erik Verburg (radioactive iodine)

Registry: disease specific registries.

MCT8 deficiency. RTHa, RTHb: active discussions to get started

Publications

1- Ferdy van Geest et al. Long-term efficacy of T3 analogue Triac in children and adults with MCT8 deficiency: a real-life retrospective cohort study. JCEM 2021 acknowledgements: the centers in Rotterdam, Bucharest, Paris, and Angers are part of the Endo-ERN. The center in Rome is a HCP member of the ERN for Rare Neurological Disorders (ERN RND) and the center in Naples is part of the ERN ITHACA.

2- Van Trotsenburg et al. Thyroid 2021; consensus guideline on congenital hypothyroidism

CPMS: we are doing bad



2021



Project: Congenital hypothyroidism: Educational material for patients/families

We collected links and brochures from various patient associations:

Denmark, France, Italy, Spain, United Kingdom, Canada.

Some associations have booklets and films for children, others have leaflets for parents, or dedicated websites.

How to continue in 2022?

>> We must decide on the format, on the style, compare and harmonize the existing texts with the content of the recently published 2020-2021 Consensus Guidelines Update for congenital hypothyroidism...

https://pubmed.ncbi.nlm.nih.gov/33272083/

>> How? Team? Who?

2021/2022

Ongoing interaction Eurordis – ERNs (ePAGs)

PaedCan, EURACAN, EuroBloodNet, GENTURIS and Endo-ERN



EURACAN endocrine domain leader (G6)

Robin Peeters

>> opportunities for interaction on thyroid cancer

2022

CPMS ideas to improve?



New guidelines in preparation:

Diagnosis and treatment of *NKX2-1*-related disorder . Collaboration ERN-RND (neuro), ENDO-ERN, ERN-LUNG, ERN-GENTURIS (genetic)

Webinars: Luca Persani (RTH vs TSHoma)
(we will proceed with the shortlist arranged before)

Publications 2022

1- Mooij C et al. Eur Thyroid J 2022 European Thyroid Association for the management of pediatric Graves'disease: ENDO-ERN HCP members from the Netherlands (Amsterdam, Rotterdam), Paris (France) and members from UK, Germany.

Guidelines for Congenital Hypothyroidism, published in March 2021: "Congenital Hypothyroidism: A 2020–2021 Consensus Guidelines Update—An ENDO-European Reference Network Initiative Endorsed by the European Society for Pediatric Endocrinology and the European Society for Endocrinology"

https://www.liebertpub.com/doi/10.1089/thy.2020.0333

These guidelines are for medical professionals. The MTG8 wants to issue updated information material for parents.

We asked Endo-ERN members and various thyroid associations to send us the educational material they already have.

Italy: booklet for families received from Luisa de Sanctis : Opuscolo Ipotiroidismo congenito.pdf

Luca Persani sent some Italian links:

https://www.iss.it/documents/20126/0/lodio+e+Salute+web.pdf/f485018e-5f6a-e450-3de4-28c79324a491?t=1582211499025

https://www.iss.it/registro-nazionale-ipotiroidei-congeniti

https://www.auxologico.it/centro-tiroide#description

https://www.capeitalia.org/chi-2

The **British** Thyroid Foundation has 2 leaflets about congenital hypo and a film for children:

https://www.btf-thyroid.org/congenital-hypothyroidism

https://www.btf-thyroid.org/your-thyroid-broke-but-we-can-fix-it

The Thyroid Foundation of **Canada** has a section "neonatal hypothyroidism" in their general information on hypothyroidism (but no special educational material): https://thyroid.ca/resource-material/information-on-thyroid-disease/hypothyroidism/

The Danish thyroid association has made a leaflet for parents: STOFSKIFTEFORENINGEN HAEFTE BORN LOW.pdf

Spain: Diego Yeste sent a guide on congenital hypo for families in Spanish (and proposes to translate it to English if necessary): guia-hipo-ESP.pdf

In **France**, there is a guide (AFDPHE) on "how to raise a child with congenital hypo" (in French): http://www.tousalecole.fr/sites/default/files/medias/integrascol/documents/hypothyroidie AFDPHE.pdf

Some years ago, during the International Thyroid Awareness Week in May, Merck, together with the Thyroid Federation International, elaborated a video and booklet for children, with "hypo and hyper butterflies": https://youtu.be/6F7yWltmv3Y There is also a brochure for parents, and a quiz on thyroid disorders in children: https://www.thyroidaware.com/en/forparents.html



Question: How can we translate this material into an informative, up-to-date, official European "guideline for patients & parents"? Who can help?