BHS meeting RBC committee

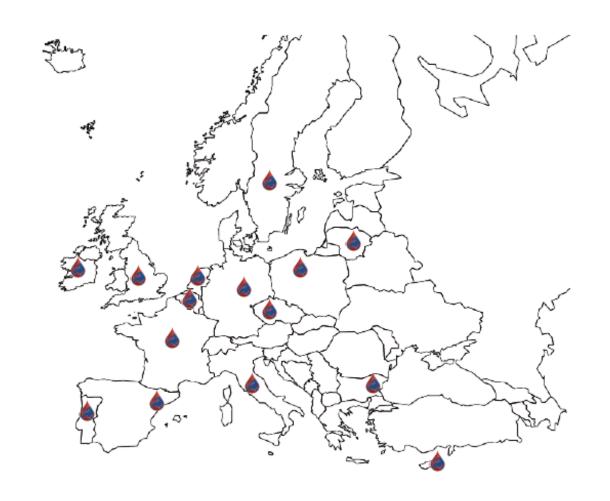
October 27, 2016

Agenda

- SCD registry : follow-up (A. Ferster)
- EuroBloodNet : follow-up (B. Gulbis)
- Telemedicine: follow-up (B. Gulbis)
- Ektacytometry: clinical experience (E. Lazarova)
- Empirical antibiotic therapy in sickle cell patients (MA Azerad)
- Clinical Case (A. Ferster)
- Sickle cell meeting, March 9 2017 (A. Ferster)
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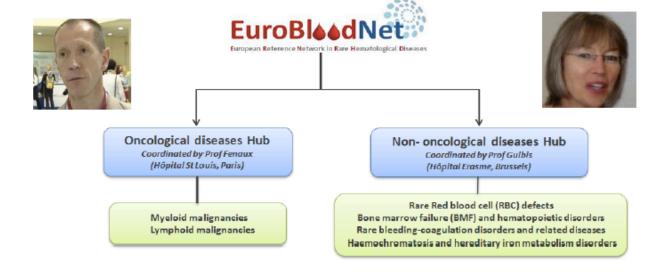
EuroBloodNet

Country	nº HCP
Belgium	5
Bulgaria	2
Cyprus	1
Czech Republic	1
Germany	4
Spain	1
France	12
Ireland	1
Italy	21
Lithuania	1
The Netherlands	6
Poland	1
Portugal	3
Sweden	1
United Kingdom	6
Members	66

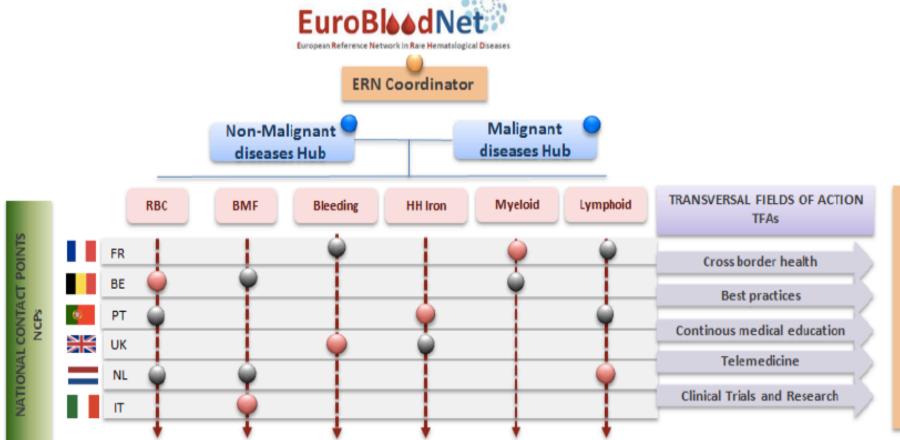


EuroBloodNet in Belgium

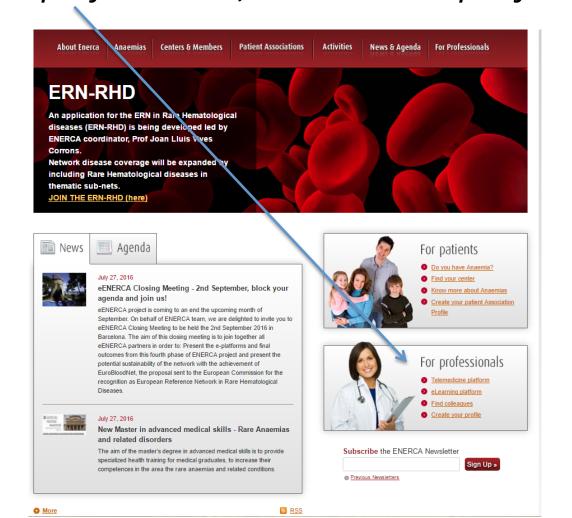
2016/606	Centre Hospitalier Universitaire de Liège	HP	Belgium
2016/607	Cliniques universitaires de Bruxelles - Hôpital Erasme	HP	Belgium
2016/608	Cliniques universitaires Saint-Luc - Haemophilia Clinc	HP	Belgium YES
2016/609	Institut Jules Bordet	HP	Belgium
2016/610	UZ Leuven	HP	Belgium YES



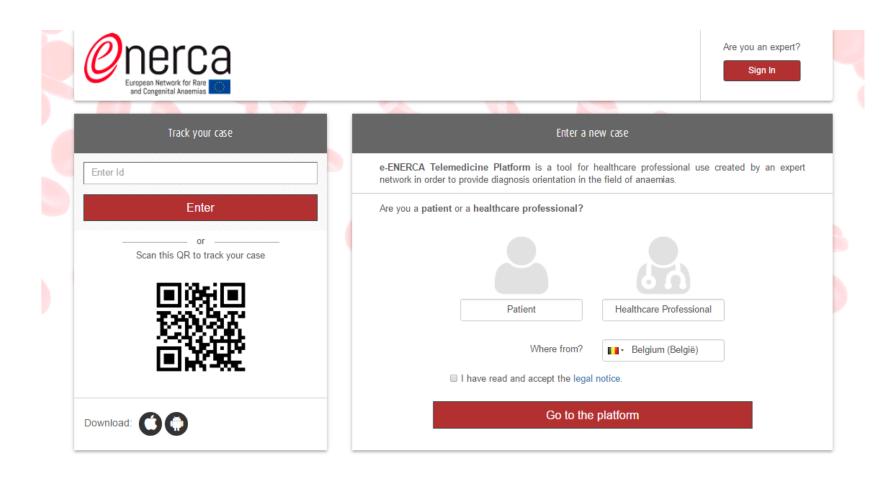
- EuroBloodNet coordination is rotational in equal periods of time between the 2 oncological and non-oncological hubs
 - ➤ Prof Pierre Fenaux was appointed to coordinate the oncological diseases hub and EuroBloodNet for submission of the proposal and to coordinate the first 30 months of EuroBloodNet running time
 - ➤ Prof Béatrice Gulbis (ERASME, Belgium), member of the Executive committee of ENERCA since 2002 was appointed to be the coordinator of EuroBloodNet for the second 30 months of EuroBloodNet running time, and the coordinator of the non-oncological diseases hub
- This scheme has been endorsed by EHA and patients organizations



Access to the platform via the website ENERCA www.enerca.org
For professionals, telemedicine platform



Identification



Print a repor



Diagnostic

- Expected diagnosis: thalassaemia and Iron defisciency
- **Diagnostic orientation:** Membrane disorders and/or enzymes defects and/or Hb variants, iron deficiency not excluded, but rare microcytic anaemias are not excluded.

This doesn't exclude the presence of another RBC pathology.

If clinical or other biological data is in favour of a haemoglobinopathy, separation of the haemoglobin fractions should be performed.

Disclaimer: All rare and congenital "RBC" disorders are not considered in the diagnostic trees

Patient Data

• Patient age: 18 years

Gender: F

Age at first clinical manifestation: Unknown

Occupation: administrator

• RBC transfusion the last three months: Yes

• Blood transfusion dependent: No

Due to interferences, RBC transfusion makes difficult or impossible blood data interpretation. If available, enter data performed just before RBC transfusion. If unfortunately those data are not available, please enter those in your possession.

Blood transfusion previously: Yes

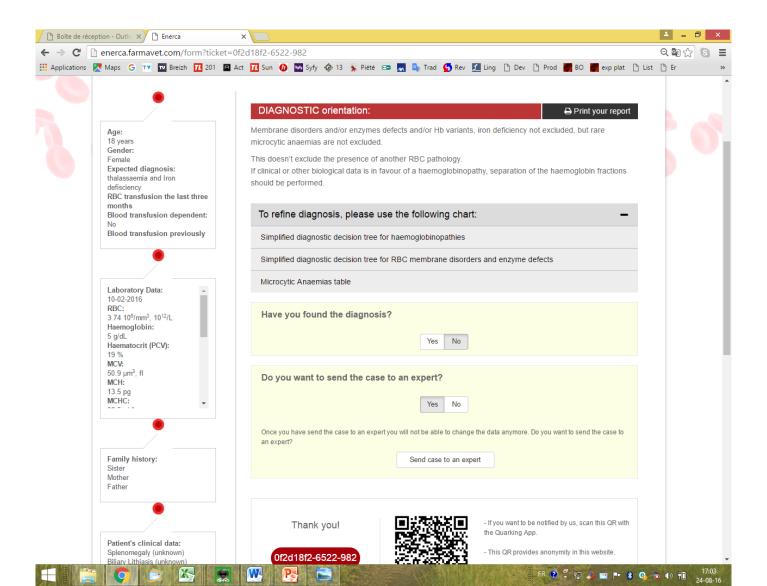
Transfusion program (regular): No

Print a report

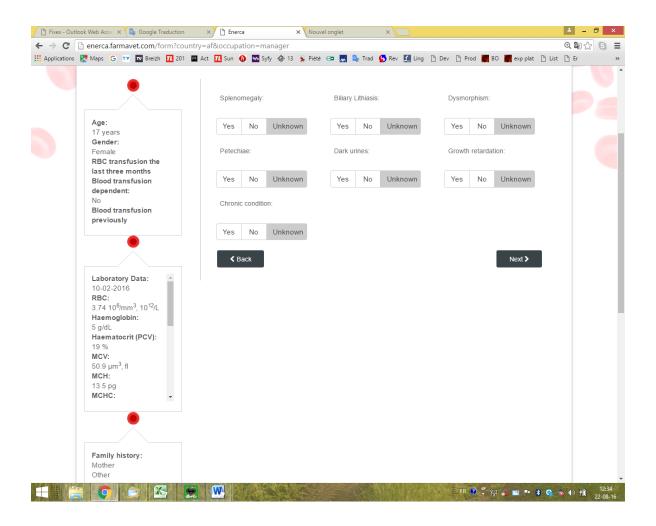
	Laborato	ory Data	
Date of analysis:	5 Feb 2016		
			International Unit
RBC count:	3.74	10 ⁶ /mm³, 10 ¹² /L	1012/L
Haemoglobin:	5.00	g/dL	g/L
Haematocrit:	19.0	%	L/L
MCV:	50.9	μm³, fl	fl
MCH:	13.5	pg	pg
MCHC:	26.5	g/dL	g/L
Reticulocytes:	19.0	/1000 RBC	-
Absolute reticulocyte count:	49.0	10³/mm³, 10°/L	10°/L
Reticulocyte Production Index:	0.8	-	%
WBC count:	11.0	10³/mm³, 10°/L	10°/L
Platelet count:	211	10³/mm³, 10°/L	10°/L
CRP:	-	-	mg/L
Vitamin B12:	163	ng/L, pg/mL	pmol/L
Folate:	6.10	ng/mL, μg/L	μg/L
Glomerular Filtration Rate (GFR):	-	-	mL/min/1.73m ²
Haptoglobin:	90.0	mg/dL	g/L
Bilirubin:	0.48		μmol/L
Ferritin:	20.0	ng/mL, μg/L	μg/L

From telemedicine to tele-expertise

Diagnostic orientation



From telemedicine to tele-expertise



Summary and advertising: a flyer





Diagnosis of rare anaemias: Opening of the Telemedicine platform **MAY 2016**

Telemedicine platform for diagnosis of rare anaemias

The Telemedicine platform, led by Hôpital Erasme - Université Libre de Bruxelles and coordinated by Prof. Béatrice Gulbis, Dr. Françoise Neumann, Dr. Maria del Mar Mañu Pereira and Prof. Joan-Lluis Vives Corrons - ENERCA

dedicated to the diagnosis of rare anaemias. algorithms for efficient diagnosis.

The European Commission through its Executive Agency for Health and Consumers cofunds ENEACH. The platform represents an aid to the remote diagnosts of rare anemias and addice to all European health professional. Patients can, however, connect for a review of their disease, its monking or treatment through links to carefully chosen and relevant documentation.

Benefits for applicants introduced data that identifies the patient or the complex healthcare professional via the clinical case and introduced. Professional via the clinical case can be sent, if possible, introduced, introduced introduced. Introduced, introduced, one should also introduced on the country of origin on the triangle of the platform in the case to a panel of experts through the case to a panel of experts the case to a panel of experts through the case to a panel of experts the case to a panel of experts through the case to a panel of experts the case to The European Commission through its

documentation. Despite national expertise, for many patients:

With anamia it is not uncommon to be insulfacious of the platform; it is user midiagnosed or to lack of a diagnosis. The adduce costs while increasing efficiency. The applicant submits patient data (age, sax, telemedicine platform facilitates diagnosis; that contentions are represented to the platform of the properties of the orientation away from complex cases through a virtual consultation of international experts on rare anaemias.

Objectives

experts in rare anaemias in order to decrease the time needed for its achievement, resolve complex cases and reduce the number of patients remaining undiagnosed.

Promote inter-professional consultation and sharing of knowledge through the exchange of clinical information resulting in improvement of patient care.

ENERCA, European Network for Rare and Foster research and education by providing the Identification Congenital Anaemias, has opened a medical community with a tool that allows The applicant must identify himself/herself as a telemedicine and tele-expertise e-platform concentrate cases, pooling data, and establish patient or as a professional health care. Some

Access to the plateform The applicant accesses the platform via the

website ENERCA: www.enerca.org, Facilitate access to diagnosis advice given by For professionals, telemedicine platform

features (ask for an expert) are reserved for

then algorithms operate in background and are used to provide a working diagnosis and if necessary to request additional analyses.

Decision trees

If a group of possible diagnoses is proposed, the platform displays decision trees related to them. There are 4 diagnostic groups offered: erythrocyte membrane diseases and enzyme deficiencies, congenital dyserythropoietic anaemias, haemoglobinopathies and rare microcytic anaemias.

Summary and advertising: a flyer

DIAGNOSIS OF RARE ANAEMIAS: OPENING OF THE TELEMEDICINE PLATFORM MAY 2016

These decision trees include links to the The applicant is a patient aetiology, course, diagnosis, treatment and Although the platform is dedicated to health ENERCA is a network of European experts. The monitoring of various anaemias.

Clinical case identification

identification number so that the applicant can in rare anaemias. return to the platform and follow each of his/her clinical cases

Report

the subject of a report and can be edited. Decision trees can also be edited.

Seek the advice of an expert This part is still under development, but should

All laboratory data submitted by the applicant be implemented in September.

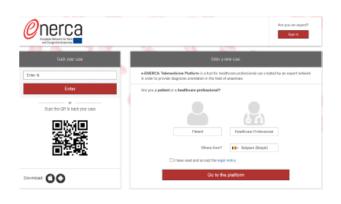
units for educational purposes), diagnostic laboratory data have been completed but the that is accessible to all - even if it is primarily orientation, requested additional analyses, applicant has been unable to find a diagnosis, aimed at health care professionals. It facilitates diagnosis eventually found by the applicant are being a professional health care, he/she ask for remote diagnosis orientation of complex cases the advice of an expert in rare anaemias.

care professionals, a patient can connect to the applicant appealed to them to make the platform, introduce his/her data, be offered a diagnosis of a rare anaemia. The expert having diagnosis, and print the report. The patient can assumed a case may, in view to approach the then contacts his doctor, submit his report and final diagnosis, will request additional results of ask him kindly to log on to the platform and to several analyses to the applicant, would ask for Each clinical case is associated with an eventually ask for help to the European experts the advice of his/her colleagues, or would organize a panel of experts.

All contacts are made through the platform.

Conclusion

The telemedicine platform for the diagnosis of with the introduced units (but also international When a diagnosis has been proposed and all rare anaemias is an effective and innovative tool by building a bridge among health professionals in distant locations and experts in rare anaemias.



Future

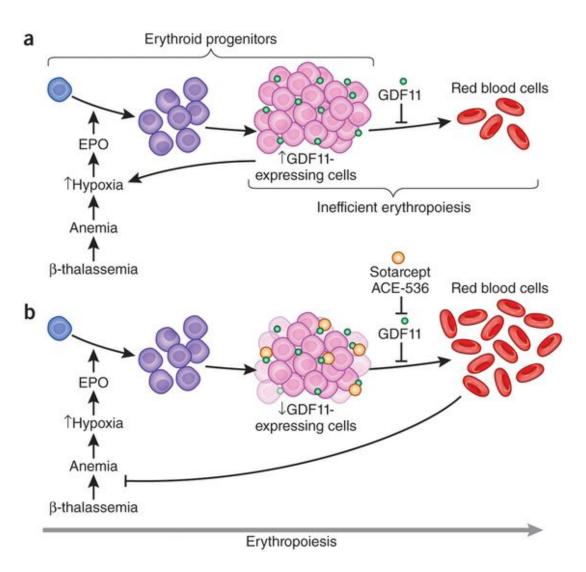
- To keep the platorm alive
- Involvement of the network partners as experts

Agenda

- SCD registry : follow-up (A. Ferster)
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An Efficacy and Safety Study of Luspatercept (ACE-536) Versus Placebo in Adults Who Require Regular Red Blood Cell Transfusions Due to Beta (β) Thalassemia (BELIEVE)

 Luspatercept (ACE-536) is an investigational protein therapeutic that increases red blood cell (RBC) levels by targeting molecules in the TGF-β superfamily. Acceleron and Celgene are developing luspatercept to treat anemia in patients with rare blood disorders, including myelodysplastic syndromes (MDS) and betathalassemia.



An Efficacy and Safety Study of Luspatercept (ACE-536) Versus Placebo in Adults Who Require Regular Red Blood Cell Transfusions Due to Beta (β) Thalassemia (BELIEVE)

Phase 3, double-blind, randomized, placebo-controlled, multicenter study to determine the efficacy and safety of luspatercept (ACE-536) plus Best supportive care (BSC) versus placebo plus BSC in adults who require regular red blood cell transfusion due to (β) -thalassemia.

The study is divided into the Screening/Run-in Period, double-blind Treatment Period, double-blind Long-term Treatment Period, and Post-treatment Follow-up Period.

Eligibility: 18 Years and older

• Study Type: Interventional

Study Design: Allocation: Randomized

Endpoint Classification: Safety/Efficacy Study

• Intervention Model: Parallel Assignment

Masking: Double Blind (Subject, Caregiver, Investigator, Outcomes)

Assessor)

• Primary Purpose: Treatment

https://clinicaltrials.gov/show/NCT02604433

Clinical Trial: BELIEVE

- Primary Outcome Measures:
 - Proportion of subjects with haematological improvement from Week 13 to Week 24 compared to 12-week prior to randomization [Time Frame: Up to approximately week 24
 - Hematological improvement(HI) is defined as ≥ 33% reduction from baseline in red blood cell count (RBC) transfusion burden with a reduction of at least 2 units from Week 13 to Week 24 compared to the 12-week. Reported as the Number of RBC units transfused from Week 13 to Week 24, and in the 12 weeks prior to randomization

Next BHS GAM

Dear Presidents of BHS Sub committees,

Anne and I wanted to present ourself as the new BHS councilors for the contact between the BHS sub committees and the BHS board.

Next GAM: session dedicated to the the activities of each committees When: Thurday 9th of February from 15h to 18h.

Short presentation (15 minutes – 3 minutes discussion)

- Activities of your sub group
- Your projects for the futur
- The way to promote interactions between BHS board and BHS sub committees.

Thank you very much for your contribution, Cécile Springael -Anne Deweweire







Sickle Cell Disease and RBC Disorders Annual Meeting

9 mars 2017 (9h - 17h)

Auditoire PP Lambert, CHU Brugmann

4, Place Van Gehuchten

1020 Brussels, BELGIUM

Program 9/03/2017

8h45	Introduction (Alina Ferster, HUDERF and Béatrice Gulbis, LHUB-ULB)
9h30	Deep sedation for cerebral MRI in young children with SCD: is it safe? (Cécile Callewaert, HUDERF, Brussels)
9h30	Is transition from pediatric to adult care associated with an increased rate of complications in SCD patients? (Tracy Vandergraesen, HUDERF et CHU-Brugmann, Brussels)
10h00	Débit sanguin cérébral par IRM et oxygénation cérébrale par NIRS chez l'enfant drépanocytaire (Suzanne Verlac, Centre Hospitalier Inter régional Créteil, France)
10h30	Coffee Break
11h00	Genotoxicity in SCD patients: Results of the « comete » assay. (Anar Rodrigues, Institut de Pharmacie, ULB)
11h30	A preliminary study of B cells in Sickle Cell Disease (Benoit Vokaer, Hôpital Erasme, Brussels)
12h00	Immune response in Sickle Cell Disease (Carole Nagant et Francis Corazza, LHUB, Brussels)
12h30	Aspects interculturels de la prise en charge de la drépanocytose (Jessica Frippiat, HUDERF, Brussels)

14h00	"Sickle cell disease and coagulation: an update" (Denis Noubouossie, Division of
	Hematology and Oncology, School of Medicine, University of North Carolina)
14h30	Evaluation of psychological disorders in children presenting sickle cell anemia: a preliminary
	analysis (Isabelle Lambotte, HUDERF)
15h00	Telemedecine and rare anemias (Béatrice Gulbis, LHUB)
15h30	Pulmonary function in a cohort of children with SCD (Serima Tebbache et Nicolas Lefèvre,
	HUDERF)
16h00	Cas cliniques/biologiques soumis pour discussion
16h30	Clôture

Belgian Registry

Belgian Registry

- Simplified dataset compared to the first project submitted in 2007
- 2 steps submissions
 - Amendment with change of PI and suppression of the online patients' database (for GP and other professionnals)
 - 2nd amendment with new participating centers
- Grant application (Iris Recherche answer: Q12007)

Belgian	SCD reg	istry
REFERRING PHYSICIAN/ center	Name :	Address: Phone/Fax:
At inclusion in Registry:		
Surname : Patient identification number:		First name:
Birth date ://		
Country of origin :	Mother :	Father :
Sex: Male Female Diagnosis: - SS		
- SC		
Time of diagnosis Neonatal screening Neonatal diagnosis (patient-directed of the control of th	d initiative)	
Previous history at start of FU in a cente None (patient diagnosed Yes Recurrent dac Recurrent AC Stroke of AIT VOC ≥ 2 need Abnormal trait Reguler	at birth) ctylitis (number CS (number) ded hospitalisat	tion

- Pulmonary hypertension (TRV > 2.5 m/sec in children or > 2.7 m/sec in adults) - Pregnancy - Early termination - Fetal death - Live birth (gestational age:weeks) - Kidney disease - Lasertherapy for retinopathy - Osteonecrosis - Surgery - Hip (or other) replacment - Stem cell therapy - Chronic disability - Other: Unknown - Previous treatment: - Antibiotics (ongoing; prophylaxisis) Chronic transflusion program Hydroxyurea Date of start HU://
Annual update of data from birth after neonatal diagnosis and from FU the the center for others) - Last contact:// - Alive - Death (describe cause of death:) - Lost of follow-up - Moved in another center - Moved in another country - Other (explain:)
- Known to have HLA identical sibling
- Patient followed in paediatric ward
- Patient followed in adult ward
Biology (taken at steady-state): - Hb:, (g/dl) - MCV: (fl)

Research team

FERSTER Alina
GULBIS Beatrice

WENDERICKX Bernard (Responsible of the Clinical Research Unit)- HUDERF

LE MARCHAND Bruno (Responsible of the electronic database - HSP)

DEDEKEN Laurence (HUDERF)

LE Phu-Quoc (HUDERF + XL)

EFIRA, André BRUGMANN)

VANDERFAILLIE Anna (St PIERRE)

DEVOS Timothy (Gasthuisberg LEUVEN – A)

LABARQUE Veerle (Gasthuisberg LEUVEN – C)

BRICHARD Bénédicte (Cliniques St LUC)

HEIJMANS Catherine (HUDERF + Jolimont)

PHILIPPET Pierre (CHC)

MAES Philippe (UZA)

BENGHIAT Samentha (ERASME)

DRESSE Marie-Françoise (CITADELLE)

DE WILDE Bram (UZ Ghent)

Belgian Registry: Time Frame

- 1st amendment submission: October 2016
- 2nd: January 2017

- New version of the database: March 2017
- Start of data collection:
 - Prospective data: March 2017
 - Retrospective data: Q4 2017

Clinical case

Your opinion about an mysterious anemia... (1)

- Born in Tchetchenia at term. 2 healthy sibs
- No consanguinity
- Neonatl jaundice (8days phototherpy : ABO incompatibility?)
- Famille d'origine Tchétchène, en Belgique depuis 2004-
- Pallor, weakness and splenomegaly at the age of 4 months (malnutrition?) R/ Vitamines

Your opinion about an mysterious anemia...(2)

- Hospitalisation in Germany at the age of 3
- Diagnosis: ? Hemolytic anemia; Spherocytosis?
 (↓ osm R)
- Growth retardation (weight and height < P3). No cystic fibrosis, gastro-intestinal investigations negative)
- Normal neurological and cognitive development
 In Belgium at 6 y:
- Pallor, jaundice, splenomegaly, etc...

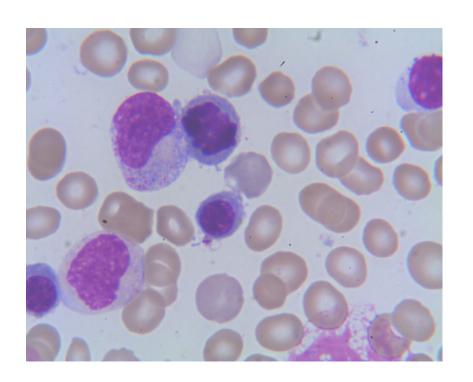
	7 y	10	13
Hb (g/dl)	8,2	8,5	8,4
MCV (fl)	72	75	75
MCH (%)	23	26	24
	Microcytes, anisocytosis, hypochromia		
Plts (10 ^E 3/μl)	157	136	99
WBC(10 ^E 3/μl)	5,27	4,21	4,99
Lymphocytes(10 ^E 3/μl/ μl)	1,35	1,2	0,98
Reticulo (%)	3,8	3,3	3,5
Reticulo (/μl)	129000	131000	120000
Immature reticulocytes	5%		

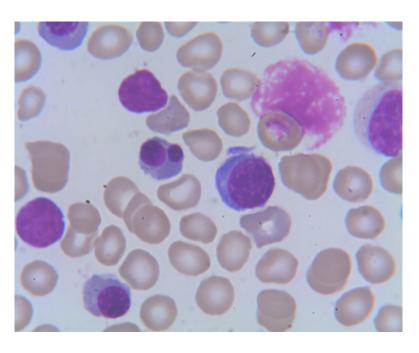
Imprimer ♣	14/09/16 10:38 81112939 Terminé	13/07/16 14:09 81097969 Terminé	09:30	15/04/15 16:26 80973940 Terminé	07/01/15 10:57 80946162 Terminé	15/05/13 10:24 80783209 Terminé	17/04/12 15:20 80682434 Terminé	03/08/11 15:37 80612373 Terminé	09/03/11 13:34 80572186 Terminé	08/09/10 11:54 80520066 Terminé	02/03/10 16:51 80468146 Terminé	10:00	02/02/10 10:07 8046023: Terminé
HEMATOLOGIE													
ANEMIES MICROCYTAIRE ET MACROCYTA	IRE												
Fer [µg/dL] 🏸	71	65			63	71	71	45		85			67
Transferrine [mg/dL]	212	226			222	228	228			210			200
Saturation de la transferrine [%]	24	21			20	22	22			29			24
Ferritine [µg/L]	50	47 ©	52 ©	41	41	35	43	67	68	42	40	64	49
Ac.folique sérique [μg/L]											12		
Vit.B12 [ng/L]		526									672		

ANEMIE HEMOLYTIQUE										
Haptoglobine [mg/dL] 🗡					<^3	9	<^3	6	<^3 @	9 ⊜
Bilirubine totale [mg/dL]	2.4	3.9	2.7	1.8	3.0	2.3	2.0			
Bilirubine directe [mg/dL]			0.4	0.4						
rd [ni/r] 12.	129	127	154	134	160		140 ©			

Your opinion about an mysterious anemia...(3)

- Hemolysis???
- Enzymes and Hb electrophoresis N
- Cryohemolysis N (<10%)
- Ektacytometry:?? EP of RBC membrane proteins: N
- No immune deficiency
- No cardiac or renal abnormality
- No argument for Schwachmann disease, Fanconi, etc...
- Symptomatic biliary lithiasis → cholecystectomy





Your opinion about an mysterious anemia...(4)

Bone marrow in favor of CDA type 2??

 Perls: Iron deficiency??? No change with oral supplementation. Indication for oral treatment???

 Bone biopsy: Erythroid hyperplasia with dysplastic and megaloblastic features

Your opinion about an mysterious anemia...(5)

- Poor growth No puberty (13 y)
- Excellent mental and neurologic status
- 个 splenomegaly
- ↓ platelets

Questions??

- Any suggestion about the diagnosis??
- Iron IV?
- Measurement of splenic/liver Iron (MRI)
- Splenectomy?
- Other? HSCT???

Journal Club

A BMT CTN phase II trial of unrelated donor marrow transplantation for children with severe sickle cell disease

Shalini Shenoy, Mary Eapen, Julie A. Panepinto, Brent R. Logan, Juan Wu, Allistair Abraham, Joel Brochstein, Sonali Chaudhury, Kamar Godder, Ann E. Haight, Kimberly A. Kasow, Kathryn Leung, Martin Andreansky, Monica Bhatia, Jignesh Dalal, Hilary Haines, Jennifer Jaroscak, Hillard M. Lazarus, John E. Levine, Lakshmanan Krishnamurti, David Margolis, Gail C. Megason, Lolie C. Yu, Michael A. Pulsipher, Iris Gersten, Nancy DiFronzo, Mary M. Horowitz, Mark C. Walters and Naynesh Kamani

- MUD 8/8
- 30 children / 29 evaluable
- Median age: 14y
 Median FU: 26 Mo
- Cdt: Alemtuzumab-Flu-Melphalan
- GVH prophylaxis: calcineurine inhibitor + short MTX + methylPDN
- Bone marrow graft: $3.5 \cdot 10^{E} 8 \text{ NC/kg} (1.3 6.8)$
- EFS 1Y and 2Y: 76 and 69%
- OS 1Y and 2Y: 86 and 79%
- 1-Y incidence of cGVHD: 62%
- Main objective: OK >75% EFS but not safe!!

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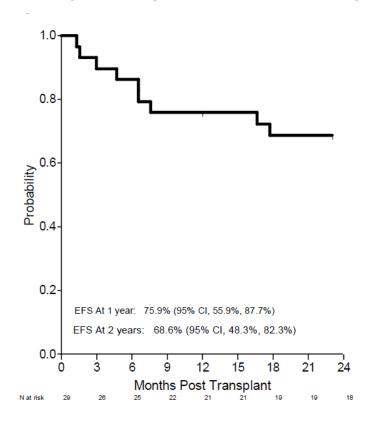


Figure 2A: 100-Day Probability of Acute Grade II-IV Graft-Versus-Host Disease

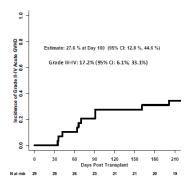
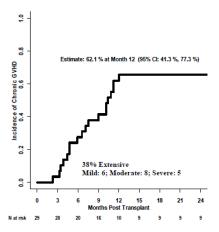


Figure 2B: One-year Probability of Chronic Graft-Versus-Host Diseas





Successful matched sibling donor marrow transplantation following reduced intensity conditioning in children with hemoglobinopathies

2015

Allison A. King, ¹ Naynesh Kamani, ² Nancy Bunin, ³ Indira Sahdev, ⁴ Joel Brochstein, ⁴ Robert J. Hayashi, ¹ Michael Grimley, ⁵ Allistair Abraham, ² Jacqueline Dioguardi, ² Ka Wah Chan, ⁶ Dorothea Douglas, ⁷ Roberta Adams, ⁷ Martin Andreansky, ⁸ Eric Anderson, ⁹ Andrew Gilman, ¹⁰ Sonali Chaudhury, ¹¹ Lolie Yu, ¹² Jignesh Dalal, ¹³ Gregory Hale, ¹⁴ Geoff Cuvelier, ¹⁵ Akshat Jain, ⁴ Jennifer Krajewski, ¹⁶ Alfred Gillio, ¹⁶ Kimberly A. Kasow, ¹⁷ David Delgado, ¹⁸ Eric Hanson, ¹ Lisa Murray, ¹ and Shalini Shenov¹*

- 43 SCD and 9 TM (2003-2014)
- Alemtuzumab-Fludarabine-Melphalan
- Median age: 11y
- Median FU:3.5 y
- OS and EFS: 93 and 90,7% for SCD
- TRM SCD: 5.7% (all teenagers)

associated with subsidence of infectious complications. All patients who engrafted were transfusion independent; no strokes or pulmonary complications of SCD were noted, and pain symptoms subsided within 6 months posttransplant. These findings support using RIC for patients with hemoglobinopathy undergoing matched sibling marrow transplantation (*www.Clinical Trials.gov: NCT00920972, NCT01050855, NCT02435901).

Am. J. Hematol. 90:1093-1098, 2015. © 2015 Wiley Periodicals, Inc.



Successful matched sibling donor marrow transplantation following reduced intensity conditioning in children with hemoglobinopathies



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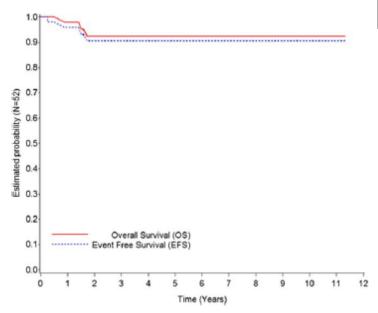


Figure 1. Overall/event-free survival following reduced intensity conditioning and matched sibling donor transplantation for hemoglobinopathy. The solid and interrupted lines represent the estimated probability of overall and event-free survivals, respectively. [Color figure can be viewed in the online issue, which is available at wileyonlinelibrary.com.]

Outcome and chimerism

- Chimerism > 95% in 33 SCD pts at 1y
- 10 mixed chimerism with NED at last FU
- 2 recieved DLI

Titre du graphique

