Newsletter #5 - April 2018 - English version

Digi-NewB

Focus

Discover our new 3-min video on the project

The video gives you in a snapshot the main key project ideas. More can be seen at this link and on Digi-NewB website.

News

Digi-NewB got the green light to go on

All partners took part to the first Review meeting at European Commission DG CNECT premises in Brussels in November 2017, where they met with the three project reviewers.

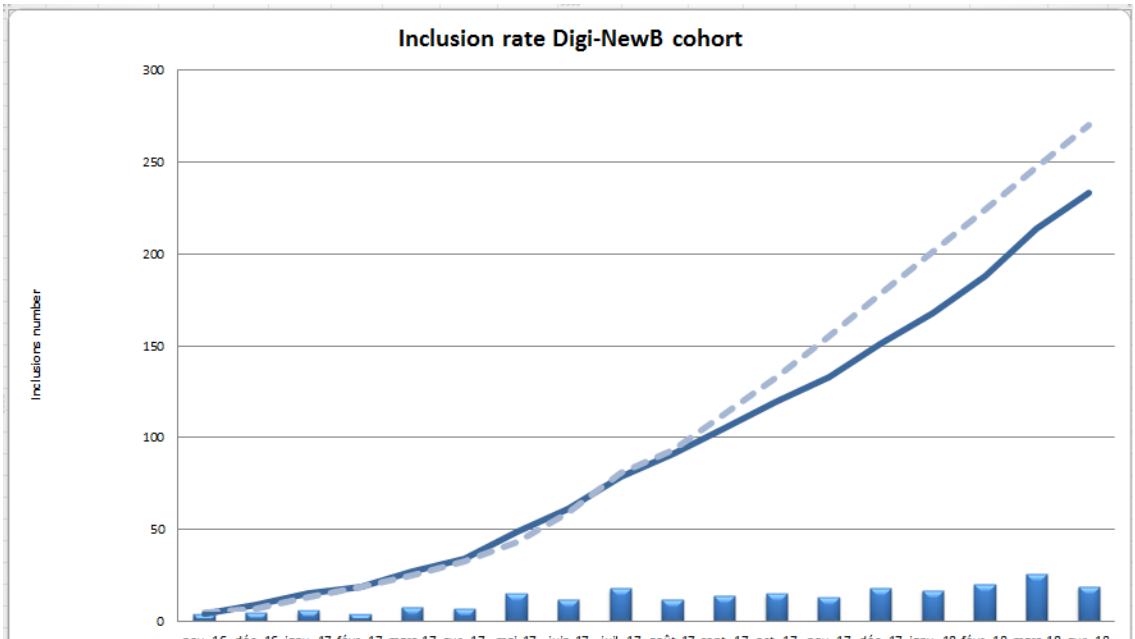
Digi-NewB can now continue until next review meeting in May 2019.

More than 200 inclusions reached

After opening of the last center Poitiers, the clinical study is now reaching a satisfactory pace. The level of 200 inclusions was reached at the beginning of March 2018, to reach 233 inclusions end of April.

- **Nantes** reached **37 inclusions**
- **Brest** reached **28 inclusions**
- **Tours** reached **28 inclusions**
- **Poitiers** started and already reached **7 inclusions**. It is expected to increase the rooms equipment and therefore increase the number of recordings.

Review outcomes led to a refocus of inclusions on continuous recordings for the late onset sepsis detection. Impact on the number of inclusions will be measured in the next months.



	nov.-16	déc.-16	janv.-17	févr.-17	mars-17	avr.-17	mai-17	juin-17	juil.-17	août-17	sept.-17	oct.-17	nov.-17	déc.-17	janv.-18	févr.-18	mars-18	avr.-18
Inclusions nb / month	4	5	6	4	8	7	15	12	18	12	14	15	13	18	17	20	26	19
Total nb (Actual) of inclusions	4	9	15	19	27	34	49	61	79	91	105	120	133	151	168	188	214	233
Expected number	5	7	13	19	25	33	43	59	81	93	113	133	155	178	201	224	247	270

Two questions to David Toohey, Syncrophi Systems Ltd. CEO

What are the motivations of Syncrophi to join such a consortium as Digi-NewB?

protocols and workflow support in hospital point-of-care settings. We have developed the first CE-marked and FDA-cleared Class II medical software system solution to deliver digital vital-sign observation functionality, fully integrated with the medical equipment in use on the ward and also fully integrated with the Hospital Information System elements such as electronic medical record and patient administration system. This supports very complex early-warning-score protocols for both adults and paediatrics and dramatically enhances protocol effectiveness and patient safety by eliminating the vast majority of user errors.

Digi-NewB provided an opportunity to be at the leading edge of development in the Neonatology arena.

What are the challenges for SMEs in H2020 projects, and in particular in Digi-NewB? What is your experience so far?

The first challenge for any SME is to win support for their submission. Once this is achieved then the obvious challenge is to quickly become part of a high-functioning consortium. The keys to this are to (i) establish very clear goals at the outset, (ii) achieve parity-of-esteem among the members, (iii) put in place a workable operational process to ensure effective collaboration and (iv) provide for a highly professional and competent project management office.

I think we can tick those boxes within the Digi-NewB consortium. Our experience so far has been very positive and we remain convinced that Digi-NewB can produce strong evidence of a next-generation care and monitoring protocol and method for application in Neonate ICU settings. It is extremely worthwhile work to be associated with.

One learning from our experience so far is that for advanced, highly specialised projects such as Digi-NewB it is vitally important that any external reviewer selected by the Horizon 2020 program office should be appropriately qualified and knowledgeable. Excellent research work can be enhanced by credible, informed critique, and we would welcome such a challenge at some future point.

Feedback on 5th Consortium meeting in Galway

The fifth consortium meeting took place on 15-16th March in the Faculty of Engineering, where our partner NUI Galway hosted us. Two full days were needed to ensure a transition between the development phase and the final project phase towards the final system. Now that the clinical study reached a good pace, data transfers were speeded

system's commercialisation. More information can be found on Digi-NewB website.

Poitiers center launched, all centers now including for Digi-NewB

Now 100% of centers are opened to recruit patients since the opening of the last center, Poitiers, on 12th December 2017. A two day training was made to the team in January to enable them to adequately install the system.

Poitiers will start with continuous recordings to fit the constraints of their NICU, with a completely syncronized system (physiological signals and video) to acquire Digi-NewB data. They are expected to reach around 130 inclusions by the project end.

The project was presented in several events and conferences:

28th March 2018 at French National Neonatology Days: Pr. Alain Beuchée from Rennes University hospital presented results from CaressPremi and Digi-NewB studies on Heart Rate variability monitoring in neonates and its role in sepsis detection on 29-30 March 2018.

March 2018: Abstract on Visibility graph analysis (by Dr. Nadine Khodor) applied to measurement of premature newborns maturation is now accessible on open access. Link is available here (in french)

6th June 2018: Western clinical research day on Connected objects : Digi-NewB will be presented by Pr. Pladys and Pr. Carrault on "implementing a connected object in Paediatrics, example of Digi-NewB" More information here (in french).

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