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# MACOVA 2020

Multidisciplinary Advanced Course  
on Vascular Access

A European Masterclass on the insertion and  
maintenance of vascular access devices for all healthcare  
professionals with an interest in vascular access

CONFERENCE CHAIRS | DR TIM JACKSON  
MS HELEN HARKER

15 - 17 January 2020 | Edinburgh International  
Conference Centre

P R E L I M I N A R Y  
P R O G R A M M E



## A Vascular Access Team in Pediatrics, a way to work safely

Beatriu Vilar Morales  
RN, Expert in VA  
Knowledge management  
Nursing management



# 4 Hospitals in 1 Campus

More than **3.400 professionals** have been assigned to the Nursing Department

More than **1.100 hospital beds**

We take care of **more than 1.200.000 patients per year** (adults and pediatrics)

It's made up of:



**Hospital for  
adults**

**Hospital for  
children**

**Hospital for  
women**

**Traumatology,  
Rehabilitation and  
Burns Hospital**

# *Vall d'Hebron Hospital Framework:*

- ❑ International benchmark in the field of:
  - Medical Assistance
  - Research & Development
  - Training
  
- ❑ University Campus for specialist nurse training , physician pediatrics training and midwife training



# Hospital for Children



- ❑ 200 hospital beds
- ❑ 16 of them are in PICU and 57 are in Neonatology
- ❑ 7 isolation laminar flow rooms
- ❑ Benchmark in the field of solid organ transplantation, onco-hematology, burned patients and minority diseases

# *Hospital for children data at 2019 (Nov. 30<sup>th</sup>)*

**9092**

**hospital admissions  
per year**

**40164**

**emergency attended  
per year**

**22030**

**first medical visits  
per year**

**73234**

**medical visits  
per year**

# *Endovenous treatment at home:*

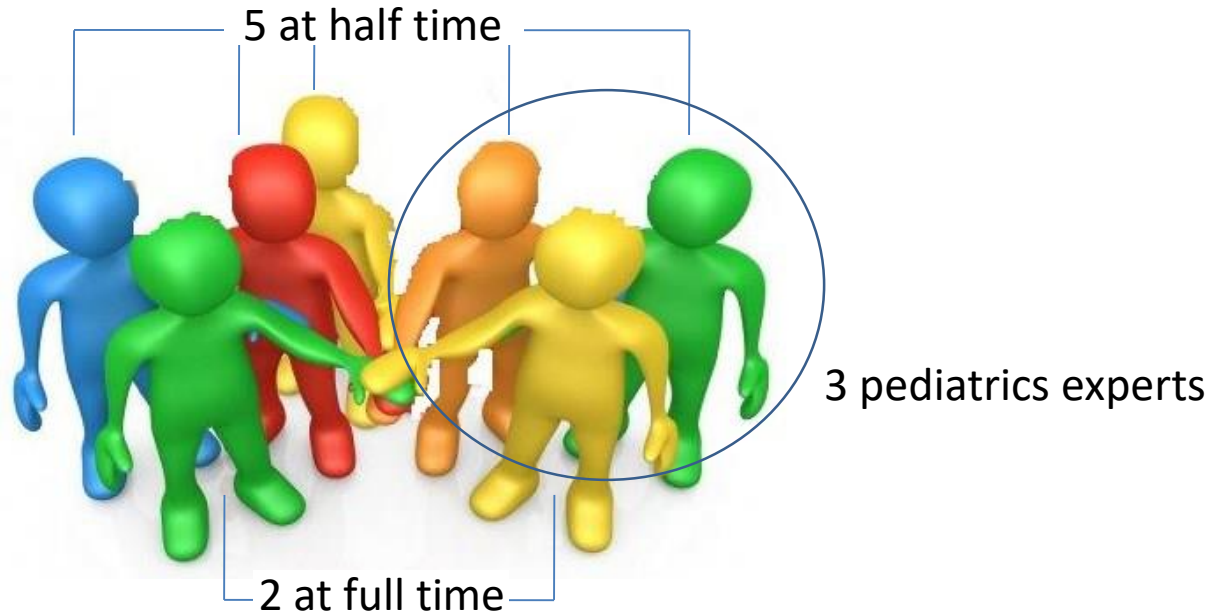
- More than 35 hepatologic patients with endovenous treatment at home with a Midline or a PICC.
- More than 20 Cystic fibrosis patients
- Less serious complications
- More comfort for the families and the patients
- Costs efficient



# The VANTeam

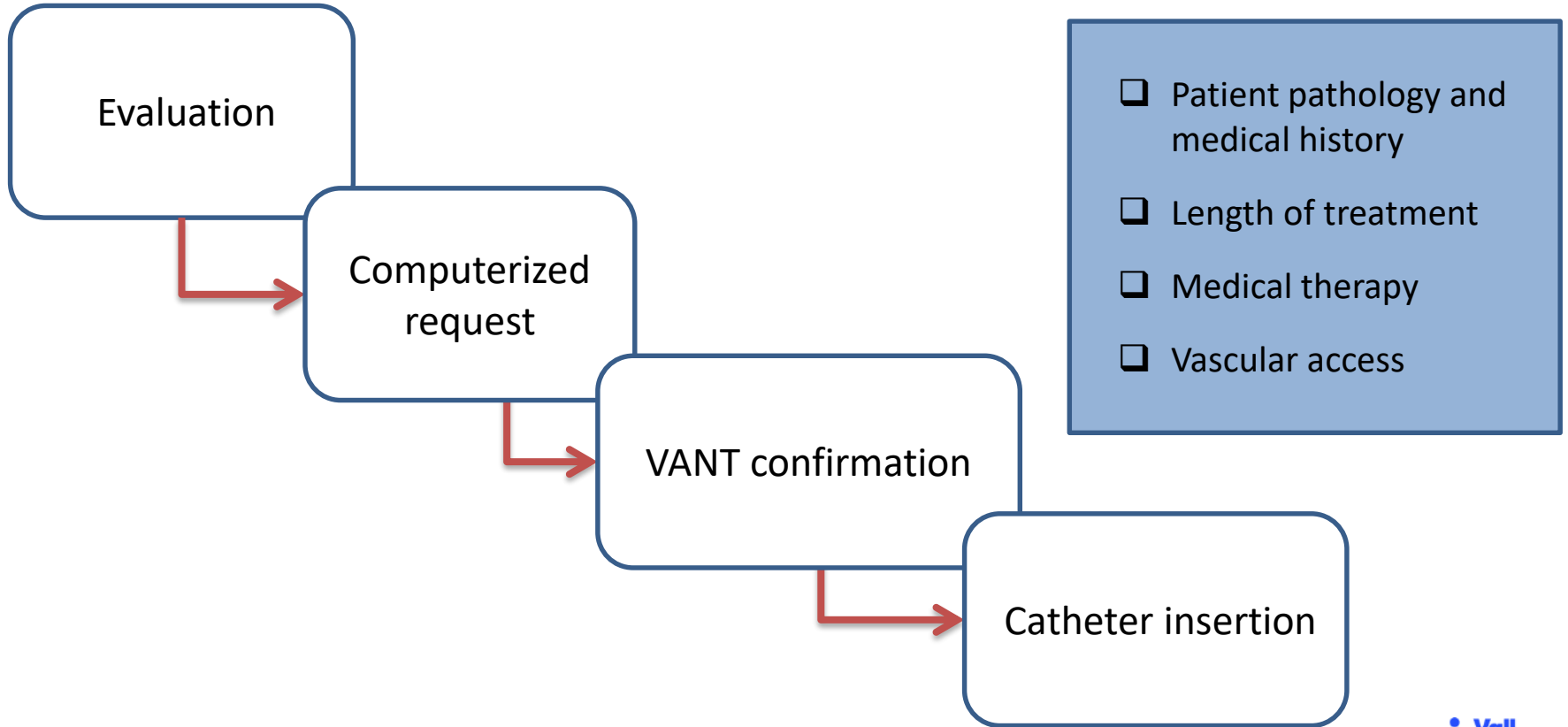
7 expert nurses in the VANT:

It's a strategic line  
of nursing  
management





# Vant Workflow:



# VANT Workflow in Pediatrics

## Scheduled request



- ❖ The specialist physician makes the VANT request
- ❖ Joint assessment for the best catheter
- ❖ The anesthesiologist scheduled the procedure to take place within the next 24-48 hours

## Emergency request



- ❖ The specialist physician makes the VANT request and phones the VANT pager, meanwhile she/he phones the anesthesiologist to know if it's possible to do it in the anesthesia office
- ❖ If it's not possible, it could be in an operating room, or in a special room in the onco-hematology unit

# *VANT activity in pediatrics:*

- We've been working since 2017
- At the beginning inside PICU, sedation or anesthesia and recovery were supervised by PICU physicians and nurse whenever possible.
- In 2019 the anesthesia office was opened to do procedures that required sedation or anesthesia but they are not surgical procedures such as endoscopy, some biopsies and the PICC insertions.



# Anesthesia office:

- 3 rooms with an anesthesia station each, one of them with bronchoscopy station, and another one with gastroscopy station.
- A recovery room with 4 beds
- The crew members are:
  - one anesthetist
  - two nurses
  - one auxiliary



# Anesthesia office Workflow:

- ✓ Previous schedule
- ✓ Able to cover emergency
- ✓ Exam before the procedure
- ✓ Sign a consent to do it
- ✓ If everything is clear, they proceed with the sedation



# *A way to work safely:*

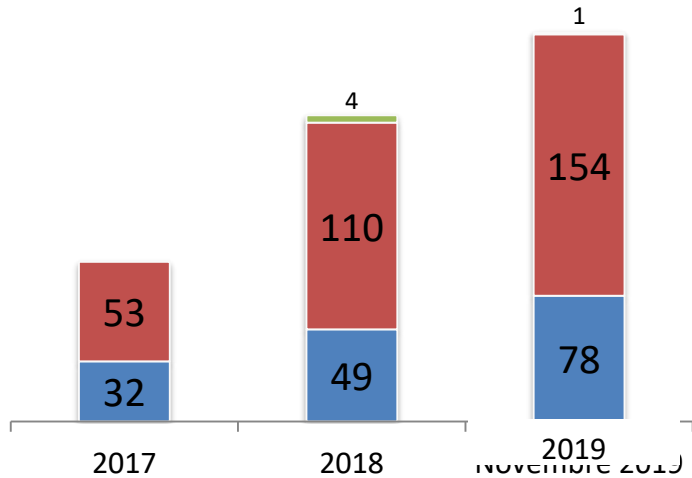
- Sedation by an anesthetist
- Expert nurse
- Use of doppler
- Gasometer analysis
- Intracavitary tip location for PICC

The key to success lies  
in the collaboration  
of the whole team

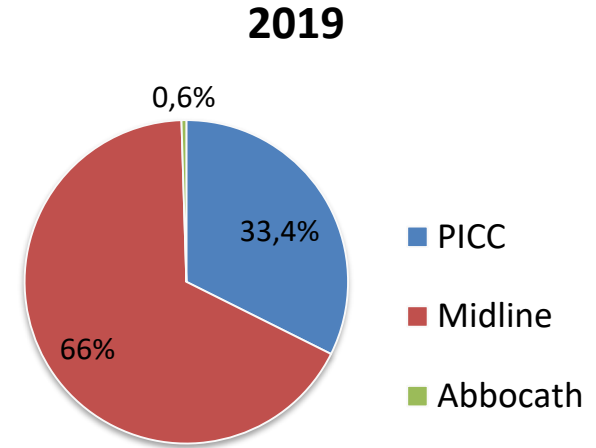


# Pediatric Data

	2017	2018	2019
PICC	155	319	443
Midline	647	1933	2204



- Abbocath
- Midline
- PICC



# *The way to the future:*

- ❖ In teaching
- ❖ In innovation
- ❖ In research
- ❖ In the patient assistance







***THANK YOU***

***MOLTES GRÀCIES***

**Vall** ***MUCHAS GRACIAS***  
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***THANK YOU***

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