

**GUILLOUËT
ERWAN
R N C R N A**

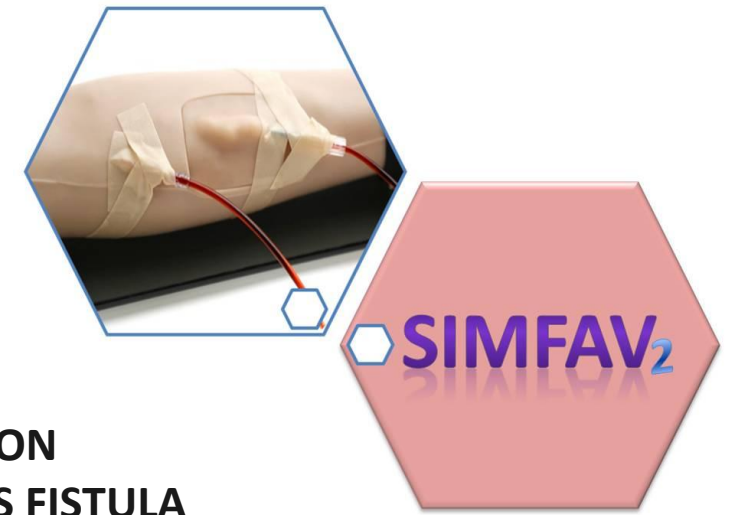
**BULEON
CLEMENT
M S c**

**NORSIMS
CAEN University Hospital France**



**SIMULATION:
BRINGING LEARNING TO LIFE**

#IMSH2021



**IMPACT OF PROCEDURAL TRAINING SIMULATION OF NURSES ON
COMPLICATIONS RELATED TO PUNCTURE OF ARTERIO VENOUS FISTULA
IN CHRONIC HEMODIALYSIS PATIENTS.**

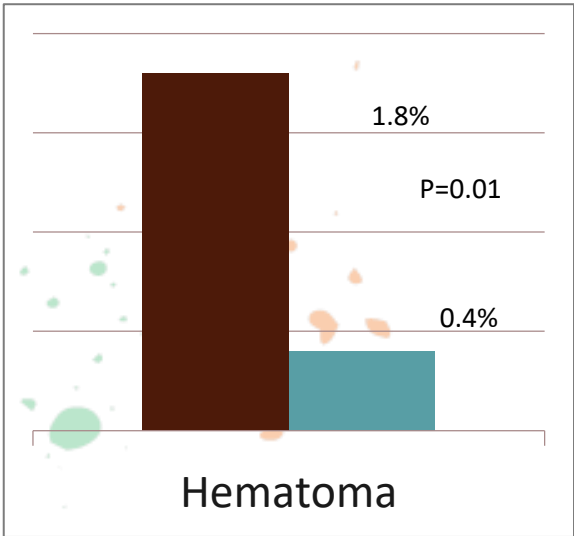
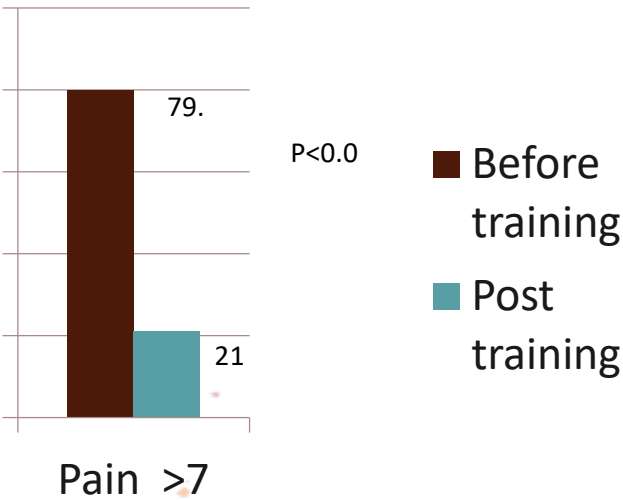
PROSPECTIVE, COMPARATIVE, RANDOMIZED STUDY



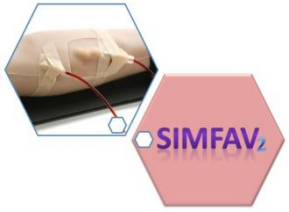
Hemodialysis population consists of increasingly older patients with significant co-morbidities.



SIMFAV1
pre/post procedural simulation training pilot study
SIMFAV1 (RCT03680209)



OBJECTIVES SIMFAV2



Compare the number of events related to AVFP between a group with a procedural simulation training and a group without.

AVFP related events:

- Number of puncture
- Dialysis output
- Failure to puncture
- Hematoma
- Hematoma preventing hemodialysis continuation
- Pain's score during AVFP

AVFP related events and situation descriptors

- Accidental needle removal
- Difficulty of AVFP's procedure
- Patients' anxiety
- Use of ultrasound by nurse
- Type of material used for AVFP

Compare in percentage between the 2 groups

STUDY DESIGN

T1	Patient recruitment	
T2	Information for nurses	
T3	Expertise and comfort survey (EXP N°1)	
T4	Randomisation by centres Pairing of randomised centres Elaboration of the training calendar	
	Experimental Group A	Control group A
	Experimental Group B	Control group B
	Experimental Group C	Control group C
	Experimental Group D	Control group D
T5	Expérimental group Theoretical training in distance learning Procedural simtraining	Control group Theoretical training in distance learning
T6	Expérimental group & Control group Expertise and comfort survey (EXP N°2)	
T7	Observation of puncture events: 600 per centre	
T8	Control group Procedural Sim training	
T9	Expérimental group & Control group Expertise and comfort survey + 6mois (EXP N°3)	
T10	Expérimental group & Control group Expertise and comfort survey +12 mois (EXP N°4)	

Real Interest to both disciplines:
SIMULATION and NEPHROLOGY

Procedural training rarely used in
continuing education

Possible effects on the AVF's
longevity and patient's
experience
Kirkpatrick's 4 model

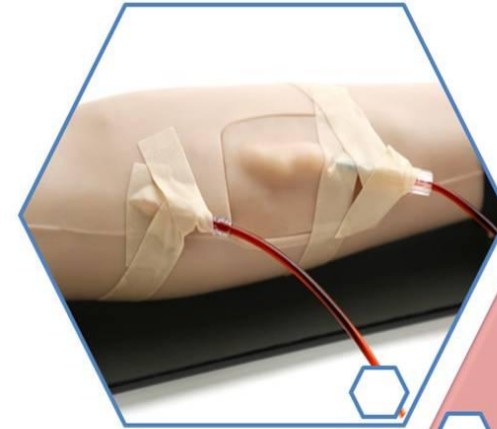
SIMFAV 2 STUDY

QUESTIONS?



#IMSH2021

SIMULATION:
BRINGING LEARNING TO LIFE



THANK YOU!

SIMULATION:
BRINGING LEARNING TO LIFE

#IMSH2021