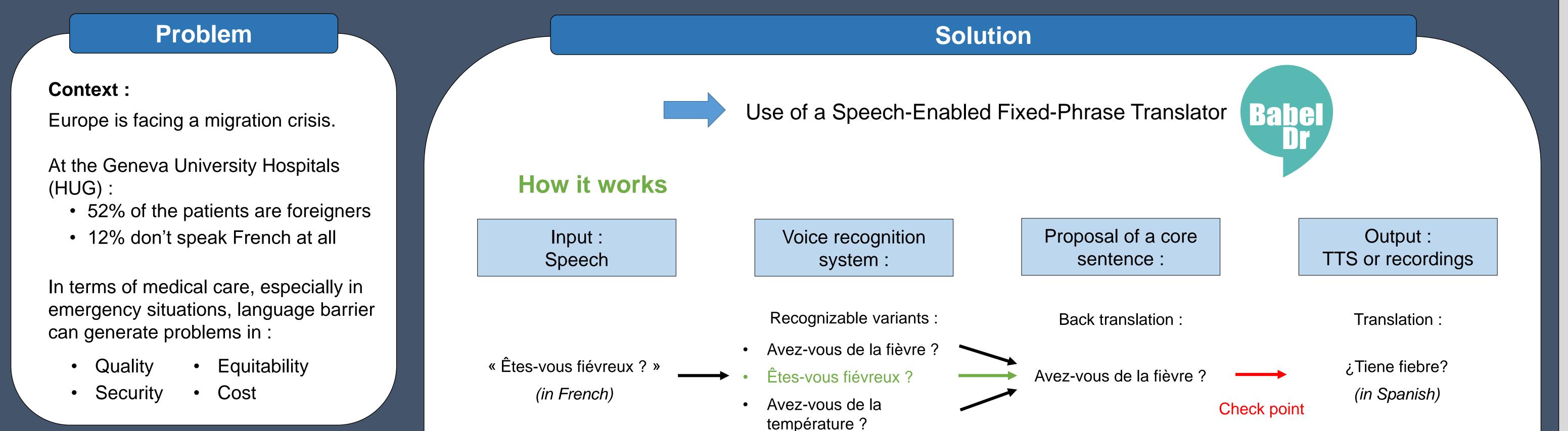


# **BabelDr – An Innovative and Reliable Translation Tool**

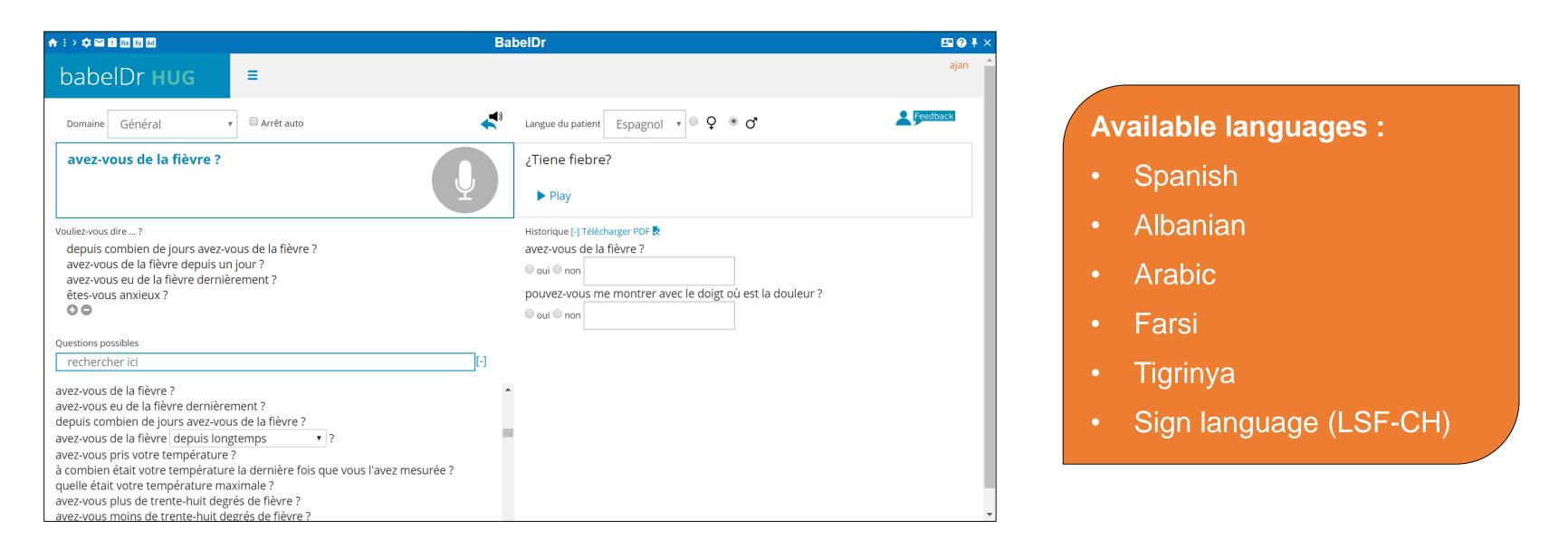


### Innovative

#### **Advantages and Functions :**

- Translation verified by experts at the Faculty of translation and interpreting, University of Geneva
- Back translation feature
- Not a word for word translation
- Guarantees data protection
- Translation according to patient gender
- Customizable to any situation or context

# What it looks like



## **Studies**

Study 1. Can Speech-Enabled Phraselators Improve Healthcare Accessibility ? A Case Study Comparing BabelDr with MediBabble for Anamnesis in Emergency Settings Boujon, V., Bouillon, P., Spechbach, H., Gerlach, J., & Strasly, I. (2018)

#### Population

- Medical Students (N = 10), French
- 2 Standardized Patients, Spanish

#### Tools

- Tablet (MediBabble system)
- Laptop (BabelDr system)
- 2 Questionnaires (1 per session)

#### Type of interaction

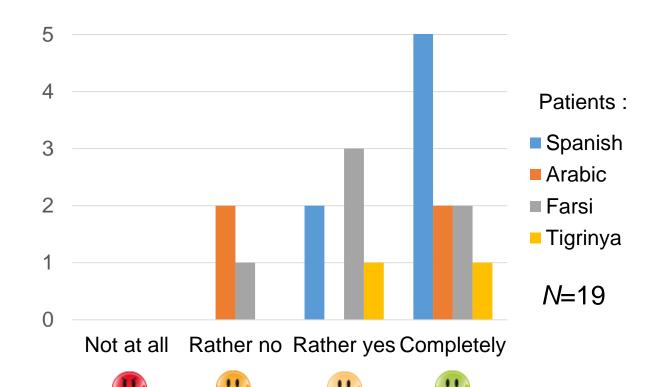
- BabelDr navigation using voice recognition system
- MediBabble navigation through a tree system logic

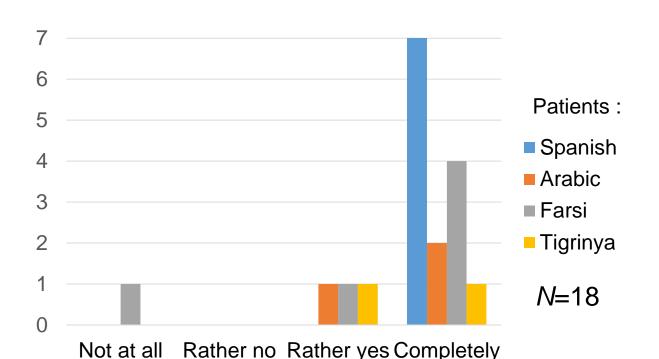
#### Experimental design

-	Session 1		Session 2	
Crossover design	Task 1	Task 2	Task 3	Task 4
	BabelDr	MediBabble	MediBabble	BabelDr
	Scenario A	Scenario A	Scenario B	Scenario B
Results				
	correct interactions		I interactions	

Study 2 (In Progress). Used at the HUG : Descriptive Analyses of Patient and Doctor Satisfaction in Emergency Settings Spechbach, H., Bouillon, P., Gerlach, J., Vuadens-Lehmann, A. & Janakiram, A. (2019)

#### **Results**:





#### Patient

Expandable

languages

to other

Multiple

platforms

#### Communicate the reason of visit

#### Item 6 :

"Have you been able to communicate to the doctor the reason for your visit to the emergency room?"

• More than 75% of patients are able to communicate their problem to the doctor

#### Satisfaction level

- Item 11 :
- "How satisfied are you with this translation tool?"
- More than 90% of patients are satisfied with the system

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	First use	Second use
BabelDr	20s	19s
MediBabble	30s <	37s

	First use	Second use
BabelDr	3.3	3.3
MediBabble	5.5	6.3

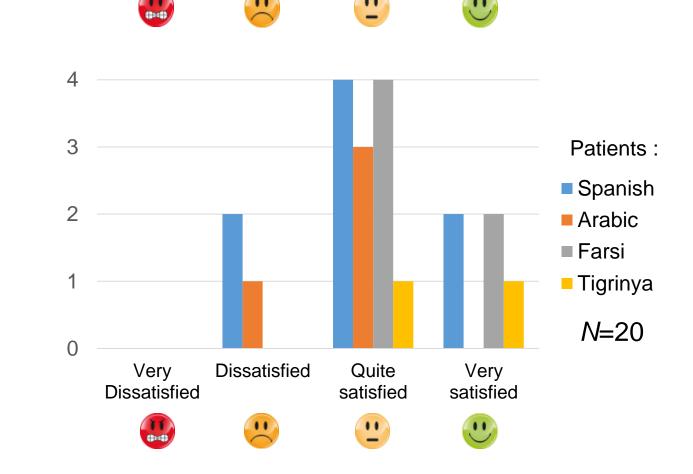
#### Similar performances

#### Difference in time by sessions

- Time of use is lower
- Average time in favor of BabelDr is 11 seconds (95%CI, 4.6-17.3, *p*<.001)

Difference in clicks by sessions

- Less mouse clicks
- Average clicks in favor of BabelDr is 2.7 (95%CI, 1.8-3.7, *p*<.001)



#### Doctor

#### Satisfaction level

Item 21 :

"Regarding the use of this software, would you say that you are ..."

• More than 75% of doctors are satisfied with the system

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**References available at https://babeldr.unige.ch** 



**FACULTÉ DE TRADUCTION ET D'INTERPRÉTATION**