

GERPAC oral communication



Securing the CAR-T-Cells supply chain management: Welcome to cognitive aids!

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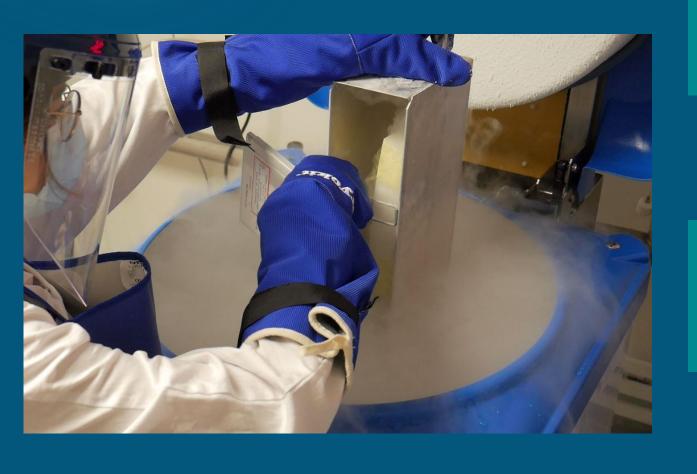
Background

SAEs's contributing factors:

- Human factors and organization
- Cognitive biases (tunneling effect)
- Complicated situations, complex routines or unexpected urgent situations

SAEs related to healthcare products are the 3rd leading cause of SAEs associated with healthcare *

CAR-T-Cells circuit



Long and complex medication system

Protocols requiring technical expertise

Specific regulation

METHODS AND TOOLS USED TO SECURE THE CAR-T-CELLS CIRCUIT

Documentary material analysis

Comparative advantages/disadvantages:

- Procedures
- Method operating
- Check-lists
- Decision trees
- Cognitive aids



Cognitive aids

- Structured tool, easy to use
- Guides the operator step by step through the sequence of actions, guiding his reasoning
- Standardizes a process without omitting any steps
- Reduces the cognitive errors risk
- Paper or digital format

MAX by Medae selection

- Customisable cognitive assistant
- Accessible via web platform or smartphone
- Login by nominative code
- Sequential protocol execution by step validation
- Publication of a final report at the end of the procedure, enabling statistical analysis after the event



Identification of sensitive circuit situations

Routine situations / Unexpected situations

Risk mapping analysis

Questionnaire: identifying the future users needs

Cross-analysis of protocols

Analysis of professional practices

Preliminaries preparations before publishing cognitive aid

- Updating existing protocols
- Inclusion of incident management scenarios
- Selection of blocking steps in consensus
- MAX by Medae publishing documentation analysis

RESULTS

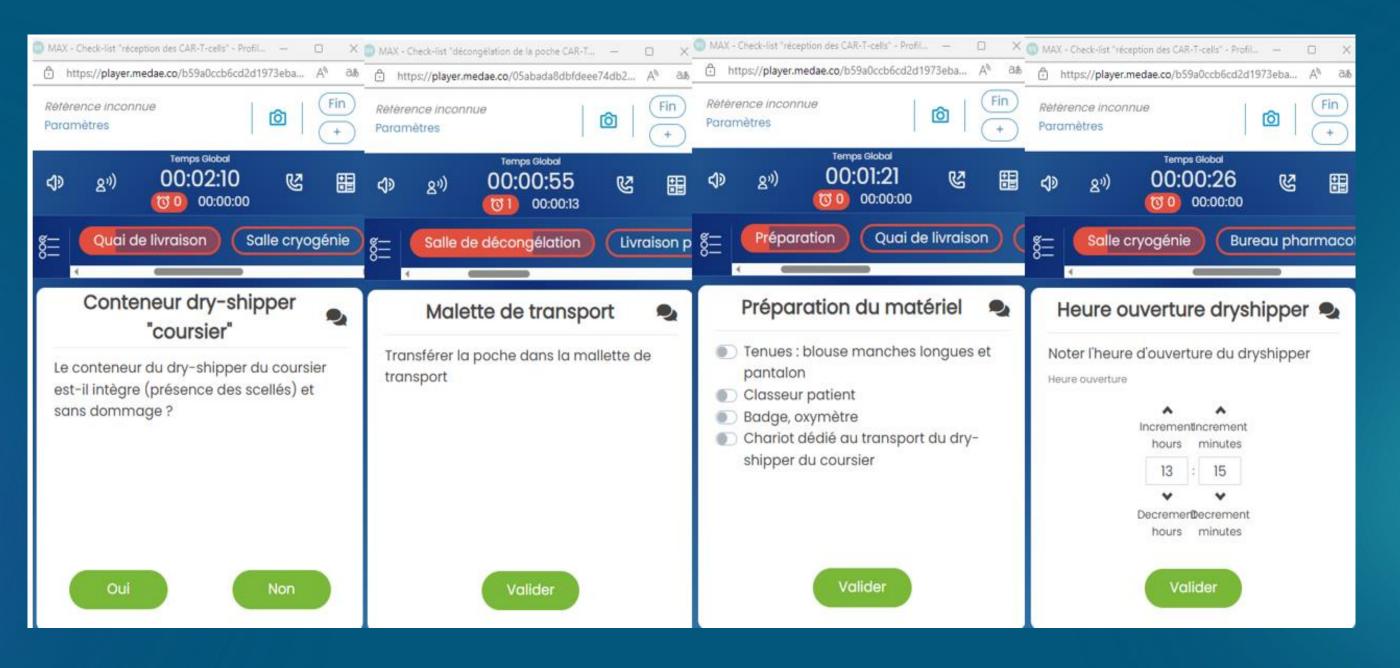


Editing a cognitive aid on MAX by Medae

- Customise digital algorithm
- To move from a tree structure to a sequence: define actions groups, which are steps dealing with the same theme
- Step validated to move for the next algorithm
- Chaining steps to ensure the right sequence in the field

Steps in thumbnail format:

- Choice: binary response
- Message: informative or instruction
- List: check items
- Data entry: information gathering



5 cognitive aids created

Check-list reception watch

Check-list reception

Check-list injection watch

Check-list preparation defrosting

Check-list defrosting

Monitoring indicators and deployment

01

- Blank test with team manager
- Technical data validation

02

- Team communication
- MAX training

03

- Gradual deployment
- Monitoring indicators



DISCUSSION CONCLUSION

Documentary material analysis: choosing the right documentary support to improve existing protocols, mastering all steps and ensuring safety

Analysis of risk mapping and needs assessment: define sensitive steps, involve operators, communicate on the project

Select MAX: customisable algorithm (integration of incident management scenarios)

: traceability report for regulatory aspects and detailed analysis of practices (weak signals)

MAX: easy, intuitive editing, but it could be optimized

: user-friendly: optimized ergonomic, easy to use

Conclusion

Cognitive aids allowed to strengthen the security of the critical stages of CAR-T-cells

High level of safety on risk management:

- Preventing cognitive bias
- A priori risk management : prepublication preparatory phase
- A posteriori risk management : weak signals detected in the traceability report

MAX by Medae: innovative, easy-to-use and intuitive tool

Times saved in traceability

Harmonization of practices

Extend the approach to other PUI areas

THANK YOU FOR YOUR ATTENTION