

Synergy of the Lean Management's approach and computerization: Implementation on manufacturing circuit of individualized parenteral nutrition mixtures

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Introduction : The Pharmacotechnie department of CHU Nice has committed to a Lean Management approach for each of its processes.

Aim : Improve work organization by anticipation and Lean Management during computerization of our parenteral nutrition mixture (PNM) manufacturing circuit, using BP'Prep software

Methods:

- Lean-trained team
- Tool: A process diagram of the complete PNM circuit
- Reflection multidisciplinary on :
 - location
 - actors
 - activities performed
 - risk analysis



Results :

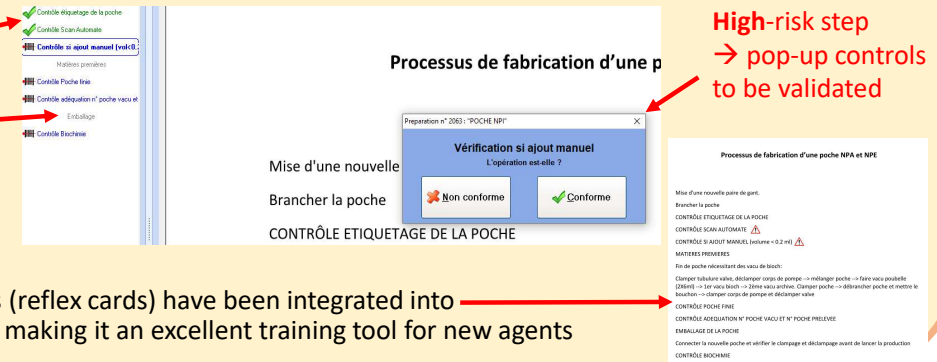
Identify the weak points in the circuit and implement corrective actions:

- 1) Relocate each action in the most appropriate place by reorganizing our circuit to optimize staff flow by determine on the location of the new computers dedicated to BP'prep software and avoiding unnecessary movement in our unit
- 2) Correct task shifts enabling the good person to be assigned to the good place, and performing the operation most appropriate to their skills
- 3) Eliminate steps as being duplicative and added no value in terms of security or quality to our MNPs
- 4) Risk mapping identified critical steps with set up additional in the software

Step considered risky
→ to be validated

Step considered not at risk
→ appears but not to be validated

Additional documents (reflex cards) have been integrated into the BP'prep software, making it an excellent training tool for new agents



High-risk step
→ pop-up controls to be validated

Conclusion – Discussion: The lean management, has been a precious decision-making aid on various levels : human resources, equipment to be acquired, optimization of the software from both a safety and a training point of view. This approach made it possible to anticipate the operability of this new circuit. The success of this upstream reflection can be seen from the first day of use of the new software, associated with general satisfaction among the team.