DESIGN AND ASSESSMENT OF AN

E-LEARNING COURSE TO TRAIN CLINICAL PHARMACISTS IN VITAMIN K ANTAGONISTS CONSULTATION

PURPOSE

. Develop and validate the training methodology

2. Provide the E-learning program

Represent a high-risk drug related to their narrow therapeutic range.

Haemorragic complications lead 18 000 hospitalisations and 6 000 deaths per year.

RESULTS

- The evaluation of the pharmacy students highlighted a significant individual progression associated to a high level of satisfaction.
- Regarding to VKA consultation accreditations, e-learning program results were comparable to those obtained with the conventional training associated to a shorter training time.

Moreover, e-learning training method was much appreciated, particularly distance learning, free access to the slideshow, learning flexibility and flash animation for role plays.

BACKGROUND

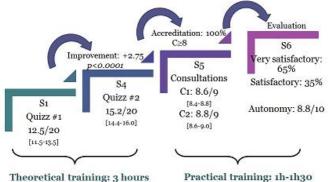
- Our hospital is involved in VKA consultations since 2009 in cardiology unit.
 - > Clinician requests increase every year.
 - > Last year, 120 consultations were performed in all adult wards of our hospital.

Vitamin K antagonsits (VKA) concerned 1.1 million patients in France.

MATERIAL AND METHOD

E-learning implementation Training method: 6 steps (S) Tools E-learning program Database of · Assessment of knowledge before training (10 min) Design the training session Train and gather results Assessment of knowledge (10 min) 35 level 1 questions Develop Validate the method Levels e-learning Training slideshow · Theoretical knowledge training (40 min) Theoretical training (20-30 min) Training slidesho Simulated · Attendance to simulated consultation (30 min) Overviews (1 overview=15-20 min) 4 flash animations Database of · Re-assessment of knowledge (10 min) E-learning plateform 35 level 2 questions Preregistred database · Practical evaluation: VKA consultation at bedside Re-assessment of knowledge (10 min) evaluation's grid Satisfaction · Satisfaction evaluation (10 min) questionnaire

RESULTS



Training method results (n=34 students)

- S1
 S4
 S5
 Validation

 Quizz 1
 Quizz 2
 Consultation 1
 Consultation 2

 17.9/20
 17.2/20
 -0.7 NS
 8.5/9
 8.8/9
 100%
- Around two hours were necessary to complete the program.
- No significant differences were observed between practical training scores of e-learning and conventional training learners.

E-learning test (n=10 pre-registered pharmacists)

E-LEARNING PROGRAM



A level 1 quizz



A theoritical training slide



A picture picked out from role play

CONCLUSION

- Anticoagulant monitoring combined to patient sensibilization is a major issue for decrease haemorragic complications.
- ➤ Training pharmacists consultant is at once necessary and critical.
- \succ E-learning greatly save time while providing efficiency.
- The perspectives for this year are to extend the e-learning in two others teaching hospitals and to include new oral anticoagulants particularities into the program.

