Construction and evaluation of E-Learning system for medical treatment safety measures

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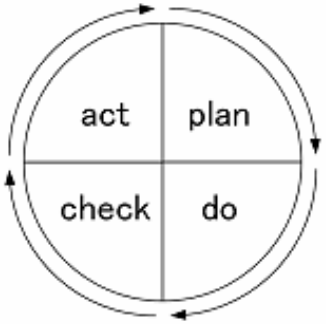
Background

- Health care environment
  - Health care continues to experience dramatic change
  - The rapid explosion of the medical knowledge
  - The medical accidents have happened frequently

- Organization
  - Safety management room

Organization

- The Tokushima University Hospital took four measures
  1. Safety management room
  2. Make medical information electronically available
  3. ISO 9001 for quality management
  4. ISO 14001 for environment management



Plan → Do → Check → Action

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Safety management room

- Submitting: The incident report is submitted through system
- Investigation: The submitted incident is investigated
- Analysis: whether an incident report leads to the malpractice
- Measures: So as not to generate the incident, measures are done.

Education for medical personnel

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Purpose

- Face to Face Education: It is the most important method. But all about 3000 staff cannot gather at the same time.
- The educating content is abundant.
- The education effect cannot be measured.

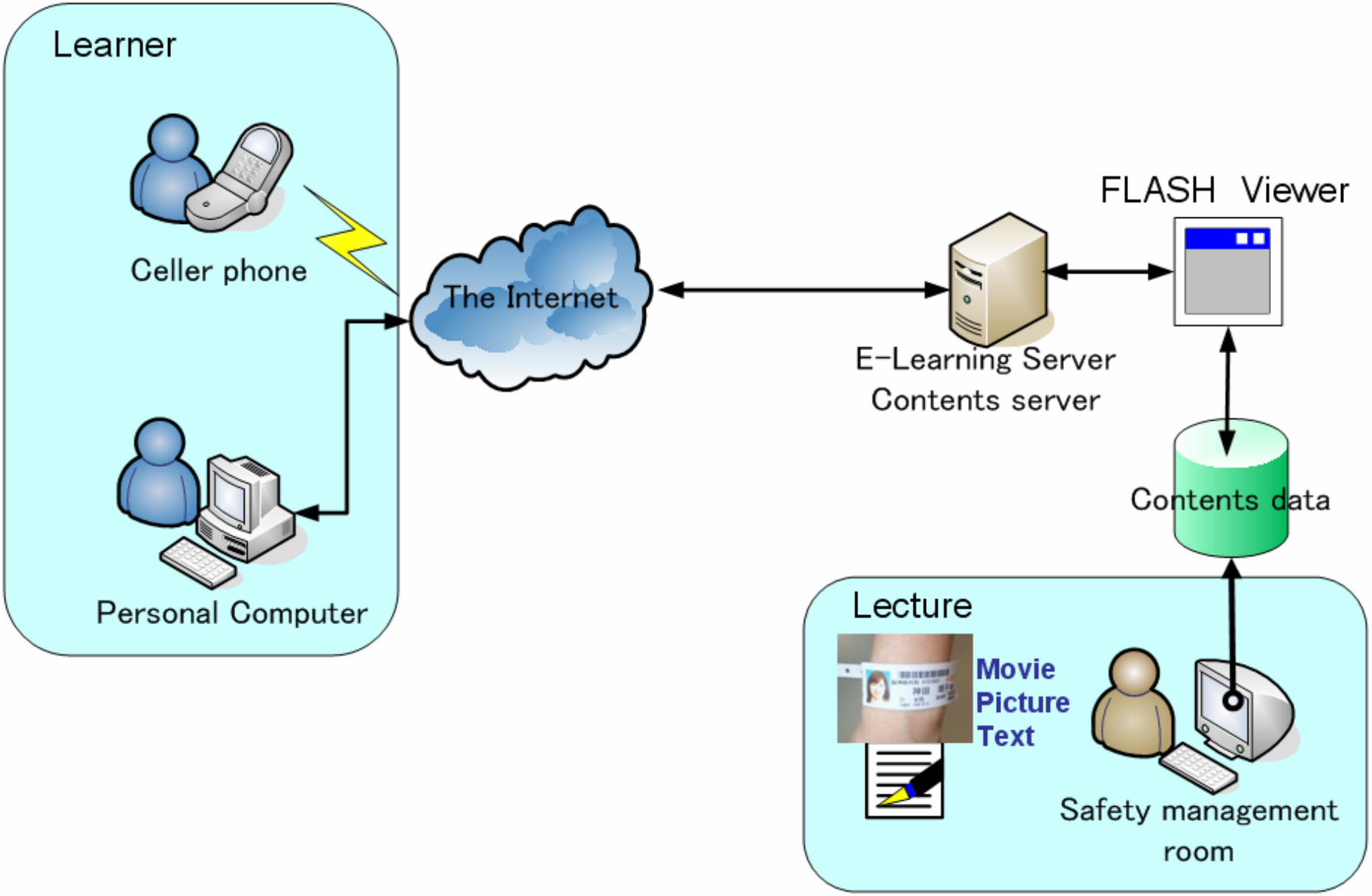
- We constructed E-Learning system for medical treatment safety measures.
  - E-Learning is a tool that supplements Face to Face education.

Method contents

- The necessary educational teaching material was based on the statistical data extracted from the incident report system. The educational teaching material is composed of the following:

1. Video data used for lecturing on medical treatment safety management
2. Power Point data made in safety management room
3. Voice data for narration
4. Test data

Method E-Learning system



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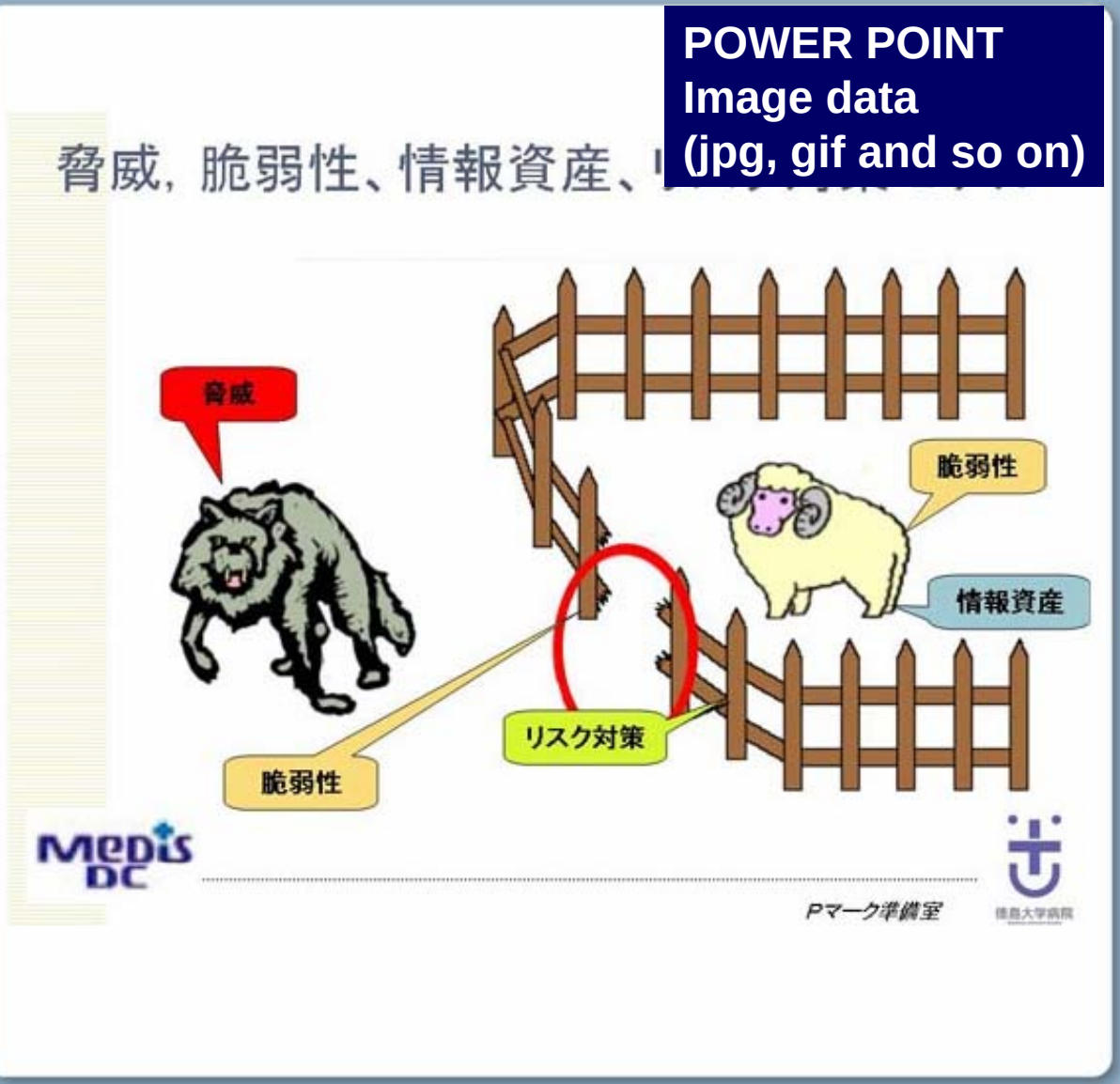
VIDEO

ITEM

TOP
個人情報保護の動向
個人情報保護に関するOECD8原則
個人情報の保護
医療分野の特徴
医療機関は何をしなければならないのか
脅威，脆弱性、情報資産、リスク対策モデ
徳島大学病院の現状
プライバシーマーク制度
コンプライアンス・プログラム(CP)
徳島大学病院のCP

undefined

POWER POINT
Image data
(jpg, gif and so on)



高血圧人口について

Title

日本人男性の高血圧の人口の割合が、過半数を超えるのは何歳以上か？次のA～Dの中から選びなさい。

Question

- A) 30歳～39歳
- B) 40歳～49歳
- C) 50歳～59歳
- D) 60歳～69歳

Answer

次へ

Next

送信

Submit

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Trial Use & Results

- Trial
  - This experiment involved about 400 nurses.
  - Contents: nursing education programs.
- Evaluation by nurses
  - Because the nurse was able to access the system from anywhere, it was very convenient.
  - 50 percent of them accessed it from outside work.
  - The person who received the lecture was also able to review the information repeatedly.
  - They were surprised at the place in which it was able to test by the cellular phone. But move data were not good.

Trial Use and Results

- Evaluation by safety management room
  - Because the nurses E-learning results are recorded, instructors could find their weak points and blind spots at an easier rate than before.
  - Tracking a learner's progress report became possible through this system.
  - It encourages interactive education.
  - Once data is registered, Safety management personnel can easily retrieve the slides stored in the database at any time they should give a lecture.
  - High appraisal was received as shown above.

Discussion

- Management: In doing the PDCA cycle to a safe medical treatment, the education and the measurement of the education effect are very important.
- Contents: The image and the video data are very important for the medical treatment contents.
- Near future program: The mechanism of the ASP type is now used in the university hospital and will expand to general hospitals in the future.