University of Calgary

PRISM Repository **https://prism.ucalgary.ca**

Conferences Conference on Postsecondary Learning and Teaching

2014-05-13

OpenLabyrinth for Learning and Teaching

Topps, David

Taylor Insitute Teaching Community

http://hdl.handle.net/1880/50340

Downloaded from PRISM Repository, University of Calgary

Virtual Patients

David Topps
Heather Armson

UofC L&T Conf
May 2014

OpenLabyrinth
Virtual Patients

http://openlabyrinth.ca

Workshop Outline

- Introductions & Needs
- Overview of Virtual Patients
- Case examples
- Conclusions and next steps

Introductions

- Who are you?
- Role in education?

Overview of Virtual Patients

What are Virtual Patients?

Not Virtual Reality

Power of the Narrative

Choose Your Own Adventure

Branching and Linear cases

- **Dealing with the consequences**

Sarah-Jane case

St George's University, London

http://www.elu.sgul.ac.uk/virtualpatients/examples/sarah_jane/SJP_h_21_NT_HM.html

“The pictures are better on the radio.”

Alistair Cooke

Cues in the environment

You go to see Sarah-Jane. OK you finish the cup of tea and the documentary first. It takes 15 mins to drive to her house, in a rather isolated part of the catchment area. When the door is answered, her mother, Ruth takes you inside and into the lounge. The whole house is a mess, with clothes, papers, bills and dirty plates strewn around.

The baby is sitting in her bouncer chair. Next to her is the dog, asleep on the floor. It smells. There is another child, maybe 3 years old wathcing TV in the room.

You ask the mother some questions and find out these details:-

She had a runny nose yesterday.

Her cough started this morning. It seems tickly - it keeps annoying her.

She vomited once this afternoon.

There has been no diarrhoea or temperature.

She has been well since discharge from hospital 3 months ago.

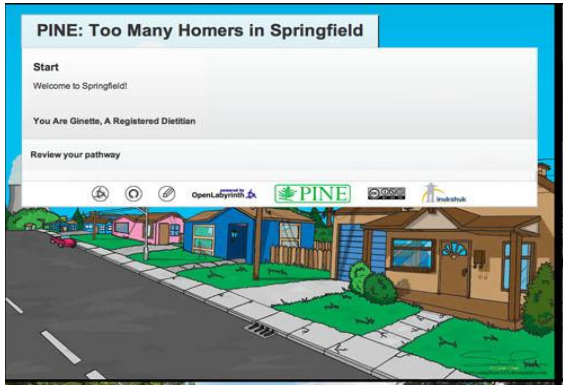
What would you like to do?

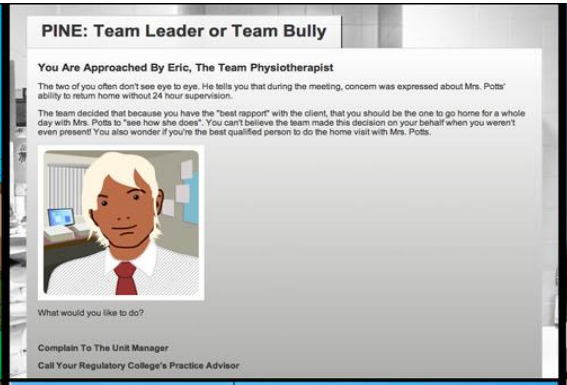
Examine her Ask more questions Treat her Send to hospital Review in the morning

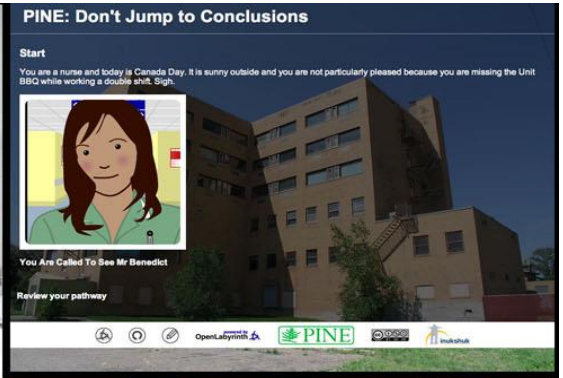
Uses of Virtual Patients

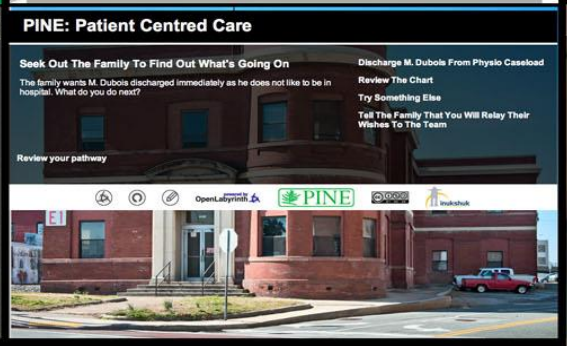
- Simple case presentations
  - Shorter rather than longer
- Self-directed learning
- Small group discussions
- Flipped-classroom approach
- Assessment of problem solving

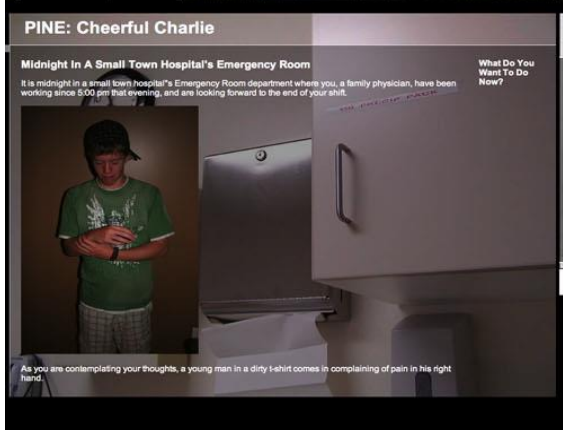
PINE Library

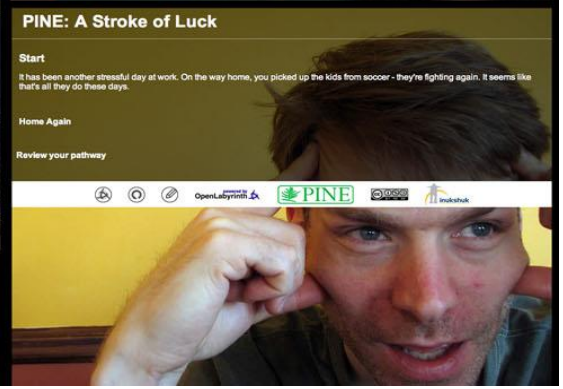








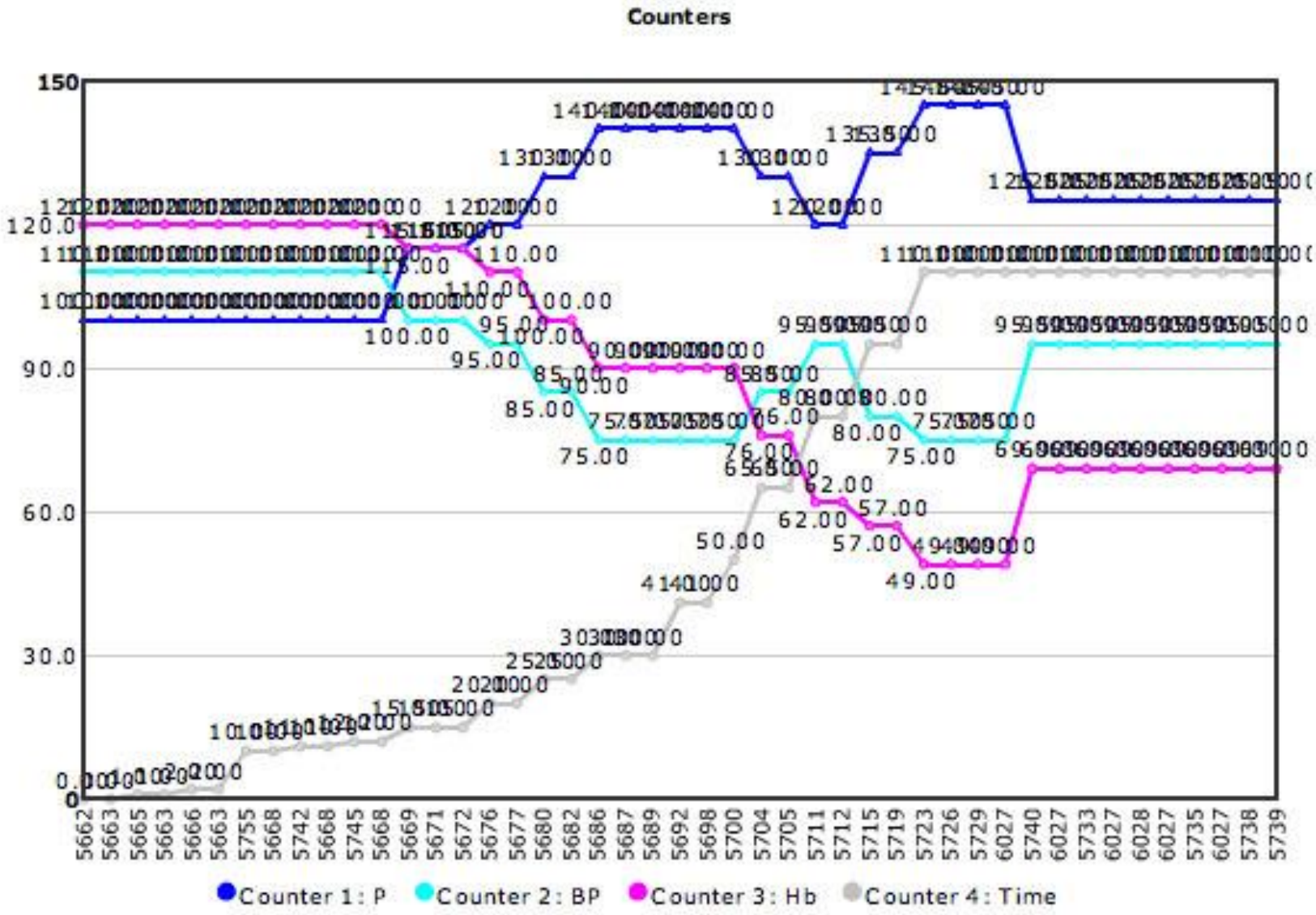




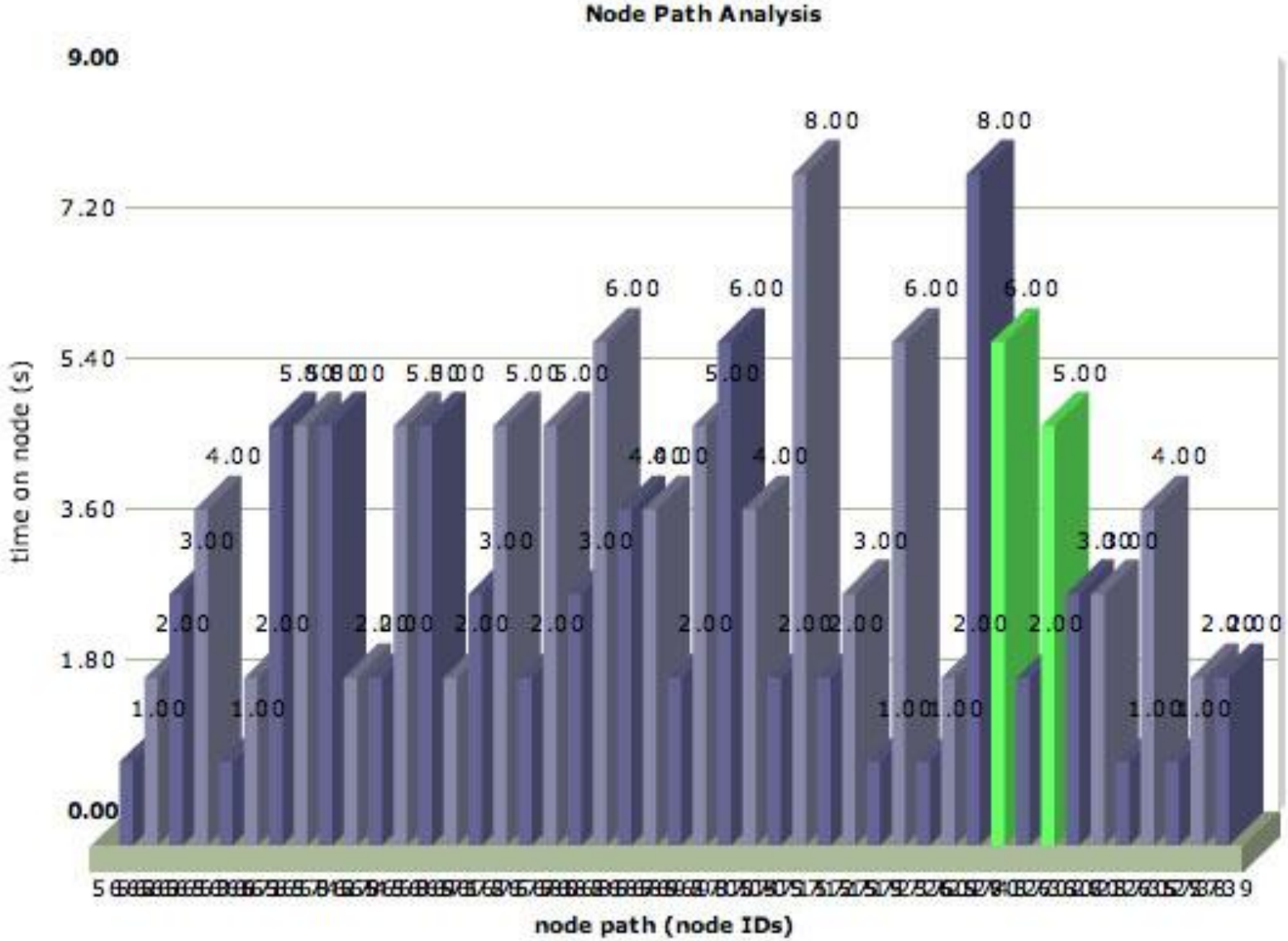
Everything is tracked

- **Timing**
- **Paths**
- **Counters**

Everything is tracked



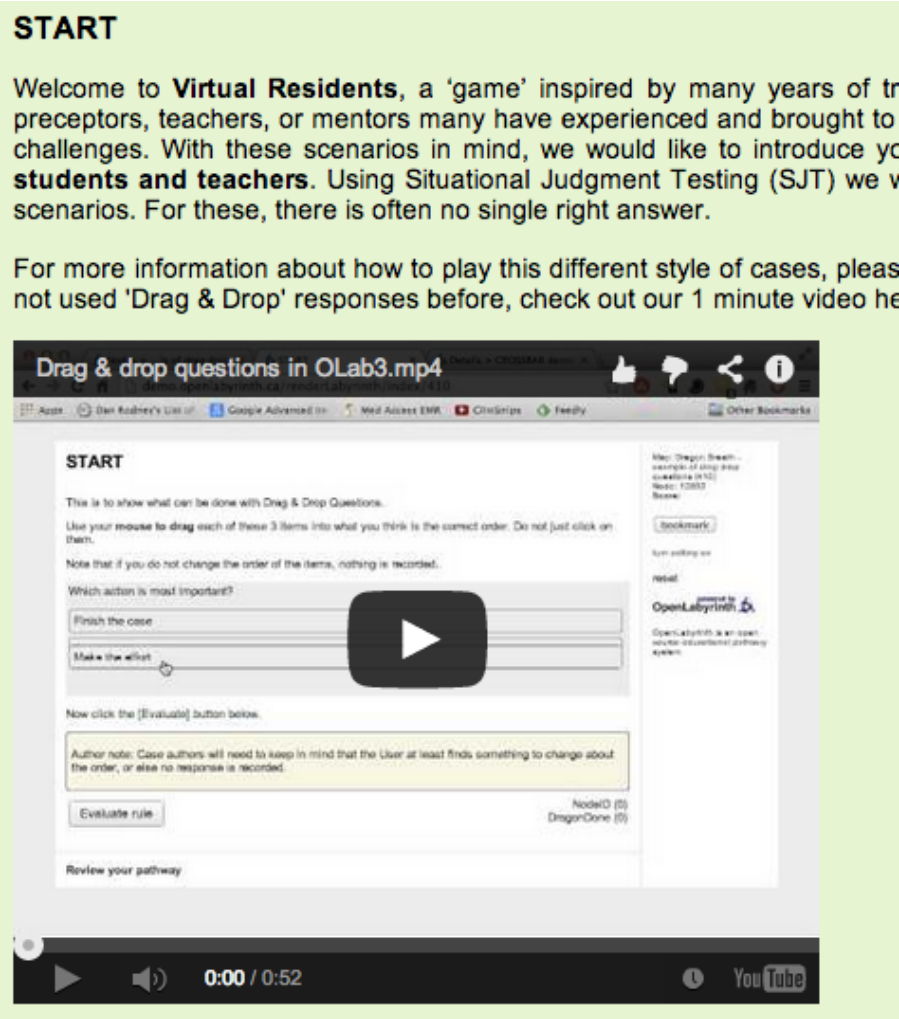
Everything is measured



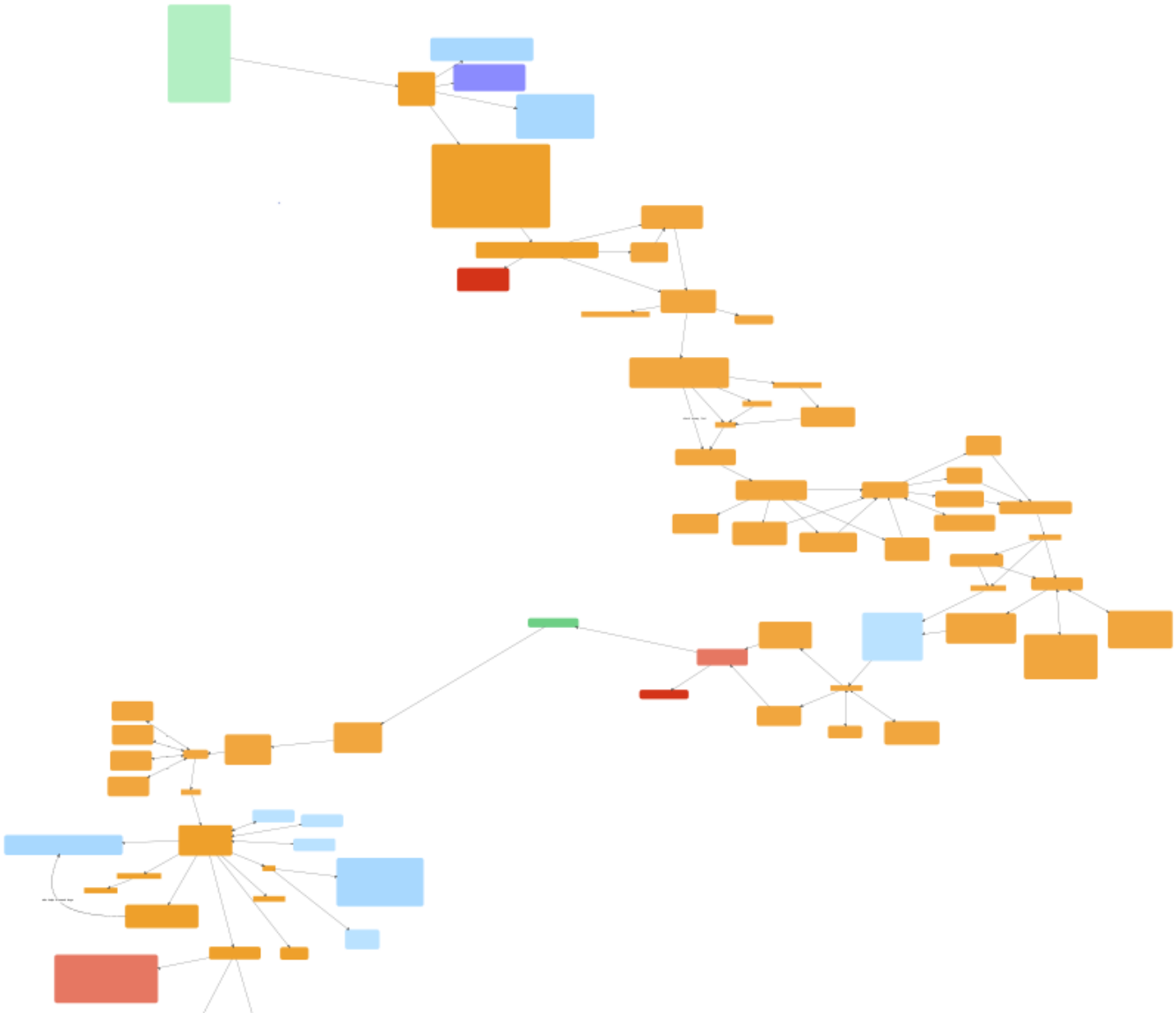
Assessment of problem solving

Situational Judgment Testing

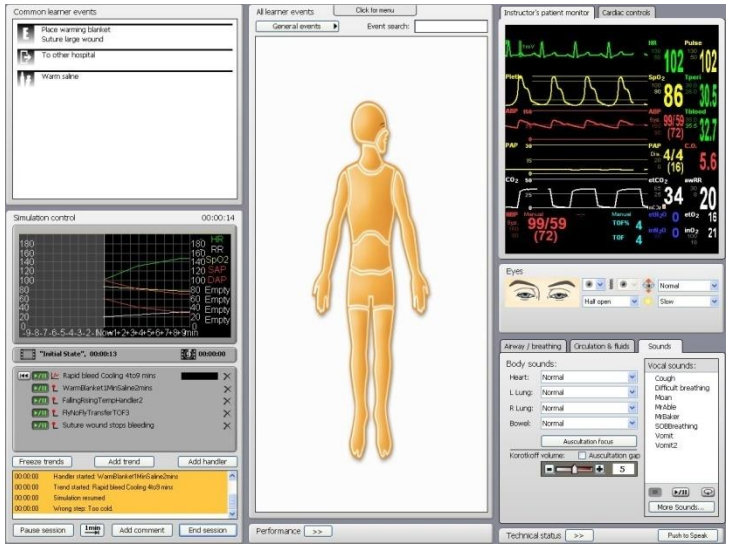
- Better for non-clinical eg ethics
  - http://demo.openlabyrinth.ca/renderLabyrinth/index/382

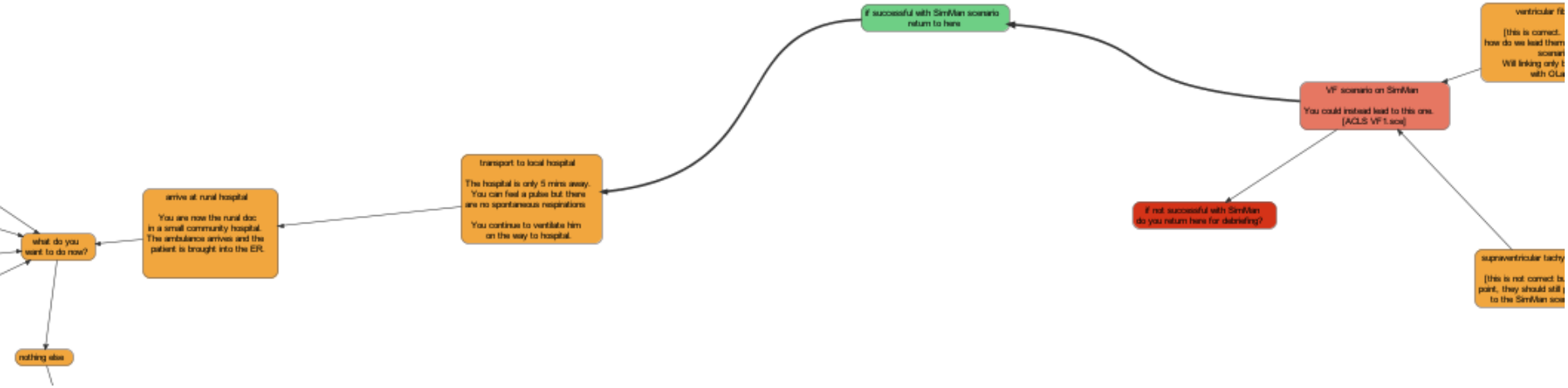


Virtual patients as bookends



Breakout to SimMan





Virtual EMR

University of Calgary - DFM T...

MD: Topps, David

My Tasks | My Bills | Chart | Schedule | Templates | Reports | Logout

Patient Summary:

Name: **Lobak Test** Gender: **Male**
Ins#: **11111-1111** Chart#: Cellular Phone: **(403)**
DOB: **19-Nov-1960** Age: **50** Provider: **D. Topps**

Search

Demog | Visits | Tasks | Bills | Allg | Meds | Profile | Labs | Invest | Consults | Imm | Goals | Summary

Visit

Return | Visit

Template: Save as template

Subjective

Concern: Code:

Assessment

Profile | Allg

Diagnosis: back disorder nos Code: 724.9

Medical

Billing Item: Code:

Plan

Task | Inv | Con | Lab | Imm | Diag

Select Care Plan... Plan Active Meds... Med

Start: 29-Jan-2011 09:01 PM End:

Disposition:

Insurer: AB - 111111111

Date: dd-MMM-yyyy 20-Jan-2011 09:01 AM Confidential?

Provider:* Topps, David Sign Off?

Billing Provider: Topps, David

Save Visit

Sig neuro Sx	No	
Major trauma	No	
Steroid/imm suppr.		
Age > 50		
Previous CA	No	
Osteoporosis		
Fever, night sweats		
Pain worse at night?	No	

Subjective Note

Still getting sciatica like pain. No power loss. No trouble standing up from sitting.
No bowel or bladder symptoms.
Fed up with ongoing WCB battle. Report due...

Objective Note

Mildly antalgic gait. SLR 60deg both sides.
SIGECAPS negative.

Assessment Note

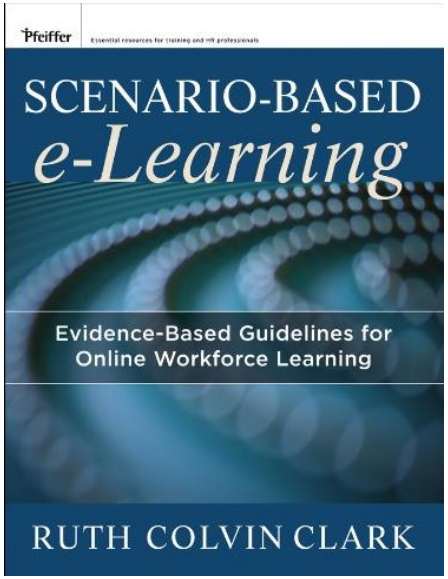
Narcotic use increasing.
Needs other approaches to pain

Preceptor's notes

Internet | Protected Mode: On 100%

Learning from mistakes

- Err in safety
- Scenario Based Learning
  - Ruth Colvin Clark

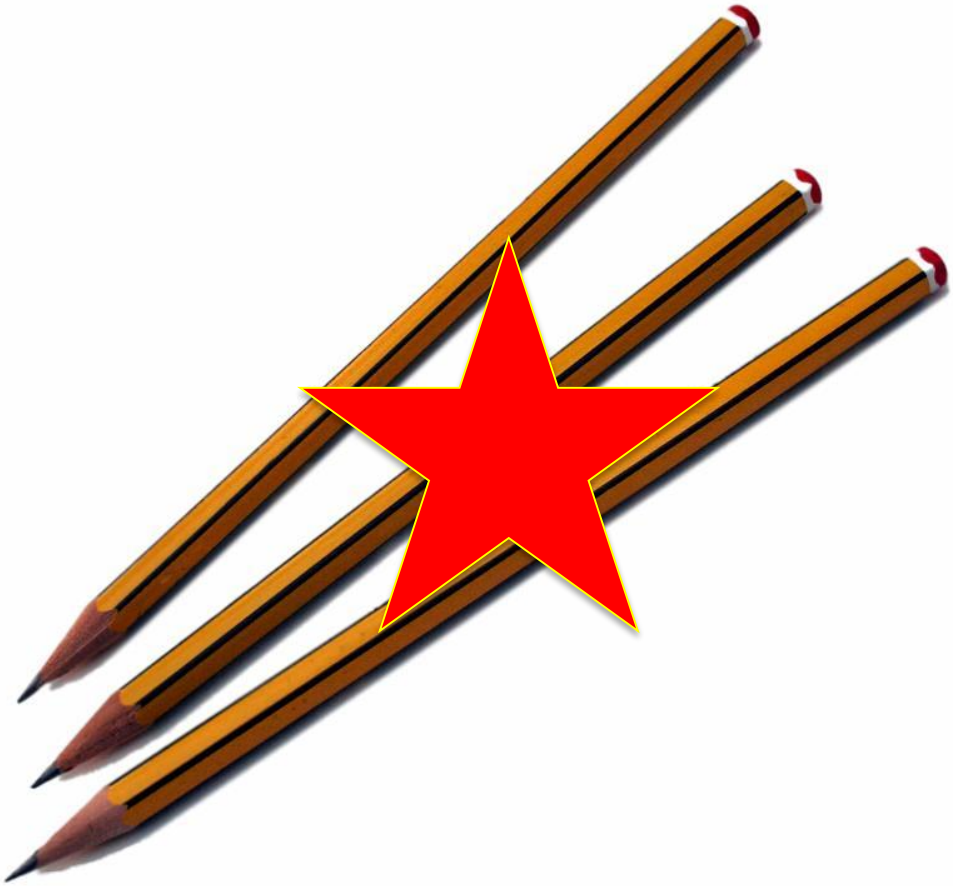


Your ideas…?

Work in 2-3’s

Return in 5 mins

Complexity isn’t everything



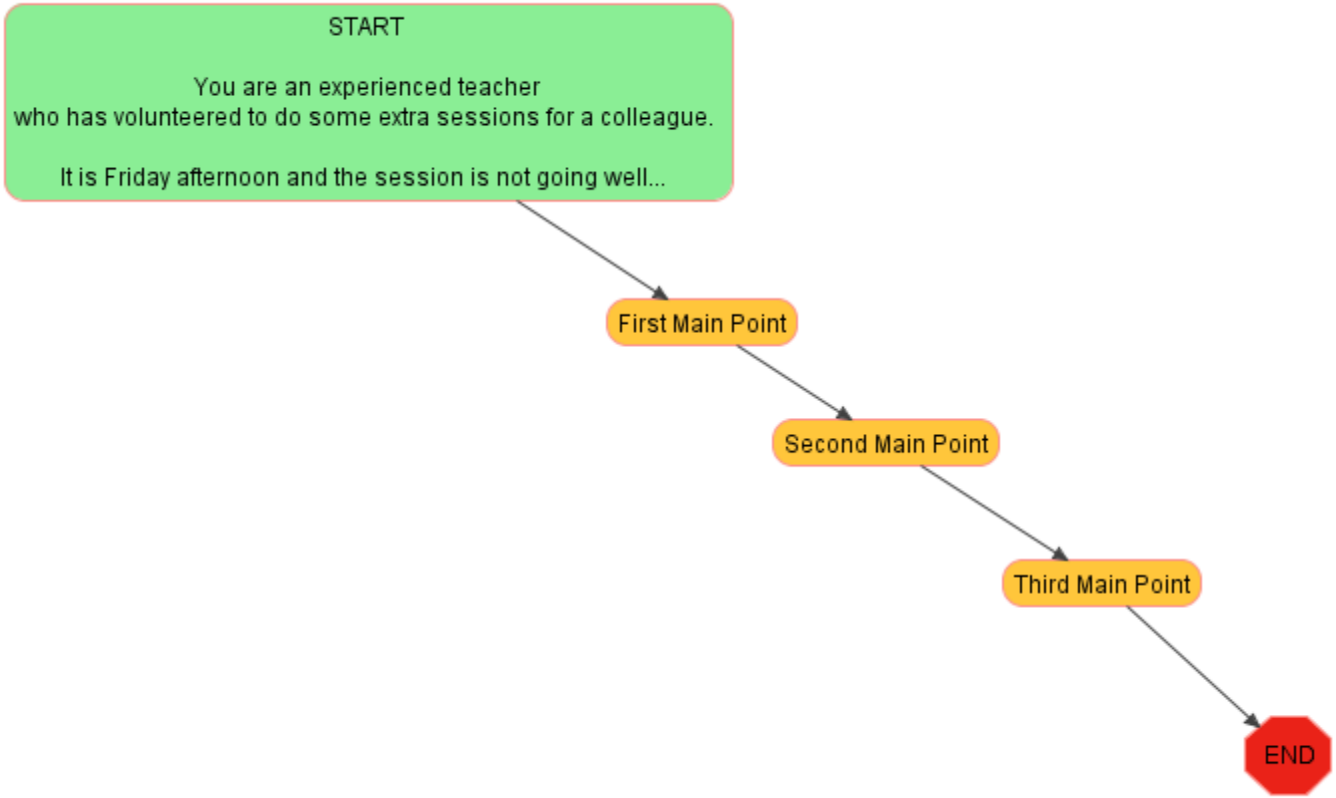
Case examples

- VP on VPs
  - http://vp.openlabyrinth.ca/renderLabyrinth/index/49
- Careers board game
  - http://vp.openlabyrinth.ca/renderLabyrinth/index/45
- Street Drug Guide
  - http://vp.openlabyrinth.ca/renderLabyrinth/index/37

Using a concept mapper

- http://vue.tufts.edu/
  - Free flexible concept mapping tool
- http://demo.openlabyrinth.ca/
  - Built-in Visual Editor

Define the Design



Your first - KISS

~~Uncle~~ Sam needs you!

YOUR PATIENT

Second person narrative style

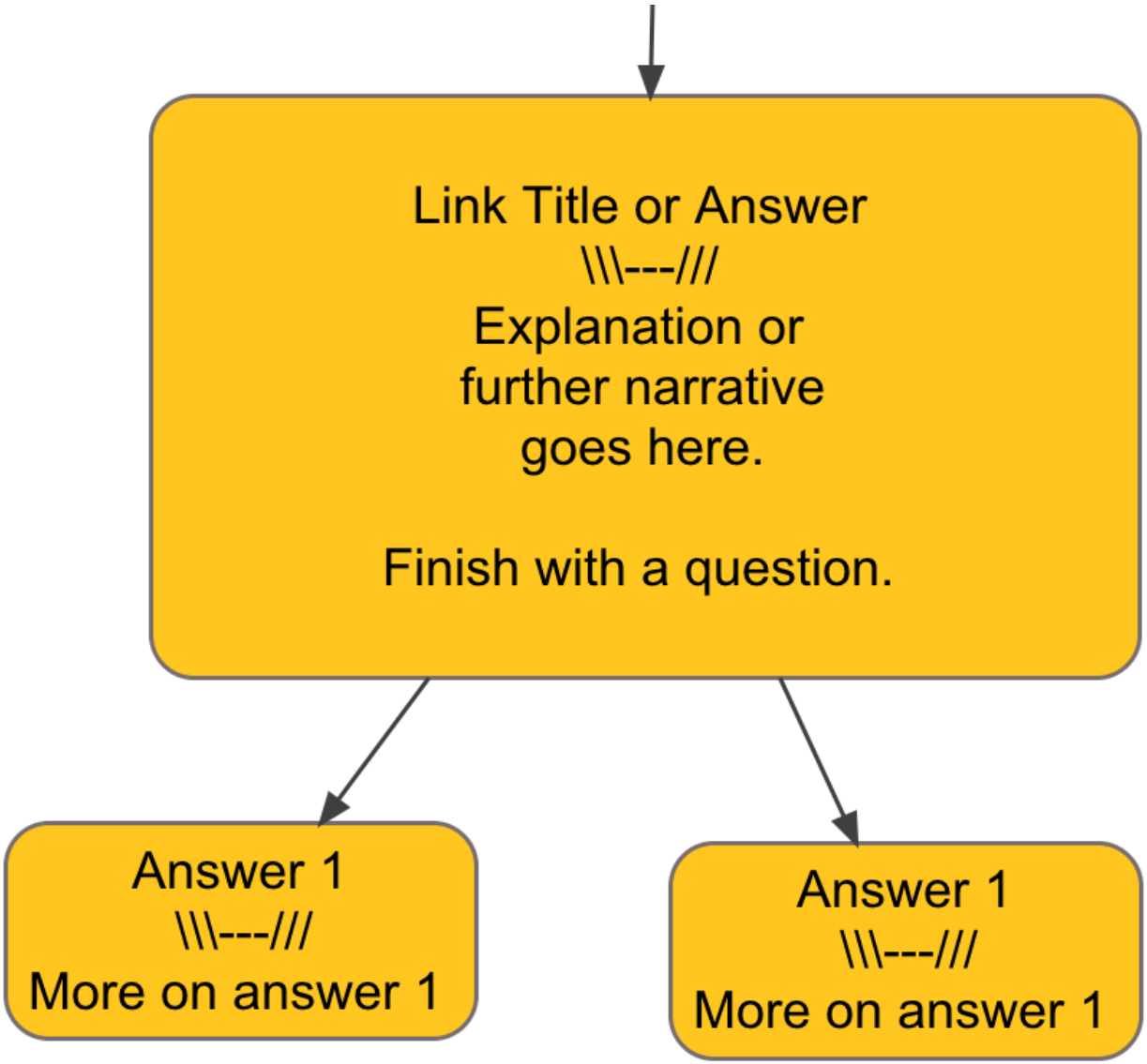
Discover the facts

- Just the facts, ma’am
- Don’t hand it to them on a plate

Working with OpenLabyrinth

- Create a case
- Visual editor
- Node editor
- HTML editing
- Images
- Avatars

Layout of a node



Key design points - reprise

- Have you defined your main learning points?
- Do you have a story to tell?
- Have you made them think?

Next steps

What do I need?

- Web browser
- Tech help or a teenager
- Access to an OpenLabyrinth server
  - http://demo.openlabyrinth.ca/
  - All are free
    - (except for the teenager!)

Further resources

- OpenLabyrinth web site
  - http://openlabyrinth.ca
- Virtual Patient on Virtual Patients
  - http://demo.openlabyrinth.ca/renderLabyrinth/index/49
- Making a gin and tonic
  - http://demo.openlabyrinth.ca/renderLabyrinth/index/89