



Surgical Training and Assessment

for the **Operating Room (OR) Team**



@periopsim www.periopsim.com



QUALIFIED

OR managers are finding it increasingly difficult to hire experienced perioperative RNs and surgical technologists.

IMPROVE STAFF SKILLS WITH VR TRAINING

OR CHALLENGES



Inadequately prepared to enter the OR to perform a procedure for the first time.



On-the-job training is a risky & stressful way to learn a potentially life-altering skill.



Nursing shortages increase pressures on staff to perform beyond their current skill set.



A CURRENT SOLUTION TO CURRENT PROBLEMS

REGULATION



Quality of Care Ratings

OUTDATED



100% Apprentices Model

EXPERIENCE DRAIN



Average Age is Declining

HIGH QUALITY TRAINING AT SCALE

Delivered as a
Service

Neuroeducation → Rapid learning
Assessment data → Educator savings



EXPERIENCE ON DEMAND



EFFICIENT

PeriopSim is easier to schedule than job shadowing and **requires half the staff effort**. Help OR nurses get up to speed more quickly in a **safer learning environment** for the learner, the patient, and the educator.



EFFECTIVE

PeriopSim is **6x faster** – run through a 1 hour procedure in 10 minutes. PeriopSim is backed by **4 years of research by leading neuroscientists**.



PERSONALIZED

PeriopSim offers **personalized training** without the need for a 1:1 educator. By filming live procedures and working closely with leading educators & surgeons, PeriopSim delivers best-in-class quality content.

BACKED BY NEUROSCIENCE

Conquer Experience, the creators of PeriopSim, works with an advisory board, including neuroscience experts. The company is based at the Health Tech Innovation Hub at Surrey Memorial Hospital in Canada.



DAVID B CLARKE
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Surgeon, Head of Neurosurgery, Dalhousie University, Nova Scotia Health Authority



RYAN D'ARCY
B.Sc, M.Sc., PhD

Professor and BC Leadership Chair in Medical Technologies, Simon Fraser University Head, Health Sciences & Innovation, Fraser Health



JAMES KRYKLYWY
PhD

Neuroscience Research, Motivated Cognition Lab, Department of Psychology, University of British Columbia

SIMULATION EXPERIENCES

Simulation study results provide substantial evidence that substituting high-quality simulation experiences for up to half (50%) of traditional clinical hours produces comparable end-of-program educational outcomes.¹

NEW GRADUATES READY FOR CLINICAL PRACTICE

Achieve comparable outcomes vs. real instrument training with faster delivery and lower implementation costs.²

BETTER
OUTCOMES

"It brings this kind of energy to our Periop Orientation that we didn't have before. There's excitement for us, but there's also excitement for the students. They love using it."

Amy Boone, System Director for Perioperative Services, University Hospitals in Cleveland

FASTER
DELIVERY

NEW RESEARCH PUBLISHED

Knowledge transfer and retention of simulation-based learning for neurosurgical instruments: a randomised trial of perioperative nurses.

[LINK](#)

LOWER
COSTS

*"This (PeriopSim) is not a temporary fix, it is a permanent one. Every 1 hour 20 minutes they (Learners) spend on it (PeriopSim) they get an equivalent of 8 hours worth of externship. **49%** of our learning can be done online and is accepted by our accreditation board (COE). Therefore 405 hours of learning for each student will be covered by PeriopSim."*

Dr Ghazafar Mahmood, Former Neurosurgeon, Surg Tech Degree Program, Chief Academic Officer, Advanced College



**Boston
Children's
Hospital**

Until every child is well™



THE GEORGE WASHINGTON
UNIVERSITY **HOSPITAL**



**SIBLEY MEMORIAL
HOSPITAL**
JOHNS HOPKINS MEDICINE



University Hospitals

SIMULATION VALIDATION

MODULE 1 INSTRUMENTATION

Practice makes perfect with
repeatable scenarios



MODULE 2 PROCEDURE

Practice procedure until you get **0 errors**
multiple times before you go into OR with
Preceptor to double scrub or circulate



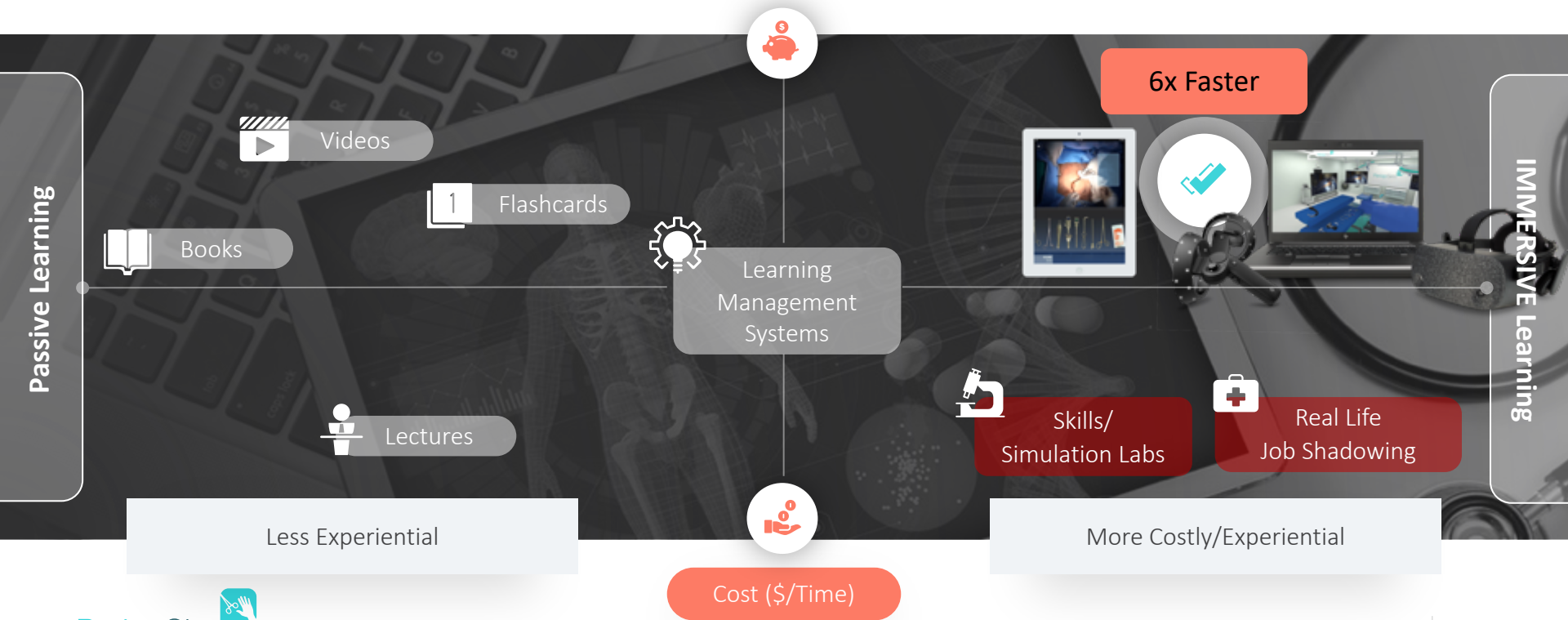
ASSESSMENT EDUCATOR

Assess learner **Competency on Steps of
Procedure, Surgeon Anticipation and
Instrumentation** with quantitative data.



BEND THE LEARNING CURVE

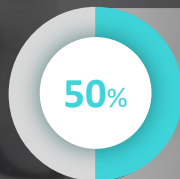
Real life experience is in short supply.



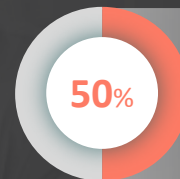
PACKAGES FOR ORIENTATION AND CONTINUING EDUCATION



CURRICULUM INTEGRATION



SIMULATION



CLINICAL ROTATIONS

PeriopSim



6x Faster: 1 hour long procedure takes 10 minutes
30+ Hours of Clinical Simulated Experience
6 Hours of Simulation in Curriculum
Competency Evaluation on over 35 Procedure and Instrument Set Experiences
Independent Learning and Evaluation on steps of a procedure, anticipating and instrumentation.

PeriopSim VR



6x Faster: 1 hour long procedure takes 10 minutes
30+ Hours of Clinical Simulated Experience
6 Hours of Simulation in Curriculum
Competency Evaluation on over 35 Procedure and Instrument Set Experiences
Independent IMMERSIVE Learning and Evaluation on steps of a procedure, anticipating, instrumentation, passing technique, sharps safety and sterile technique.

TRAINING COMPLETED IN 1/2 THE TIME

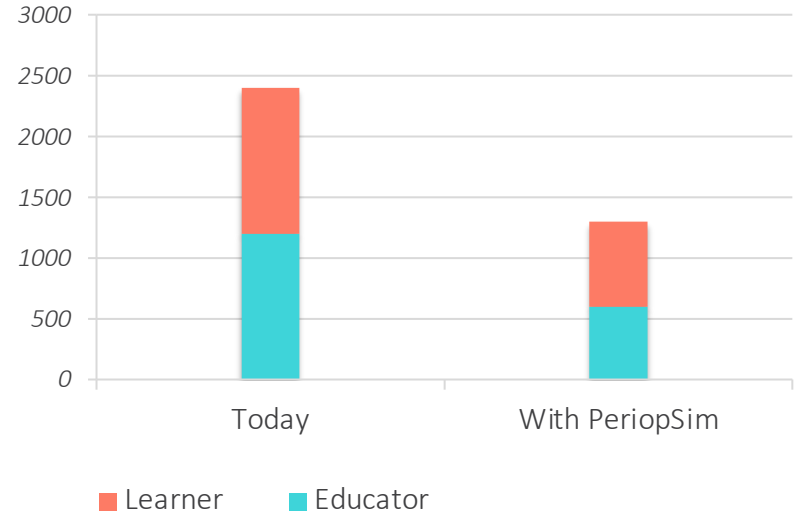
Our Experiences are

 6x Faster

We can replace 50% of Job Shadowing



Hours to Competency for 10 Procedures and 10 Learners



PROVEN SOLUTION AND HEALTHCARE PARTNERS



Customers are seeing time savings, energized learners and more competent and confident staff.

Customers and Content Partners



Solution Partners



EXPERIENCE MODULES (30+ HOURS OF EXPERIENCE)



Instrument Sets, **Procedures** and Sterile Processing

GENERAL SURGERY

Common Basic
Laparotomy
Open Inguinal Hernia
Laparoscopic Cholecystectomy
General

G

ORTHOPAEDICS

Major Bone
Minor Bone
Bipolar Hip
Hip Nail
Major Bone
Minor Bone

O

NEUROSURGERY

Basic C
Neurosurgery
Craniotomy Trauma
Burr Hole
Transsphenoidal

N

CARDIO THORACIC

Major Chest A and B
Thoracoscopy
Scanlan
Thoramnet

CT

IN PROGRESS

Hemicolectomy
Open Laparotomy
Thoracoscopy
Pediatric Cardiac
EVAR/TVAR/TAVR
Knee, Ankle

IP

COLLABORATORS REQUIRED

TRAUMA
ROBOTICS
OBSTETRICS
GYNAECOLOGY

CR

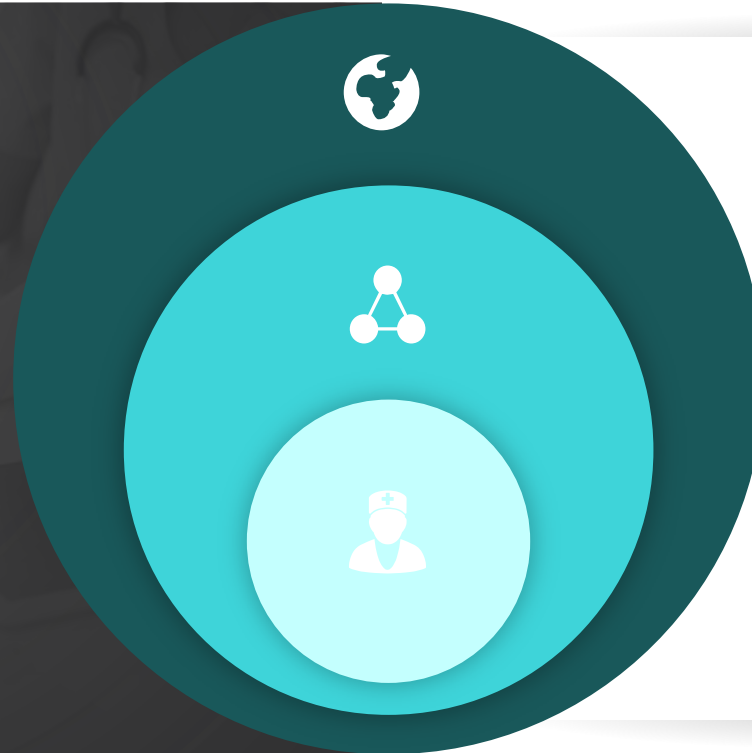
STAFF

3-6 Months

Until productive team members. Quality Preceptors are in short supply.

3-5 Years

Until they need a new challenge. Are you able to cross train?



DEPARTMENT OF SURGICAL SERVICES

*Orientation, Cross Training,
New Procedures and Devices,
Rare Procedures*

OTHER ROLES

*Radiology Techs, Sterile
Processing Techs*

PERIOP RNs & STs

*Steps of procedures, anticipating the
surgeon, instrumentation, sharps safety,
maintain sterile zone*



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Chair of the Society For Simulation Special
Interest Group – Serious Games and Virtual
Environments