Simulation Guide

This checklist is intended for use by a lecturer when setting up a simulation.

CONCEPT 1: THEORETICAL UNDERPINNING

The theoretical framework or model underpinning SBL activity is described.

- Key aspects of the theory/model to be applied to SBL are identified
- Behavourism (deliberate practice, actionable feedback)
- Social Learning Theory (self-efficacy)
- Constructivism (experiential learning, reflective practice, situated learning, transformative practice)
- Considerations: teachers as facilitators to guide and support
- Learning by doing
- Active exploration with a life-like environment Facilitated debriefing

CONCEPT 2: INFRASTRUCTURE, RESOURCES AND GOVERNANCE

Resources and infrastructure are sufficient to support SBL activity.

- Faculty leaders identified
- Sufficient funding available
- Infrastructure fit for purpose Sustainability is considered
- What resources are required?
- What resources are already available?
- What resources need development?
- Has cost effectiveness been considered?
- Will simulation technicians be required and available?
- Are the environment, lab, rooms fit for purpose?
- Will scenarios be designed by experienced simulation designers?

CONCEPT 3: SIMULATION-BASED LEARNING ACTIVITY DESIGN

Curriculum and competency mapping is undertaken to identify gaps.

- Needs assessment undertaken in conjunction with curriculum mapping
- Learning experiences are scaffolded across the curriculum
- Students have sufficient skills required for SBL activity
- What gaps have been identified and how can SBL activities fill these gaps in learning?
- What skills will students require to complete the SBL activity? Where/when have these been taught?
- How is SBL activity complexity increased across the program?
- Have cultural and diversity aspects in scenarios been considered?

Outline clear learning objectives.

- Activities align with curriculum and course learning objectives
- Learning objectives are measurable
- Learning domains are identified: psychomotor and/or cognitive and/or affective
- Do the activities match the learning objectives?
- Do the learning objectives guide the SBL activities?
- Are the learning objectives relevant to professional and industry requirements?

Student preparation.

- Students are adequately prepared for SBL activity
- A student pre-briefing/orientation session is conducted
- The professional standards expected of students throughout the SBL activity are clearly outlined
- Is there sufficient information prior to the SBL activity to prepare students?
- Has adequate time been allowed for in SBL design?
- Does the pre-briefing include overview of the learning objectives, SBL structure, activity timing, SBL environment, any technological requirements?
- Have professional standards and student expectations been clearly articulated?

Fidelity/realism.

- The level of fidelity required to meet learning objectives is considered
- Is the SBL based on reality?
- Is the SBL linked to real-practice and the
- workplace?
 Does the environment represent reality?
 Are the patient medical files and charts (electronic or hard copy) presented to replicate real practice?

Teamwork/IPL (interprofessional learning).

- Learning objectives specific to teamwork/ interprofessional practice are measurable
- Do the activities match the learning objectives inrelation to IPL?
- Does the debrief include reflection and discussion around IPL learning objectives?

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CONCEPT 3: SIMULATION-BASED LEARNING ACTIVITY DESIGN... Cont'd.

Feedback.

- Feedback is provided immediately to students
- Is immediate feedback provided?
- Is the feedback related to the learning objectives?
- Who is providing the feedback student to student, facilitator to student?
- Suggested Tools: Plus/Delta Model

Debrief.

- A structured debrief is incorporated into SBL design
- Does the debrief session take place immediately after the activity?
- Does the debrief encourage students to reflect on their practice, self-evaluation and feedback on their perceptions of the experience?
- Does the debrief session relate to the learning objectives?
- Suggested Tools:
- SHARP Method
- PEARLS (Promoting Excellence And Reflective Learning in Simulation)
- 3D Model of Debriefing Defusing, Discovering, and Deepening

Reflection.

- Guided student reflections are embedded to enhance learning
- Will the students' reflections be oral or written?
- How will students be supported and guided to reflect?
- Will the facilitators be required to reflect on their performance?
- Suggested Tools: Lasater Clinical Judgment Rubric (LCJR)

Deliberate practice/ Mastery.

Deliberate practice opportunities are provided

- Does the activity include opportunities for deliberate practice?
- Has this been articulated to students?

Pilot activity.

Pilot the activity prior to implementation

- Is a pilot activity feasible?
- Can aspects of the activity be piloted tested prior to implementations?
- Suggested Tools: PDSA approach?

Engages students.

- Active learning is embedded
- Are all involved- active participants vs observers?
- What activities can the observer complete to remain engaged?
- Has group size been considered?

CONCEPT 4: TRAINING

SPs (Simulated Participant).

SP training is provided

- Does the training cover all the key aspects of the activity? Provide details of activity structure, learning objectives, role and scenario, feedback requirements, sample of SP scenario.
- Are the SP expectations explicated stated?

Facilitators and faculty staff.

Facilitator training is provided

- Are facilitators suitably qualified? Prof. qualifications,
- Teaching using simulation, Interprofessional facilitators
- Facilitator understanding of the learning objectives?
- Understanding of the students' current knowledge?
- Have facilitators received sufficient training in facilitation and debriefing?

CONCEPT 5: ASSESSMENT & EVALUATION

SBL activity evaluation.

- Quality improvement evaluation undertaken
- Have all aspects of the activity been evaluated?
- Does the evaluation include student satisfaction and/or self-confidence considerations?
- Has adequate time be allocated for students to complete evaluations?
- Suggested Tools: SDS- LI, SDS-ADE

Student assessment.

- Assessment requirements are considered and articulated - Formative vs Summative
- What aspects of learning will be assessedknowledge, skills, critical thinking, teamwork etc
- What will be formatively assessed?
- What will be summatively assessed?
- Is high-stakes assessment involved? Has this been articulated to students?
- Will the assessments be undertaken before, during or after the activity?

CONCEPT 6: CONTRIBUTE TO SBL RESEARCH

Research contribution.

- The research contribution of this activity has been considered
- Have possible research questions been considered? Who will lead the research?
- Is research ethics approval required? How will research results be disseminated?

CONCEPT 7: Safety (physical, psychological, environmental)

Safety considerations.

- Psychological safety is considered
- Environmental safety is considered
- What risks are there to the students?
- What risks are there to the SPs?
- What risks are there to the facilitators?
- Are the simulation resources confidential? If so, has this been communicated to students and facilitators?

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