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Introduction

Geoffrey Norman (Wallace 1997). People who are the same for every student encounter. This termithe patient's situation can be made fundamentally original term 'simulated' to reinforce the fact that SP. The term 'standardised' eventually replaced the early 1960s, followed by simulated patients in the not the patient, are termed a standardised participant realthcare members in a clinical situation, who are portraying parents or relatives of a patient, or other nology is attributed to Canadian psychometrician and, in good medical acronym fashion, came the term dents, they came to be known as standardised patients 1970s. When used for assessment of medical stu-Initially they were called programmed patients in the have come under many names for over 40 years. ay people who have been trained to portray patients

Barrows 1993



 A standardised patient is always simulating, but a simulated patient is not always standardised

dardised participant. In this chapter, SP will be used interchangeably to mean standardised patient, simulated patient or stan-

questions about medical, surgical and social histories cal experience with real patients. By learning through the curriculum has been integrated by students ready level students, assuring that what has been taught in take a patient history and perform a physical exam in a and faculty are able to see how students practically use realistic SP scenarios, they increase their experience in a systematic way. SPs are also helpful with upper structured and efficient manner. Students learn to ask their new knowledge. With SPs, students can learn to with real patients. Medical students often lack cliniand examination skills in preparation for interactions ung students who are developing their interviewing SPs are particularly useful for teaching begin-

In what areas of your curriculum would SPs proficiency's enhance a student's understanding and

What can an SP do?

carefully coached to simulate an actual patient so "An SP is defined as a person who has been by a skilled clinician" accurately that the simulation cannot be detected

student in the form of verbal feedback or by filling sistent and believable way. An SP can be trained to The SP can replay a case over and over again in a confindings in an examination, and give feedback to the give information on a patient case, display physical

to schedule them as needed. can be difficult to find real patients with the diseases ting. This accurate reflection of their actions, decisions cases. An added benefit of using SP cases is the ability guarantees that students study the preferred patient and behaviours has been thoroughly researched and valto observe them as they interview or examine a patient a medical interview or physical exam in a correct way is and findings necessary for students to see, using SPs idated by many professionals (Barrows 1993). Since it same way with an SP as they do in the actual clinic set-Any student who works with patients will behave in the The best way to see if a medical student can perform

for any information that is needed in the case. They record an encounter on a written checklist, recalling can have examinations performed on them including what happens and stating factually what they have formed daily. An SP can be trained to successfully attention should be given to how many exams are per-There is special training for those exams, and special breast, pelvic and male genitourinary examinations experienced. In their written recording, they are not SPs can give information and also be scripted to ask

but cannot make a judgment about what the student the student placed the stethoscope during the exam, heart exam, the SP can record on a checklist where able to address the medicine behind any procedure performed during the encounter. For example, in a

on a student's degree of caring or lack of eye contact, with the student. For example, the SP can comment based on his/her experience during the encounter heard or diagnosed in regard to heart disease. The SP can also score a communication checklist

able on schedule. In addition, using SP cases is: clinical content and assurance that patients are availbased on the SP's experience during the encounter. In general, the use of SPs allows faculty control of

- Convenient available anytime, any place
- Reliable cases are standardised and reproducible
- Valid comparable to real patients
- Controllable faculty can adjust the learning
- Realistic faculty can integrate psychosocial issues into a case
- Corrective learner can receive feedback Practical – learners can practice invasive exams
- situations they are not ready to manage alone Repeatable - learners can rehearse clinical (pelvic or breast exams)
- Measurable learners' performances can be
- Safe limits inconvenience, discomfort or potential harm to real patients
- Efficient may provide a longitudinal experience in a compressed time frame and reduce time demands on physician teaching faculty.

to evaluate how they actually work with patients in world as well as other healthcare educational propatients can benefit from working with an SP in order Any healthcare team member who interacts with grammes including pharmacy, nursing and dentistry. SPs are used in many medical schools around the

tution's SP educator can save time and make case and curriculum development a much easier process. able resource is already available. Contacting the insti-If an institution has an SP programme, then a valu-

ease state from diagnosis to treatment and follow-up. reasoning and can take a student through an entire disexamine a patient. It is also helpful to teach clinical communicate with a patient or family member, and teach medical students how to conduct an interview, it is still worth the time and effort to use an SP to 2 months or longer. This can all be completed in 2 hours instead of 2 weeks, If the institution does not have an SP programme,

What kind of patient cases would translate to SP

methodology?

How to use an SP

bours, and family members who are interested in the programme's success are often a good initial source for understanding of medical knowledge. Friends, neigheasily be trained to portray cases without having an ously. People outside of the medical profession can know the SP, whether a colleague or the staff secrethat this work is educational. The use of people from outside the institution creates a better outcome of tary, they are less likely to take the simulation seria realistic encounter for the learner. When students find people who are intelligent and can understand well trained and dependable SPs. It is necessary to programmes start small and gradually build a pool of always easy. Recruitment requires imagination! Most Finding a person who becomes a successful SP is not

Other reliable SPs have been homemakers, students of education, not theatre. they must clearly understand their role is in the field strictly about education. When actors are hired as SPs This work is not about their ego or applause, but it is actors. There is a caution to take when using actors. club members, part-time teachers, waiting staff, and in undergraduate non-medical programmes, health SPs because they understand educational objectives. Retired teachers and educators make excellent

 A good SP is intelligent and can understand that SP work is about education not entertainment.

seems to be especially true for cases involving psyadvert requests psychiatric cases, this is very often. chiatric issues, when the applicant responding to the the most mentally stable or reliable employees. This advertising for 'fake or pretend' patients are often not response to recruitment. People who respond to Advertising in local papers can produce an adverse near elevators in hospitals and clinics. When special more formal approach is needed, place small posters uals with whom they would like to work. When a persons, approach schools or assisted living facilities. populations are needed, like adolescents or elderly the word about the programme and recruit individ-Once there is a core group of SPs, they will spread

primary importance: When recruiting SPs, these characteristics are of

- appropriate for role (age/gender/physical
- accurate (on time, every time)

accessible (by telephone, e-mail)

- able to accept/use constructive feedback/criticism
- able to maintain confidentiality

role in that portrayal. At the first training, give the SP Schedule the first training approximately 2 weeks before few days to study the material independently. edge of the case. After the first training, allow the SP a the patient; this is a good way to reinforce their knowlabout who the character is and what he/she knows about small bites. Ask the SP to write down everything said During training, an SP should be given information in a brief orientation to the activity and describe the role. tion of the case being portrayed and the SP's educational ing sessions, with the first session covering an introducthe event. It is suggested that the SP have multiple train-

tice a sufficient number of times to ensure accuracy. trainer. During this second training, the SP should practhe checklist. When confident, the SP should practice to enter/exit. Allow the SP to experience each item on the encounter under the observation of the author or the SP feel where he/she will be in the room and where ical encounter if there is one associated with the case. Let cational components of the case such as checklists and tions about the case and introducing the SP to other edufeedback processes. Next, walk the SP through the phys-The next training will consist of answering any ques-

reflect on and self-assess their performance. ules. Students can review their encounters privately to can review the recordings based on their own schedcapture an A/V recording of the SP/student encounprogress in portraying the encounter. The ability to recording play back to the SP will validate his/her student encounters. Showing an audio/visual (A/V) case to see how it will flow during teaching or testing needed. Allow the case author to see the dry-run using spective and to make small adjustments to the case as experience the encounter from the student's peror dry-run, of the case allows the medical faculty to in a consistent and reliable way. A final run-through, the case repeatedly until the SP is portraying the case ters makes this methodology very efficient. Faculty and, if necessary, adjusted by the faculty prior to the an upper level student with no prior knowledge of the This dry-run also allows the checklist to be clarified A third and fourth training will be used for running

General training tips for SPs include: ing is that the SP will be so carefully coached that the simulation cannot be detected by a skilled clinician Kemember that the overarching goal of SP train-

- Dress the part Make sure you are dressed just such as bags, purse, shoes, etc. like the patient might be with the same props,
- Don't answer before question is finished (telegraph information)

- Speak slowly
- Use conversational style when appropriate don't sound like a robot only spitting out checklist items as if reading
- asked (don't volunteer information) Only answer the questions that you have been
- Answer question by using the checklist item as with recall. ('No, I am not on any medications.' your statement, not just yes or no. This will help
- Pay attention to your body language.

Teaching with an SP

Teaching students to work with SPs

rass both the SP and the learner. SP out of role. This is unprofessional and will embaror personal relationship to the simulation. SPs will not exactly as a real person who has either a professional The key to interacting with SPs is to relate to them interrupt a learner during an encounter, nor will they volunteer any information unless directed to do so. Learners should not attempt to communicate with an

are very simple. the 'time-in/time-out' format is used. The guidelines When SPs are used in small group teaching sessions

- Imagine that the SP is sitting in a clinic room the group until addressed as a real patient. waiting to be seen. The SP will not acknowledge
- him or herself and eliciting the reason for the visit One student begins the interview by introducing If the student in the encounter becomes (or the chief complaint).
- into suspended animation and act as if waiting for uncomfortable or does not know what to say, he/ he/she will call 'time-in' the doctor. When the student is ready to resume, she can signal by saying 'time-out'. The SP will go
- is not the time for a lecture or lengthy discussion. The student can ask for help in 'time-out', but this
- If a preceptor needs to correct a student or to she may also call 'time-out'. emphasise something the student has done, he/
- Only the facilitator or student in the encounter can call 'time-out'.
- Once all the students who wish to interview the student who participated in the encounter. SP to step out of role and give feedback to each patient have done so, the preceptor will ask the

Teaching associates (TAs)

own bodies. SPs facilitate 'hands on' teaching of to teach physical examination manoeuvers on their These are professional patients who have been trained

a physician on hand during these exams to answer any is a technique and not medicine. It is helpful to have medical questions that might arise. will need to be reminded that what they are teaching how they will communicate with the student. They should be done. Coaching is also very important for physicians in order to teach exactly how these exams TAs need to have careful training and coaching by also serve as expert recorders in testing situations. ward first-time exams more comfortable. They can enhances the learning process. TAs can make awking for patient comfort, and this immediate feedback such as appropriate palpation pressures and sequencspecific guidance about examination techniques, fort, or potential harm to real patients. TAs provide clinical skills while avoiding inconvenience, discom-

Feedback and debriefing

in the exam room and forgot my name, I felt angry. give constructive feedback based on how they feel duredge. An example of this might be, When you walked tion level and not about the student's medical knowlthis, I felt this' keeps the feedback on a communicaing the encounter. Using the model, 'When you did Students should receive immediate and constructive feedback at all levels of training. A well trained SP can



Using the patient's unique perspective, the SP can cell the student what the physical exam actually felt like and how well the student communicated.

part of the simulation (Schwid et al 2001). fresh and it is easy to demonstrate a key point or repeat giving feedback, or clarifying information. In most teachstudent encounter. A debriefing process with the faculty SP develop feedback skills that can work with almost any Practicing this with the SP during the training will help the immediately after the simulation, while the experience is ing simulation, we recommend debriefing participants facilitator should guide the process by asking questions, about the SP experience. A faculty member or trained helps students learn by reflecting, analysing, and talking

Testing with an SF

nsuring accinacy

item is 'I only take a baby aspirin and a multivitamin list item. Writing a simple checklist guide for the SP is the checklist and what responses elicit each check-When SPs are used for testing, consistency and accueach day, nothing else', you might list the questions a will help with accuracy. For example, if the checklist same person in their encounter. Important to each case way so that each student would describe the exact racy are much more important than for a teaching session. SPs must portray each encounter in a consistent

> student would ask to get that checklist item correctly SP in order for the SP to consistently and accurately be take?' or 'Are you on medication right now?'. The case kind of pills regularly?', 'What kind of drugs do you such as 'Are you on medications?', 'Do you take any writer should be the one to give the guidelines to the able to answer questions in a standardised way.



We can standardise the patients but not always the student

Considera ions

watches a replay of the encounter. The case author and a checklist whenever he/she watches an encounter or sider replacing them or have the SP do more training. anyone helping with the case should complete a checklist accuracy, have the SP portraying the case fill out Testing also requires more SP training than teaching agreed upon. If an SP cannot consistently score, consistent scores of checklist items can be discussed and list as well so that comparisons can be made and inconmore than one dry-run training needed. To insure checkrecall of the checklist item. For testing, there may be and no to questions does not make for easy scoring or they are portraying the patient. Simply answering yes make sure complete checklist items are spoken when checklist is introduced in the first or second training and encounters. When using SPs for testing, make sure the

simulation Hybrid or multimodality

communication that make the encounter more holistic only team communication but the family centered care crisis situation. The learning objectives now include not to the crisis provides a richer, more complex encounter and how a medical team reacts in a crisis. Adding the SP to consider when adding a SP to a simulation encounter makes it reproducible for multiple learners. Some things a movement towards patient and family centered care, sented in healthcare encounters. These SPs may portray SPs represent the wide variety of roles that are reprebad news to the family about what happened during the for the team. For example, the team may need to deliver with a manikin are the level of emotion the encounter will scenario increases and standardisation of the simulation there can be many players in the exam room and hosting. This is especially true in paediatric hospitals. With patient's friends and family (Monaghan 1997). Many nurses, physicians, allied health professionals, and/or the dents. Manikin simulation often relates to crisis situations have and what kind of feedback the SP will give to stupatients are not alone when they come into a hospital setnigh-fidelity simulation using manikins, the realism of a pital setting. When SP methodology is integrated into

> the SP being stuck or harmed can be avoided by paying Examples of this include seating an SP behind a pelvic SP's arm or leg for wound care or injections. The risk of can include using simulated skin tissue strapped to an as it is being done. Other possible hybrid simulations procedure and talk the patient through the procedure SP to the model. The student must then perform the trainer or catheterisation model and then draping the done by putting the SP and task trainer together so that the task trainer becomes an extension of the SP's body tice both clinical procedures and patient communication skills (Kneebone et al 2002). This technique is partial task tráiners with SPs so that students can prac-Another use of hybrid simulation is to incorporate

Summary

special attention during the encounters.

using manikin, and video portrayals. Students generally sessions, physical examinations, high fidelity simulation While SPs do not replace real patients in the curriculum tion. An institution with a strong SP programme allows its standardised patients into any kind of simulation educacreative minds can always find new ways to incorporate cally given from the patient's perspective. Imaginative and SP can provide valuable feedback that is more authentithey provide a dynamic educational resource for a safe and ful tool for clinical demonstrations, interactive small group supportive medical learning environment. They are a useaculty to expand curriculum and enhance teaching respond well to experiences with SPs, and a well trained

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