

Building Pathways to Health Careers for High School Students of Color



SIMULATION:
BRINGING LEARNING TO LIFE

#IMSH2021

WELCOME



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Disclosures

- Kati Maxkenzie is faculty for the California Simulation Alliance

Objectives

1. Describe a large hospital-based pipeline department's integration of simulation to train community members;
2. Compare and contrast using a toolkit about different programming and curriculum options for community trainings; and
3. Formulate a SWOT analysis for community training opportunities at the learner's own simulation program.

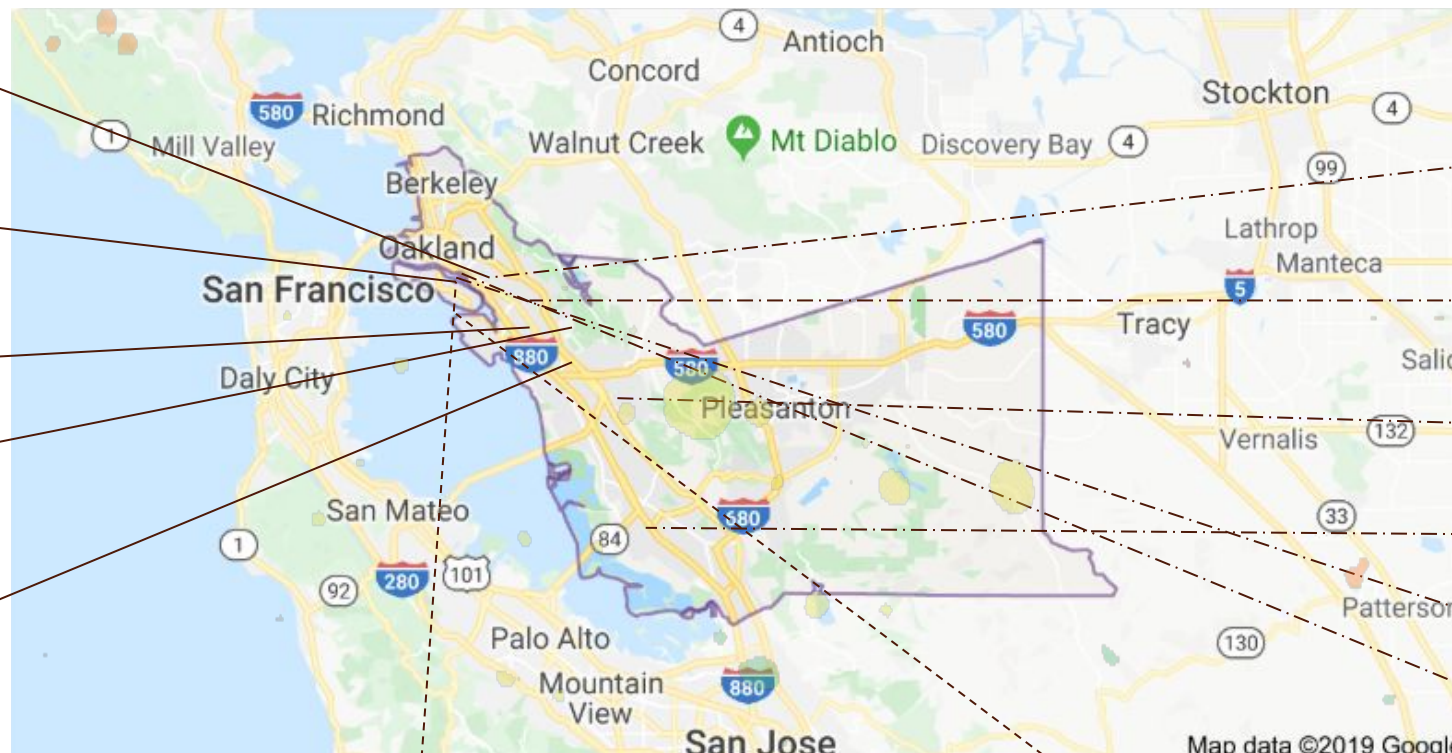
What Is A Pipeline Program?

- An opportunity for young people from diverse backgrounds to gain exposure to a career path or paths that they may otherwise have not considered;
- Students gain exposure to the breadth of healthcare careers through mentorship, hands-on experiences, job shadowing, and a curricula component;



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HOSPITAL**

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HEALTH SYSTEM** | Creedon Advanced
Wound Care

 **ALAMEDA
HEALTH SYSTEM** | Marina Wellness &
Surgical Associates

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HEALTH SYSTEM**

Park Bridge
Rehabilitation and Wellness

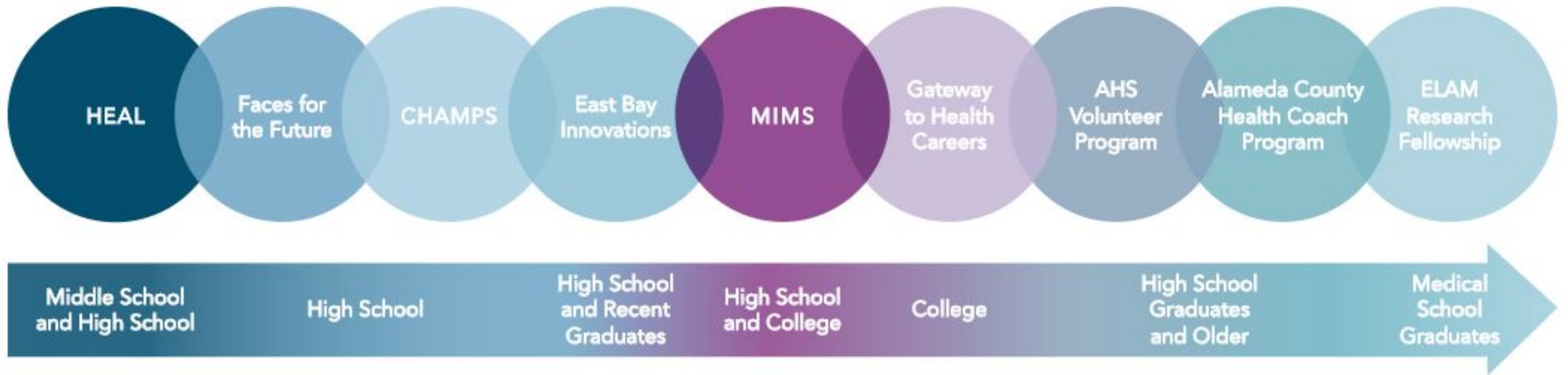
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South Shore
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AHS HealthPATH Program



AHS HealthPATH Program



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3 Simulation Rooms
2 Debrief Rooms
2 Control Rooms

40% of Learner's Are
Community Members

2,500 ft² / 230 m²

~9,000 Contact Hours

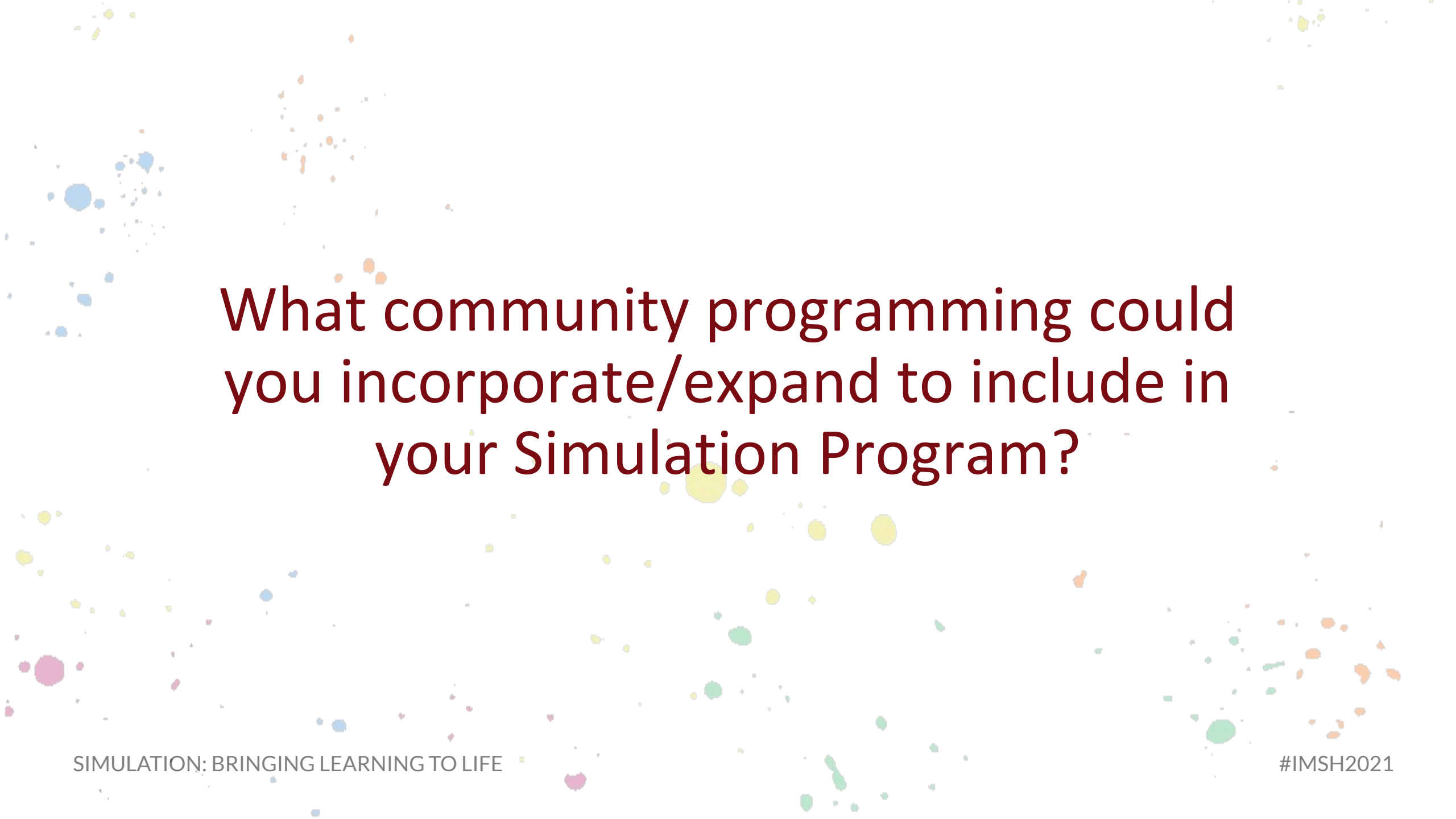


30%
Interprofessional
Education

>2,600 Learner Interactions

1.0 FTE Simulation Center Manager
1.0 FTE Simulation Center Specialist
0.25 FTE Medical Director of Simulation

AHS Simulation Center



What community programming could
you incorporate/expand to include in
your Simulation Program?

Considerations of Integrating Simulation For Community Workforce Training


| Lead Organization | Type of Program | Duration | Frequency | Learner | Learner Level | Size of Cohort | Resources | Recruitment - Learner | Facilitators |
|-------------------------------------|-----------------|-----------|-----------|------------------------------------|---|---------------------------------|--------------|--------------------------------|----------------------|
| Internal | In-School | Once | Weekly | Middle School | Beginner (First Introduction to Healthcare) | Small Group (Limited Resources) | Space | School District | Volunteer vs. Paid |
| Partnership w/external Organization | After-School | Recurring | Monthly | High School & Continuing Education | Intermediate (Some Healthcare Knowledge) | Large Group (Many Resources) | Facilitators | Workforce development programs | Organization Staff |
| External | Summer | | Semester | College | Advanced (Previous Healthcare Knowledge) | | Scheduling | Universities | Community Partners |
| | | | Yearly | Post-College | | | Curriculum | | Healthcare Community |
| | | | | Fellowship | | | Costs | | |
| | | | | Volunteer Programs | | | Equipment | | |

Programs Utilizing Simulation

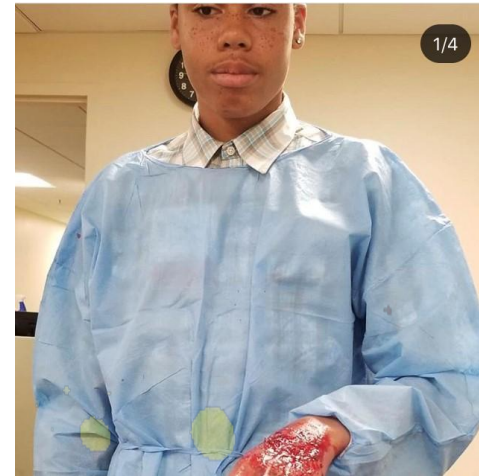
| Program | Duration | Occurrence | Type | Grade Level | Compensation | # of Learners | # of Sim Experiences |
|-----------------------------|-------------|------------|--------------------|-----------------------------|--------------|---------------|----------------------|
| HOME-BASED PROGRAMS | | | | | | | |
| Pathfinders | 12-14 weeks | 2x/year | In School | 11th & 12th | Non-paid | ~20 | 2 |
| Navigators | 12-14 weeks | 2x/year | In School | 12th | Non-paid | ~20 | 2 |
| Career Explorers | 12-14 weeks | 2x/year | After School | 9th - 12th | Stipend | ~24 | 4 |
| Investigators | 12-14 weeks | 2x/year | After School | 9th - 12th | Stipend | ~24 | 4 |
| Summer Intensive | 5 weeks | 1x/year | Summer | 11th | Stipend | ~30 | 5 |
| Summer Young Men of Color | 2weeks | 1x/year | Summer | 9th - 12th | Stipend | ~15 | 2 |
| Summer College Internship | 10 weeks | 1x/year | Summer | Undergraduate & Post-Bacc | Stipend | ~10 | 2 |
| ELAM Fellows | 12-14 weeks | 1x/year | Fellowship | Post-Med School | Stipend | ~4 | 1 |
| Physiology- Sim Only Cohort | School Year | 4x/year | In School | 10 th | Non-paid | ~65 | 4 |
| Career Exploration Visit | 1-day | 6x/year | In School & Summer | 9th - 12th | N/A | ~35 | 1 |
| Career Awareness Visit | 1-day | 6x/year | In School | 8th | N/A | ~15 | 1 |
| AFFILIATE PROGRAMS | | | | | | | |
| MIMS | 1-day | 6x/year | In School & Summer | High School & Undergraduate | N/A | ~15 | 1 |
| CHAMPS | 8 weeks | 3x/year | In School | 11th & 12th | Non-paid | ~4 | 1 |

Sample HealthPATH Schedule

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|----------|--|---|--|---|---|
| 9:00 AM | | | | | Career Exploration Visit (9:00 am - 1:30 pm) |
| 9:30 AM | | | | | |
| 10:00 AM | | | | | |
| 10:30 AM | | | | | |
| 11:00 AM | | | | | |
| 11:30 AM | | | | | |
| 12:00 PM | | | | | |
| 12:30 PM | | | Pathfinders Cohort (12:30 - 3:00 pm) | | |
| 1:00 PM | | Navigators Cohort (1:00 - 3:30 pm) | | Navigators Cohort (1:00 - 3:30 pm) | |
| 1:30 PM | | | | | |
| 2:00 PM | Pathfinders Cohort (2:00 - 3:30 pm) | | | | |
| 2:30 PM | | | | | |
| 3:00 PM | | | | | |
| 3:30 PM | | | Investigators Cohort (3:30 - 6:00 pm) | | |
| 4:00 PM | Investigators Cohort (4:00 - 6:00 pm) | Career Explorers Cohort (4:00 - 6:00 pm) | | Career Explorers Cohort (4:00 - 6:00 pm) | Career Awareness Visit (4:00 - 6:00 pm) |
| 4:30 PM | | | | | |
| 5:00 PM | | | | | |
| 5:30 PM | | | | | |
| 6:00 PM | | | | | |



What are your considerations for incorporating community programming?



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Case Study

| Prior to Simulation Center | After Simulation Center Integration |
|--|--|
| 5 week, full time, high school (11 th grade) summer internship | 5 week, full time, high school (11 th grade) summer internship |
| Team Building, Workshops (Didactic/Skills), Department Shadowing, Guest Speakers, Fieldtrips, Certifications | Team Building, Workshops (Didactic/Skills), Weekly Simulations , Department Shadowing, Guest Speakers, Fieldtrips, Certifications |
| <p><u>Monday – Thursday</u></p> <p>AM – Team Building/Didactic/Skills/Or Guest Speakers PM – Department Shadowing/Guest Speakers</p> <p><u>Friday</u></p> <p>Fieldtrips/Certifications</p> | <p><u>Monday</u></p> <p>AM – Team Building/Didactic/Skills/Or Guest Speakers <u>PM – Simulations/Workshops</u></p> <p><u>Tuesday – Thursday</u></p> <p>AM – Team Building/Didactic/Skills/Or Guest Speakers PM – Department Shadowing/Guest Speakers</p> <p><u>Friday</u></p> <p>Fieldtrips/Certifications</p> |
| Convenience Workshop Scheduling | Themed Workshop Scheduling |
| | Increased Pre-learning before Department Shadowing |
| | Increased Context Setting for Department Shadowing |

Sample Summer Schedule

| Monday | | Tuesday | | Wednesday | | Thursday | | Friday | |
|-------------|-------------|---------------|---------------|---------------|-----------------|---------------|-----------------|---------------|-------------------|
| Week 1 | | | | | | | | | |
| | | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Field Trip |
| | | 9:30 - 11:00 | Orientation | 9:30 - 11:00 | Orientation | 9:30 - 11:00 | Orientation | 9:30 - 11:00 | |
| 1:00 - 1:30 | Name Game | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | |
| 1:30 - 4:00 | Orientation | 12:00 - 4:00 | Orientation | 12:00 - 4:00 | Orientation | 12:00 - 4:00 | Intro to Sim | 12:00 - 4:00 | |
| 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | |
| Week 2 | | | | | | | | | |
| | | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Field Trip |
| | | 9:30 - 11:00 | Pop Health | 9:30 - 11:00 | SDoH | 9:30 - 11:00 | Vitals Workshop | 9:30 - 11:00 | |
| 1:00 - 1:30 | SBAR | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | |
| 1:30 - 4:00 | Simulation | 12:00 - 4:00 | Rotation 1 | 12:00 - 4:00 | Rotation 1 | 12:00 - 4:00 | Rotation 1 | 12:00 - 4:00 | |
| 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | |
| Week 3 | | | | | | | | | |
| | | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Warm Up |
| | | 9:30 - 11:00 | Health Career | 9:30 - 11:00 | EHR | 9:30 - 11:00 | Resume | 9:30 - 11:00 | STB Certification |
| 1:00 - 1:30 | Sim Prep | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch |
| 1:30 - 4:00 | Simulation | 12:00 - 4:00 | Rotation 2 | 12:00 - 4:00 | Rotation 2 | 12:00 - 4:00 | Rotation 2 | 12:00 - 4:00 | CPR Certification |
| 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection |
| Week 4 | | | | | | | | | |
| | | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Team Building | 9:00 - 9:30 | Team Building |
| | | 9:30 - 11:00 | Guest Speaker | 9:30 - 11:00 | Career Research | 9:30 - 11:00 | Career Research | 9:30 - 11:00 | Career Research |
| 1:00 - 1:30 | Sim Prep | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch |
| 1:30 - 4:00 | Simulation | 12:00 - 4:00 | Rotation 2 | 12:00 - 4:00 | Rotation 3 | 12:00 - 4:00 | Rotation 3 | 12:00 - 4:00 | Rotation 3 |
| 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection |
| Week 5 | | | | | | | | | |
| | | 9:00 - 9:30 | Warm Up | 9:00 - 9:30 | Warm Up | 9:00 - 9:30 | Warm Up | 9:00 - 9:30 | Warm Up |
| | | 9:30 - 11:00 | Workshop | 9:30 - 11:00 | Career Planning | 9:30 - 11:00 | Career Planning | 9:30 - 11:00 | Career Planning |
| 1:00 - 1:30 | Sim Prep | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch | 11:00 - 12:00 | Lunch |
| 1:30 - 4:00 | Simulation | 12:00 - 4:00 | Rotation 3 | 12:00 - 4:00 | Rotation 3 | 12:00 - 4:00 | Rotation 3 | 12:00 - 4:00 | Rotation 3 |
| 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection | 4:00 - 4:30 | Reflection |

Sample Curriculum Outline

| Week | Content |
|---------------|--|
| Week 1 | Introduction to Simulation <ul style="list-style-type: none">• What is simulation• When is simulation used• Orientation to simulation space• Incorporating orientation topics to reinforce learning |
| Week 2 | Simulation – Pulmonary Embolism in Homeless Female Patient <ul style="list-style-type: none">• Patient presents in the ED complaining of shortness of breath and pain in the chest• Learners are to perform GIFT and get patient history |
| Week 3 | Simulation – Pulmonary Embolism in Homeless Female Patient <ul style="list-style-type: none">• Pt's shortness of breath worsens and pt begins to deteriorate• Learners must give oxygen, order pain medication, and order diagnostic tests |
| Week 4 | Simulation – Pulmonary Embolism in Homeless Female Patient <ul style="list-style-type: none">• Pt goes into respiratory distress• Learners must explain and perform intubation procedure• Learners must recognize pulseless pt |
| Week 5 | Simulation – Pulmonary Embolism in Homeless Female Patient <ul style="list-style-type: none">• Pt is in Code Blue• Learners must perform ACLS |

Sample Video



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Adapting Scenarios for High School Students

| Original | Adapted | | | | | | | | | | | | | | | | | | |
|---|--|---|--|---|-----------------|--|-------------------------------------|--|--|--|--|-----------------------------------|--|-----------------|--|----------------------|--|-------------------------------------|--|
| <table><tr><th colspan="2">Learning Goals & Objectives</th></tr><tr><td>Educational Goal:</td><td>To enhance resuscitation and team management skills using a pulmonary embolism case which requires difficult management decisions to be made quickly.</td></tr><tr><td>CRM Objectives:</td><td>Lead team members effectively through a challenging resuscitation.</td></tr><tr><td>Medical Objectives:</td><td><div>1) Recognize risk for PE and initiate the appropriate workup urgently.</div><div>2) Provide quality ACLS care, including:<div><div>a. Using ETCO2 to guide resuscitation</div><div>b. Minimizing pulse checks</div><div>c. Appropriate 30:2 compressions: breaths ratio</div><div>d. Appropriate use of medications (epinephrine and thrombolytic)</div></div></div><div>3) Consider the administration of thrombolytics during cardiac arrest secondary to a suspected pulmonary embolism.</div></td></tr></table> | Learning Goals & Objectives | | Educational Goal: | To enhance resuscitation and team management skills using a pulmonary embolism case which requires difficult management decisions to be made quickly. | CRM Objectives: | Lead team members effectively through a challenging resuscitation. | Medical Objectives: | <div>1) Recognize risk for PE and initiate the appropriate workup urgently.</div> <div>2) Provide quality ACLS care, including:<div><div>a. Using ETCO2 to guide resuscitation</div><div>b. Minimizing pulse checks</div><div>c. Appropriate 30:2 compressions: breaths ratio</div><div>d. Appropriate use of medications (epinephrine and thrombolytic)</div></div></div> <div>3) Consider the administration of thrombolytics during cardiac arrest secondary to a suspected pulmonary embolism.</div> | <table><tr><th colspan="2">Learning Goals & Objectives</th></tr><tr><td colspan="2">**Maximum of 5 total objectives**</td></tr><tr><td>Education Goal:</td><td>Practice communicating with a patient while assessing and treating their deteriorate condition. Recognize a medical emergency.</td></tr><tr><td>Clinical Objectives:</td><td><div><div>• Patient Assessment</div><div>• Clinical Skills such as blood draws, EKG, and CPR</div></div></td></tr><tr><td>Teamwork/ Communication Objectives:</td><td><div><div>• Practice GIFT</div><div>• Practice SBAR</div><div>• Role Designation</div></div></td></tr></table> | Learning Goals & Objectives | | **Maximum of 5 total objectives** | | Education Goal: | Practice communicating with a patient while assessing and treating their deteriorate condition. Recognize a medical emergency. | Clinical Objectives: | <div><div>• Patient Assessment</div><div>• Clinical Skills such as blood draws, EKG, and CPR</div></div> | Teamwork/ Communication Objectives: | <div><div>• Practice GIFT</div><div>• Practice SBAR</div><div>• Role Designation</div></div> |
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| Learning Goals & Objectives | | | | | | | | | | | | | | | | | | | |
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| Clinical Objectives: | <div><div>• Patient Assessment</div><div>• Clinical Skills such as blood draws, EKG, and CPR</div></div> | | | | | | | | | | | | | | | | | | |
| Teamwork/ Communication Objectives: | <div><div>• Practice GIFT</div><div>• Practice SBAR</div><div>• Role Designation</div></div> | | | | | | | | | | | | | | | | | | |
| <table><tr><th>Case Summary: Brief Summary of Case Progression and Major Events</th></tr><tr><td>A 46 year old male with a cast on his left leg from a bad ankle fracture presents to the ED complaining of pleuritic chest pain and shortness of breath. The team will take a history and start workup when the patient will suddenly state he's "not feeling well" and then arrest. The team will perform ACLS consistent with the PEA algorithm and should consider IV thrombolytics. If IV thrombolytics are administered, the patient will have ROSC.</td></tr></table> | Case Summary: Brief Summary of Case Progression and Major Events | A 46 year old male with a cast on his left leg from a bad ankle fracture presents to the ED complaining of pleuritic chest pain and shortness of breath. The team will take a history and start workup when the patient will suddenly state he's "not feeling well" and then arrest. The team will perform ACLS consistent with the PEA algorithm and should consider IV thrombolytics. If IV thrombolytics are administered, the patient will have ROSC. | <table><tr><th colspan="2">Case Summary: Brief Description of Case Flow & Major Events</th></tr><tr><td>Week 1: Introduction to Simulation</td><td>Week 4: Patient requires intubation</td></tr><tr><td>Week 2: Patient presents to the ED complaining of shortness of breath and pain in the chest. Learners are to perform GIFT and get Patient History.</td><td>Week 5: ACLS</td></tr><tr><td>Week 3: Patient SOB worsens, begins to deteriorate</td><td></td></tr></table> | Case Summary: Brief Description of Case Flow & Major Events | | Week 1: Introduction to Simulation | Week 4: Patient requires intubation | Week 2: Patient presents to the ED complaining of shortness of breath and pain in the chest. Learners are to perform GIFT and get Patient History. | Week 5: ACLS | Week 3: Patient SOB worsens, begins to deteriorate | | | | | | | | | |
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Adapting Scenarios for High School Students

Original

| Scenario States, Modifiers and Triggers | | | |
|--|--|--|---|
| Patient State | Patient Status | Learner Actions, Modifiers & Triggers to Move to Next State | |
| 1. Baseline State Rhythm: HR: 115/min BP: 95/60 RR: 18/min O ₂ SAT: 92% RA T: 37.2°C | A+O. Complaining of pleuritic CP and SOB. | Learner Actions <ul style="list-style-type: none">IV, O₂, monitorsECGCardiac blood work, D dimerHistory and PhysicalOrder CT chestCardiac U/S for RV strain | Modifiers <i>Changes to patient condition based on learner action</i> Triggers <i>For progression to next state</i> - 2 min → 2. PEA Arrest |

| Sample Questions for Debriefing |
|---|
| <ol style="list-style-type: none">How did it feel to lead the team through this resuscitation? How did it feel to make the hard call on thrombolytics?How did the team feel about the way the leader approached the thrombolytics option?What are markers of quality arrest care?What are the indications for thrombolytics in PE? |

Adapted

| Scenario States, Modifiers and Triggers | | | |
|--|--|---|---|
| Please complete ALL sections as they must be programmed into the computer (even if 0 or WNL) | | | |
| Initiation of Scenario: Patient is in the ED. She is intubated and went pulseless immediately after successful intubation. Last Vitals: HR: VF, O ₂ : 90% | | | |
| Patient State | Patient Status/ Voice | Learner & Clinician Actions & Triggers | |
| 1. Group 1 Rhythm: PEA HR: 70/min Pulse: N O ₂ SAT: 90% CO.: BP: 0/0 RR: 0/min T: 38.6°C | Team Roles - Bagging – RT - Handoff to Code Blue TL then 2nd Compressor – R1 - Code Blue Team Leader – R2 - Compressor – ED Tech - Code Cart – RN | Learner Actions <ul style="list-style-type: none">Practice GIFT - ALLGive SBAR Handoff to Code Team – R11 breath every 6 secs – RTHigh quality CPR – R1/ED TechCode TL Follow ACLS – R2Defibrillate – RNPulse Check – R2IO Access – R1Epi – RN | Clinician Actions Enter with learners & perform GIFT. - Guide learners through hand off to Code Blue Team – 1st Epi Triggers <i>For progression to debrief</i> - Learner actions completed |
| 1. Group 2 Rhythm: PEA HR: 70/min Pulse: N O ₂ SAT: 90% CO.: BP: 0/0 RR: 0/min T: 38.6°C | Team Roles - Bagging – RT - Handoff to Code Blue TL then 2nd Compressor – R1 - Code Blue Team Leader – R2 - Compressor – ED Tech - Code Cart – RN | Learner Actions <ul style="list-style-type: none">Practice GIFT - ALL1 breath every 6 secs – RTHigh quality CPR – R1/ED TechCode TL Follow ACLS – R2Pulse Check – R2Defibrillate – RNAmn – RNEpi – RN | Clinician Actions Enter with learners & perform GIFT. - Guide learners through Code Blue to ROSC. Triggers - Proceed to ROSC after Epi Given by Group 2 |

| Sample Questions | |
|---|--|
| Debrief Group 1 | Debrief Group 2 |
| <ul style="list-style-type: none">What is our initial assessment of the patient? How sick are they (unstable/watch/stable)?Do we have enough information to treat the patient? If not, what else do we need to know?<ul style="list-style-type: none">What is an IO?Electrical vs Drug?What did the group do well?What could be done differently? | <ul style="list-style-type: none">What is our initial assessment of the patient? How sick are they (unstable/watch/stable)?Do we have enough information to treat the patient? If not, what else do we need to know?<ul style="list-style-type: none">Causes of cardiac arrest?Next Steps?What did the group do well?What could be done differently? |

Lessons Learned

- Use plain language -- break down jargon
- Give guidance to facilitators/clinicians
- Use prewritten curriculum and adapt to your learners
- Start small
- Set ground rules with your learners – especially around equipment use and professionalism
- Classroom behavior management strategies are different for younger learners

SWOT Analysis

| | Advantages | Challenges |
|----------|---------------|------------|
| Internal | Strengths | Weaknesses |
| External | Opportunities | Threats |

AHS SWOT Analysis

| Strengths | Weaknesses |
|--|--|
| <ul style="list-style-type: none">• Established pipeline department;• Established buy-in in | <ul style="list-style-type: none">• Staff availability;• Fatigue of staff;• Ongoing funding. |

What are your Simulation Program's strengths, weaknesses, opportunities, and threats?

| | |
|--|--|
| <ul style="list-style-type: none">• large area both economic and geographic making for a large recruitment pool – school districts, nonprofits, etc.;• Rich pool of community partners; | <ul style="list-style-type: none">• Partnering with schools that have impacted staff;• Students ability to commute. |
|--|--|

QUESTIONS?

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Kati Maxkenzie - kmaxkenzie@alamedahealthsystem.org

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Building Pathways to Health Careers for High School Students of Color

THANK YOU!



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