Ethics in Technology

Check Your Understanding

Ethics in Technology

✓ Evaluate your learning by completing the following knowledge check items.

Checkboxes

1/1 point (ungraded)

An electronic health record (EHR) allows patient information to be shared immediately with other healthcare providers, including physical therapists and pharmacists.

Choose 2 answers.

Which two ways does an EHR mitigate threats for pharmacists?

- ☑ Reduces prescription errors based on drug interaction

- ☐ Decreases the possibility of the wrong medication being prescribed to a patient

- ☐ Decreases the possibility of a wrong dosage being taken by patients

- ☑ Reduces the amount of time to transfer prescriptions

Answer

Correct:

That's right! Electronic records can reduce the number of prescription errors using databases that can query drug interaction. That's right! Electronic records would decrease the amount of time to transfer prescriptions, getting patients their medication faster.

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Multiple Choice

1/1 point (ungraded)

A pharmaceutical company is automating the production of a vaccine to lessen the impact of a global pandemic. The application that controls the manufacturing does not have identity and access management controls.

Which existential risk exists because of the lack of controls?

- ◯ Anyone could read the formula for the vaccine.

- ◯ Anyone could turn on the production line.

- ⦿ Anyone could change the formula for the vaccine.

- ◯ Anyone could shut down the production line.

Answer

Correct: Correct! Changing the formula would be an existential risk because it could directly kill a large group of people.

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Checkboxes

1/1 point (ungraded)

Ethics in Technology

Choose 2 answers.

Which two existential threats exist because of the use of artificial intelligence (AI)?

- [x] An error in rules was not corrected.
- [ ] Too much data was provided for the vehicle.
- [ ] A limited number of people can update the rules.
- [x] Fake data could be fed to the vehicle.

Answer

Correct:

That's right! An error in a rule could cause the vehicle to behave in an unexpected manner, killing large groups of people. That's right! Fake data could cause the vehicle to behave in an unexpected manner, killing large groups of people.

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