

Pharmacology Review

Quick-Case 1

A 22 y/o M presents CA&O in NAD about 10 minutes after ingesting approximately 20 x 500mg Tylenol tablets. Your physical exam is unremarkable, and his vital signs are: HR = 82/min and regular, RR = 12/min GTV, BP = 128/78 mmHg, SpO₂ = 97% RA.

Discussion:

With your group members, please discuss and/or do the following:

- What medication(s) is indicated by the information provided in the case? **Activated Charcoal.**
- Identify that medication from the selection available to you. **Have the students pick out the tube of AC from the selection of meds.**
- Discuss the indications, contraindications, mechanism of action, side effects, preparation form, dose, and route for the medication indicated in this case. **Review information from the med info sheet.**
- For each of the medications indicated for this patient, list out the “5 Rights” as they pertain to that particular medication and this particular patient.
 - **Right Patient: In this case med is not prescribed, but is indicated.**
 - **Right Medication: make sure to check label.**
 - **Right Route: confirm oral administration.**
 - **Right Dose: 1mg/kg**
 - **Right Date: make sure med is not expired.**
- Discuss the appropriate administration technique for the medications indicated for this patient. **Review the appropriate technique for administering the medication.**

Quick-Case 2

A 64 y/o M presents C&A in obvious distress c/o CP. Pt describes an acute onset of substernal chest pn radiating to his L arm, neck, and jaw. He describes recent episodes of similar pn, but not as severe. His MD prescribed him “some little white pills to take if the pain came back”, which he produces. Your PE reveals his skin to be cool, pale, and diaphoretic. HR = 88/min and irregular, RR = 14/min GTV, BP = 134/86 mmHg, SpO₂ = 95% RA.

Discussion:

With your group members, please discuss and/or do the following:

- What medication(s) is indicated by the information provided in the case? **NTG, ASA**
- Identify that medication from the selection available to you. **Have the students pick out the ASA and both the NTG SL tablets and spray from the selection of meds.**
- Discuss the indications, contraindications, mechanism of action, side effects, preparation form, dose, and route for the medication indicated in this case. **Review information from the med info sheet.**
- For each of the medications indicated for this patient, list out the “5 Rights” as they pertain to that particular medication and this particular patient.
 - **NTG:**
 - **Right Patient:** The med is prescribed to the patient, and it’s indicated.
 - **Right Medication:** make sure to check label.
 - **Right Route:** confirm SL administration.
 - **Right Dose:** 0.4 mg
 - **Right Date:** make sure med is not expired.

Discussion Continued:

- For each of the medications indicated for this patient, list out the “5 Rights” as they pertain to that particular medication and this particular patient.
 - **ASA:**
 - **Right Patient:** The med is indicated.
 - **Right Medication:** make sure to check label.
 - **Right Route:** confirm oral/chewed administration.
 - **Right Dose:** 160-325 mg
 - **Right Date:** make sure med is not expired.
- Discuss the appropriate administration technique for the medications indicated for this patient. **Review the appropriate technique for administering the medication, and have the students practice SL admin (tic tacs), spray admin (binaca), and chewed admin (tic tacs).**

Quick-Case 3

A 31 y/o F presents in a park C&A though disoriented in severe distress after being stung by a bee. Her sister reports that she is allergic to bees and has a prescribed EpiPen, though she is unsure how to use it properly. Your PE reveals cool, pale, and diaphoretic skin and wheezing to all lung fields. HR = 108/min and regular, RR = 24/min and shallow, BP = 62/P, SpO₂ = 85% RA.

Discussion:

With your group members, please discuss and/or do the following:

- What medication(s) is indicated by the information provided in the case? **Epinephrine**
- Identify that medication from the selection available to you. **Have the students pick out the EpiPen trainer from the selection of meds.**
- Discuss the indications, contraindications, mechanism of action, side effects, preparation form, dose, and route for the medication indicated in this case. **Review information from the med info sheet.**
- For each of the medications indicated for this patient, list out the “5 Rights” as they pertain to that particular medication and this particular patient.
 - **Right Patient:** The med is prescribed to the patient, and it’s indicated.
 - **Right Medication:** make sure to check label.
 - **Right Route:** confirm IM administration.
 - **Right Dose:** 0.3 mg
 - **Right Date:** make sure med is not expired.
- Discuss the appropriate administration technique for the medications indicated for this patient. **Review the appropriate technique for administering the medication, use the EpiPen trainer.**

Quick-Case 4

A 44 y/o M Presents C&A but obviously altered. He can follow directions, but is confused as to person, place, and time. A medical alert bracelet reports that he is an insulin-dependent diabetic. Your physical exam reveals slightly cool, pale, and diaphoretic skin and dilated pupils \perp . HR = 100/min and irregular, RR = 14/min GTV, BP = 140/88 mmHg, SpO₂ = 97% RA.

Discussion:

With your group members, please discuss and/or do the following:

- What medication(s) is indicated by the information provided in the case? **Glucose**
- Identify that medication from the selection available to you. **Have the students pick out the Glucose from the selection of meds.**
- Discuss the indications, contraindications, mechanism of action, side effects, preparation form, dose, and route for the medication indicated in this case. **Review information from the med info sheet.**
- For each of the medications indicated for this patient, list out the “5 Rights” as they pertain to that particular medication and this particular patient:
 - **Right Patient: The med is indicated.**
 - **Right Medication: make sure to check label.**
 - **Right Route: confirm oral administration.**
 - **Right Dose: 1 tube (make sure to note #mg’s in tube!)**
 - **Right Date: make sure med is not expired.**
- Discuss the appropriate administration technique for the medications indicated for this patient. **Review the appropriate technique for administering the medication.**

Quick-Case 5

A 24 y/o F presents CA&O in mild respiratory distress. She reports that she was recently diagnosed with asthma and prescribed a albuterol MDI by her physician. Your PE reveals wheezing to all lung fields \perp , skin is cool, pale, and dry. HR = 98/min and regular, RR = 18/min GTV, BP = 126/86 mmHg, SpO₂ = 93% RA.

Discussion:

With your group members, please discuss and/or do the following:

- What medication(s) is indicated by the information provided in the case? **Bronchodilator**
- Identify that medication from the selection available to you. **Have the students pick out the albuterol and nebulizer from the bag of meds.**
- Discuss the indications, contraindications, mechanism of action, side effects, preparation form, dose, and route for the medication indicated in this case. **Review information from the med info sheet.**
- For each of the medications indicated for this patient, list out the “5 Rights” as they pertain to that particular medication and this particular patient:
 - **Right Patient: The med is indicated = bronchospasm.**
 - **Right Medication: make sure to check label.**
 - **Right Route: confirm inhaled administration.**
 - **Right Dose: 1 spray**
 - **Right Date: make sure med is not expired.**
- Discuss the appropriate administration technique for the medications indicated for this patient. **Review the appropriate technique for administering the medication.**