



STATE BOARD OF PHARMACY

800 SW Jackson, Suite 1414
Topeka, Kansas 66612-1244
www.pharmacy.ks.gov (785)296-4056

**STATEWIDE PROTOCOL:
Influenza – Under 18**

**Protocol for Testing and Initiation of Therapy for
Suspected Influenza in Patients Under 18 years**

1. Authorization

This protocol is issued pursuant to K.S.A. 65-16,131, which allows a pharmacist to initiate therapy for influenza pursuant to a statewide protocol adopted by the Kansas Collaborative Drug Therapy Management Advisory Committee. A pharmacist shall engage in this protocol only when the pharmacist has complied with the Kansas Pharmacy Practice Act and all rules and regulations promulgated thereunder.

This authorizes the Kansas-licensed pharmacist who has signed and dated this Protocol to initiate CLIA-waived point-of-care testing for influenza and, when diagnostically confirmed, initiate the dispensing of antiviral therapies to treat the infection.

A pharmacist may not initiate assessment or testing unless sufficient antiviral therapy (including preferred dosage form) is readily available to treat acute influenza infection pursuant to this Protocol.

A pharmacist shall ensure that sufficient space is available in or around the pharmacy for safe and confidential assessment and treatment of patients under this Protocol and their accompanying legal guardian.

A pharmacist shall ensure that a copy of the Pediatric Advanced Life Support (PALS) criteria for vital signs in children is available in the pharmacy for immediate reference (see Appendix B).

Terms identified in this Protocol shall have the meaning set forth in K.S.A. 65-1626, and amendments thereto. For purposes of this Protocol, “legal guardian” shall mean an individual who is either the natural parent of the minor child or a court-appointed guardian of the minor child responsible for the minor child’s health and welfare.

A pharmacist shall exercise clinical judgement in assessing patients pursuant to this Protocol outside of the standard influenza season (approximately October 1 – April 30). Resource: <https://www.cdc.gov/flu/weekly/>

2. Evaluation Criteria

Pharmacist(s) authorized to initiate the dispensing of antiviral therapy to treat acute influenza infection shall treat patients according to current [CDC guidelines](#).

Pharmacists shall assess a patient based on the inclusion and exclusion criteria below based on the sample Pharmacist Assessment, Evaluation, and Prescribing Form in Appendix A. In addition to the criteria below, the Pharmacist should discontinue the Protocol and refer the patient to a primary care provider or urgent/emergent treatment facility if the Pharmacist identifies any symptom or issue that, in the clinical judgment of the Pharmacist, may necessitate additional medical intervention.

Inclusion criteria:

Any patient who presents to the pharmacy with a legal guardian and meets **all** the following criteria:

- Age 6 years or older with presence and written consent of a legal guardian;
- Complaint of any sign or symptom consistent with influenza (fever, myalgia, headache, malaise, nonproductive cough, sore throat, rhinitis);
- Reported symptom onset < 48 hours before time of presentation; and



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- If testing positive, the patient must be willing to wait at the pharmacy with the legal guardian until antiviral therapy is dispensed.

Exclusion criteria:

Any individual who meets **any** of the following criteria:

- Under 6 years old;
- Pregnant or breastfeeding;
- Immunocompromised state (hematologic malignancy, immunosuppressant drug therapy including corticosteroids for greater than two (2) weeks, HIV/AIDS);
- A positive influenza test within the previous four weeks;
- Any condition requiring supplemental oxygen therapy;
- Known hypersensitivity to all antiviral therapies for influenza or to any common component of the products;
- Administration of FluMist or generic equivalent within the previous two weeks;
- Residents of a long-term care facility;
- A patient being treated in a medical care facility or emergency department;
- A patient receiving hospice or home health services;
- Any pending test at any pharmacy, laboratory, medical care facility, or clinic for the patient's reported symptoms;
- CrCl < 10 ml/min. If the pharmacist is unable to obtain a current CrCl for a patient with a history of chronic kidney disease (i.e., creatinine clearance (CrCl) < 60 ml/min, reduced kidney function, etc.), then the patient should be excluded. For purposes of this Protocol, current CrCl means a lab value obtained within the past six months and documented by a physician's office, laboratory, or patient electronic health record, or reported by the patient and the pharmacist determines in their clinical judgment the patient report is accurate. The pharmacist shall document this information in the patient record;
- Patient is receiving hemodialysis;
- Clinical instability of a patient based on the clinical judgment of the pharmacist;
- Acute altered mental status of the patient (e.g., a change from baseline);
- Oxygen saturation (SpO₂) < 94% via pulse oximetry;
- Any two of the following: systolic blood pressure, diastolic blood pressure, pulse, or respiratory rate outside the PALS criteria based on the patient age, or temperature > 100.4 degrees Fahrenheit;
- Temperature > 102 degrees (temporal), > 103 degrees (oral), or > 104 degrees (tympanic) Fahrenheit; or
- Temperature < 96.8 degrees Fahrenheit.

Absent or unobtainable vital signs should be considered abnormal vital signs for purposes of this Protocol.

Patients who do not qualify for CLIA-waived testing under this Protocol shall be referred by the pharmacist to a primary care provider or urgent/emergent treatment facility as clinically appropriate.

The pharmacist shall provide counseling to any patient being assessed, tested, and/or treated pursuant to this Protocol and the patient's legal guardian on all the following:

- Influenza vaccination;
- Appropriate patient care including symptom control, hygiene, and infection control measures;

- CDC guidelines that a patient with a confirmed diagnosis of influenza should stay home from work, school, or daycare until they are afebrile (100°F) for at least 24 hours without the use of a fever-reducing medication and at least 24 hours after starting antiviral therapy;
- Referral for any unrelated symptoms or patient complaints not addressed under this Protocol;
- Medication counseling pursuant to K.A.R. 68-2-20; and
- Signs and symptoms that warrant emergency medical care.

3. Initiation of Therapy and Procedures

The pharmacist shall assess the patient's relevant medical and social history:

- Patient demographics
- Medical history
- Relevant social history
- Current clinical comorbidities or disease states, including current mental status
- Current blood pressure, pulse, oxygen saturation, respiratory rate, temperature, and weight
- For females of child-bearing potential, pregnancy, or breastfeeding status
- Current Medications
- Medication allergies and hypersensitivities (pharmacist shall assess reported allergies for validity by reviewing the patient's pharmacy record, if applicable, and documenting the reported reaction)
- Onset and duration of flu-like signs and symptoms

If the patient qualifies for CLIA-waived testing under this Protocol, then the pharmacist shall perform a CLIA-waived point-of-care test to determine the patient's influenza status.

- If positive, the pharmacist may proceed to consideration for immediate antiviral therapy treatment.
- If negative, the pharmacist shall counsel the patient and legal guardian on the risk of a false-negative test result and on appropriate patient care (stay home for at least 24 hours after fever subsides, drink plenty of fluids, treat symptoms as needed, and consider influenza immunization) or shall refer the patient to a primary care provider or urgent/emergency treatment facility as clinically appropriate.

The pharmacist shall evaluate for contraindications and precautions.

The pharmacist may immediately initiate antiviral therapy only in carefully selected individuals based on relevant medical and social history and considerations of contraindications and precautions as identified through assessment and screening.

Antiviral Therapy

The pharmacist is authorized to order and dispense the following antiviral agents to a patient that meets the evaluation inclusion criteria unless an identified contraindication applies for the patient.

- A. Oral oseltamivir (Tamiflu)
 - a. Contraindications
 - i. Known hypersensitivity to oseltamivir or any component
 - b. Dosing – all doses to be administered x 5 days

- i. 15 kg or less: 30 mg twice daily
 - ii. > 15 mg to 23 kg: 45 mg twice daily
 - iii. > 23 kg to 40 kg: 60 mg twice daily
 - iv. > 40 kg: 75 mg twice daily
- B. Oral baloxavir marboxil (Xofluza)
 - a. Contraindications
 - i. Known hypersensitivity to baloxavir or any component
 - ii. Weight < 40 kg
 - iii. Under 12 years of age
 - b. Dosing – all doses to be administered as a single dose
 - i. Weight-based
 1. 40 kg to < 80 kg: 40 mg
 2. 80 kg and above: 80 mg
- C. Inhaled zanamivir (Relenza Diskhaler)
 - a. Contraindications
 - i. Known hypersensitivity to zanamivir or any component
 - ii. Underlying respiratory disease or asthma
 - iii. Under 7 years of age
 - b. Dosing – all doses to be administered twice daily x 5 days
 - i. 10 mg (two 5 mg inhalations)

If the patient qualifies for multiple therapies above, the pharmacist shall document the rationale for selecting the antiviral therapy dispensed. Documentation may include patient or legal guardian preference, cost, and shared clinical decision-making.

The pharmacy shall ensure that a pharmacist that has entered the Protocol shall monitor the patient for continuation or adjustment of therapy, including the following:

- As clinically appropriate, initiate telephone follow-up with patient's legal guardian within 72 hours of dispensing to assess the clinical stability, onset of new symptoms, and medication adverse effects.
- If the legal guardian follows-up with the pharmacist after receiving therapy and within the therapy regimen period, the pharmacist may utilize their professional judgment to dispense replacement therapy due to unanticipated loss or adulteration of the previous prescription dispensed. The pharmacist shall not substitute alternate therapy.
- Refer to a primary care provider or urgent/emergent treatment facility if any of the following are reported:
 - Significant deterioration in condition or new evidence of clinical instability;
 - Onset of symptoms inconsistent with influenza or indicative of serious complications of influenza; or
 - Medication adverse effects severe enough to warrant discontinuation.

4. Documentation and Recordkeeping

The pharmacist shall create a medication profile record for each patient who is assessed, tested, and/or treated for influenza pursuant to this Protocol and shall document the results and dispensing of any antiviral therapy in the prescription record, including documentation of the following:



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- Elements required by K.S.A. 65-1642 and K.A.R.68-7-14;
- Presenting signs and symptoms of the patient that warranted testing;
- The manufacturer, lot, expiration date, and result of the CLIA-waived point-of-care test used;
- Patient and legal guardian informed consent and counseling provided, including any patient referral;
- Rationale for the antiviral therapy selected, if any, and/or OTC medications recommended for symptom management;
- Appropriate clinical follow-up, if any; and
- Notifications to other healthcare providers.

Each pharmacist dispensing medication pursuant to this Protocol shall record themselves as the prescriber. The record shall be maintained such that the required information is readily retrievable and shall be securely stored within the pharmacy or electronic pharmacy management system for a period of 10 years from the date of assessment, testing, and/or dispensing, or until the patient turns 20 years old, whichever is longer. Records may be required to be stored (and may be off-site) for longer periods to comply with other state and federal laws.

5. Training and Counseling

Prior to initiating testing and dispensing antiviral therapies under this protocol, a pharmacist shall receive and document education and training in point-of-care CLIA-waived testing techniques appropriate to the test employed by the pharmacy from a provider accredited by the Accreditation Council for Pharmacy Education (ACPE). Additionally, the pharmacist shall maintain knowledge of the Centers for Disease Control's (CDC) current recommendations for the use of antiviral drugs in the treatment of influenza. Individuals who will be involved with patient specimen collection shall have documented hands-on training for specimen collection which includes infection control measures.

6. Notification

The pharmacist shall ask the legal guardian of the patient tested under this Protocol for the name and contact information of a primary care provider. If a primary care provider is identified, the pharmacist shall provide a summary of the patient encounter to the provider within seven days, including at least the patient's name, date of birth, influenza test results, any medication dispensed, and follow-up plan.

Each pharmacist that conducts a CLIA-waived point-of-care test shall provide the patient and legal guardian with a copy of the test result.



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7. Signed Protocol

Each pharmacist utilizing this Protocol shall maintain a copy of the signed and dated Protocol for ten years from the date of last assessment, testing, or dispensing at each Kansas Board of Pharmacy registered facility where the pharmacist has provided services.

PHARMACIST AUTHORIZATION*

Printed Name	Kansas License Number
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SIGNATURE

DATE SIGNED

Normal Pediatric Vital Signs

Learn & Master ACLS (<https://acls-algorithms.com>)

Age	Breaths/min
<1 year	30-58
1 to 3 years	22-37
4-5 years	20-28
6-12 years	18-25
13-18 years	12-20

Age	Awake Rate
Newborn	100-205
Infant	100-180
Toddler	98-140
Preschool	80-120
School-age	75-118
Adolescent	60-100

Age	Systolic BP (mm Hg)	Diastolic BP (mm Hg)	MAP (mm Hg) Mean Arterial Pressure
Birth (12 hrs, <1000g)	39-59	16-36	28-42
Birth (12 hrs, 3kg)	60-76	31-45	48-57
Neonate (96 hours)	67-84	35-53	45-60
1-12 months	72-104	37-56	50-62
1-2 years	86-106	42-63	49-62
3-5 years	89-112	46-72	58-69
6-7 years	97-115	57-76	66-72
10-12 years	102-120	61-80	71-79
12-15 years	110-131	64-83	73-84

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Appendix A

Pharmacist Assessment, Evaluation and Prescribing Protocol Form: Influenza, Adult**PATIENT INFORMATION**

Name		Date of Birth	Age	
Legal Guardian Name		Phone	Email	
Address				
City	State	Zip	County	
Primary Care Provider				
Medication Allergies				
Current Medications (Rx, OTC, herbal, topical, pain or allergy, supplements, vitamins, etc.):				
Treatments tried for current condition (if none, indicate N/A):				

PATIENT ELIGIBILITY (Legal Guardian may respond on behalf of Patient)

<input type="checkbox"/> Yes <input type="checkbox"/> No	Are you under 6 years of age?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are you pregnant or breastfeeding?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are you experiencing any altered mental status or change from normal cognition? If yes, explain:
<input type="checkbox"/> Yes <input type="checkbox"/> No	Have you ever been diagnosed with a weakened immune system (e.g., cancer, HIV/AIDS, transplant, long-term steroids, etc.)? If yes, explain:
<input type="checkbox"/> Yes <input type="checkbox"/> No	Do you require supplemental oxygen therapy?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are you receiving hemodialysis?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Do you have a history of chronic kidney disease or reduced kidney function?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are you a resident of a nursing home or long-term care facility, in hospice, or receiving home health services?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Do you have a pending test for your flu-like symptoms (COVID, strep, flu)?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Have you tested positive for influenza in the previous four weeks?
When did your flu-like symptoms start?	
<input type="checkbox"/> More than two days ago. <input type="checkbox"/> 2 days ago, yesterday, or today.	



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Appendix A**

Do you have any of the following symptoms (check all that apply)?

- Fever Nasal congestion Muscle/body aches Cough Sore Throat Other:

Do you have any of the following?

- History of allergic reactions to influenza treatment
 History of physiologic side effects from any previous influenza treatment
 Received Flumist or generic equivalent within the past two weeks



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Appendix A

– PHARMACY STAFF ONLY –

PATIENT ASSESSMENT

Physical Assessment (please record values)	Refer to PCP if determined clinically unstable in pharmacist professional judgment or any of the following criteria:
Blood Pressure	Systolic blood pressure or diastolic blood pressure outside PALS criteria based on patient age (dual criteria)
Respiratory Rate	Respiratory rate outside PALS criteria based on patient age (dual criteria)
Pulse	Pulse outside PALS criteria based on patient age (dual criteria)
Oxygen Saturation	Oxygen saturation (SpO ₂) < 94% via pulse oximetry
Creatinine Clearance	CrCl < 10 ml/min or unable to obtain
Temperature	Temperature > 102 degrees (temporal), > 103 degrees (oral), or > 104 degrees (tympanic) Fahrenheit (single criteria); Temperature < 96.8 degrees Fahrenheit (single criteria); Temperature > 100.4 degrees Fahrenheit (dual criteria)
<input type="checkbox"/> Yes <input type="checkbox"/> No Acute altered mental status	Yes

Patients who do not qualify for CLIA-waived testing under this Protocol shall be referred by the pharmacist to a primary care provider or urgent/emergent treatment facility as clinically appropriate.

Absent or unobtainable vital signs should be considered abnormal vital signs for purposes of this Protocol.

Treat using protocol if:

- Age 6 years or older with presence and written consent of a legal guardian;
- Complaint of any sign or symptom consistent with influenza (fever, myalgia, headache, malaise, nonproductive cough, sore throat, rhinitis);
- Reported symptom onset < 48 hours before time of presentation; and
- If testing positive, the patient must be willing to wait at the pharmacy with the legal guardian until antiviral therapy is dispensed.

Refer to PCP and exclude from testing if:

- Under 6 years old;
- Pregnant or breastfeeding;
- Immunocompromised state (hematologic malignancy, immunosuppressant drug therapy including corticosteroids for greater than two (2) weeks, HIV/AIDS);
- A positive influenza test within the previous four weeks;
- Any condition requiring supplemental oxygen therapy;
- Known hypersensitivity to all antiviral therapies for influenza or to any common component of the products;
- Administration of FluMist or generic equivalent within the previous two weeks;
- Residents of a long-term care facility;
- A patient being treated in a medical care facility or emergency department;
- A patient receiving hospice or home health services;
- Any pending test at any pharmacy, laboratory, medical care facility, or clinic for the patient’s reported symptoms;

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Appendix A

- CrCl < 10 ml/min. If the pharmacist is unable to obtain a current CrCl for a patient with a history of chronic kidney disease (i.e., creatinine clearance (CrCl) < 60 ml/min, reduced kidney function, etc.), then the patient should be excluded. For purposes of this Protocol, current CrCl means a lab value obtained within the past six months and documented by a physician's office, laboratory, or patient electronic health record, or reported by the patient and the pharmacist determines in their clinical judgment the patient report is accurate. The pharmacist shall document this information in the patient record;
- Patient is receiving hemodialysis;
- Clinical instability of a patient based on the clinical judgment of the pharmacist;
- Acute altered mental status of the patient (e.g., a change from baseline);
- Oxygen saturation (SpO₂) < 94% via pulse oximetry;
- Any two of the following: systolic blood pressure, diastolic blood pressure, pulse, or respiratory rate outside the PALS criteria based on the patient age, or temperature > 100.4 degrees Fahrenheit;
- Temperature > 102 degrees (temporal), > 103 degrees (oral), or > 104 degrees (tympanic) Fahrenheit; or
- Temperature < 96.8 degrees Fahrenheit.

CLIA-WAIVED POC TEST RESULT

- Positive for influenza (continue)
- Negative for influenza (refer to PCP + symptomatic treatment)

PATIENT ACTION

- Yes No Influenza Diagnosed
- Yes No Antiviral Treatment Prescribed
- Yes No Refer to PCP

Therapy Options		
Influenza Adult Treatment		
<input type="checkbox"/> Oral Oseltamivir (Tamiflu)	Dispense: <input type="checkbox"/> 75mg #10 <input type="checkbox"/> 60mg #10 <input type="checkbox"/> 45mg #10 <input type="checkbox"/> 30mg #10 No refills	Sig: Take 1 (one) by mouth twice daily for 5 days
<input type="checkbox"/> Inhaled Zanamivir (Relenza Diskhaler)	Dispense: <input type="checkbox"/> 1 inhaler No refills	2 inhalations by mouth twice daily for 5 days
<input type="checkbox"/> Oral Baloxavir Marboxil (Xofluza)	Dispense: <input type="checkbox"/> 40mg x 1 <input type="checkbox"/> 80mg x 1 No refills	Take 1 tablet by mouth now

PHARMACIST PRESCRIBER CERTIFICATION

Printed Name	License Number
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SIGNATURE

DATE



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PATIENT FOLLOW-UP

Assessment	Refer to PCP (if symptoms persist) <input type="checkbox"/> Yes <input type="checkbox"/> No
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PHARMACIST FOLLOW-UP CERTIFICATION

Printed Name	License Number
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SIGNATURE

DATE