Based on the content found in the document, here is a structured pathway for **rash**, **sinusitis**, and **sore throat**, including both inclusion and exclusion criteria, relevant treatment options, and corresponding patient group directions (PGDs).

**1. Rash Pathway**

**Inclusion Criteria:**

* Patient presents with **localised rash**.
* The rash is **non-bullous impetigo**.
* The rash is **not widespread** and does not show signs of serious infection or systemic involvement.

**Exclusion Criteria:**

* Presence of **fever** or systemic symptoms indicating a more serious infection.
* **Widespread rash** affecting multiple body areas.
* Known **allergy** to proposed treatment medications, such as **fusidic acid** or **flucloxacillin**.

**Treatment Options:**

* **For Localised Rash (Non-Bullous Impetigo):**
  + **Fusidic acid 20mg/g (2%) cream** (PGD 3b): Used for treating localised non-bullous impetigo.
* **For Widespread Rash (Non-Bullous Impetigo):**
  + **Flucloxacillin capsules/oral solution/oral suspension** (PGD 3c): Used for widespread cases.
  + **Clarithromycin tablets/oral suspension/oral solution** (PGD 3d): Alternative treatment, especially for penicillin allergies.
  + **Erythromycin** for pregnant individuals aged 16 years and over (PGD 3e)​(PRN01010\_Pharmacy-First…).

**2. Sinusitis Pathway**

**Inclusion Criteria:**

* **Acute sinusitis** or **rhinosinusitis**.
* Symptoms include **nasal congestion**, **facial pressure**, and **pain**.
* Duration typically less than **10 days**, suggesting acute onset.

**Exclusion Criteria:**

* Symptoms persisting for longer than **4 weeks** or recurrent infections.
* History of **penicillin allergy** if treatment involves **penicillin-based antibiotics**.
* Severe or **systemic symptoms**, such as high fever or signs of spreading infection.

**Treatment Options:**

* **For Acute Sinusitis:**
  + **Fluticasone furoate nasal spray** (PGD 6a): Helps reduce nasal inflammation.
  + **Mometasone furoate monohydrate nasal spray** (PGD 6b): An alternative nasal spray for reducing symptoms.
* **For Acute Bacterial Sinusitis:**
  + **Phenoxymethylpenicillin (penicillin V)** tablets/oral solution (PGD 6c): For bacterial infections.
  + **Clarithromycin** tablets/oral suspension (PGD 6d): Suitable for those with a penicillin allergy.
  + **Doxycycline** (PGD 6e): Can be used if other treatments are not suitable.
  + **Erythromycin** for pregnant individuals aged 16 years and over (PGD 6f)​(PRN01010\_Pharmacy-First…).

**3. Sore Throat Pathway**

**Inclusion Criteria:**

* **Acute sore throat** potentially due to **streptococcal infection**.
* Presence of symptoms such as **pain when swallowing**, **red/swollen tonsils**, or **white patches**.

**Exclusion Criteria:**

* Persistent symptoms lasting longer than **2 weeks** without improvement.
* Known **allergy to penicillin** or **clarithromycin**.
* **Pregnancy**, especially if aged under **16 years**.

**Treatment Options:**

* **For Suspected Streptococcal Sore Throat:**
  + **Phenoxymethylpenicillin (penicillin V)** tablets/oral solution (PGD 5a): First-line treatment for streptococcal infection.
  + **Clarithromycin** tablets/oral suspension (PGD 5b): Alternative for penicillin allergy.
  + **Erythromycin** for pregnant individuals aged 16 years and over (PGD 5c)​(PRN01010\_Pharmacy-First…).

**How This Information Can Be Integrated Into a Pathway**

The above criteria and treatment options can be used to build a decision-support system that helps healthcare professionals determine whether a patient meets the criteria for a particular treatment under the Pharmacy First PGDs. The flow would be:

1. **Symptom Identification**:
   * Start by identifying the patient's symptoms, such as rash, sinusitis, or sore throat.
2. **Descriptor Questions**:
   * Use the questions from your CSV to collect more details about the symptoms.
   * Example: If the patient has a rash, ask: "How would you characterize the rash?" Options include **Blotchy**, **Red**, **Itchy**, **Raised**, etc.
3. **Apply Inclusion and Exclusion Criteria**:
   * Based on the responses, determine if the patient meets the inclusion criteria.
   * If any exclusion criteria are met, provide an alternative recommendation (e.g., refer to a GP).
4. **Treatment Recommendation**:
   * Once inclusion is confirmed and exclusion ruled out, recommend the appropriate treatment as per the relevant PGD.
   * For example, if a patient has **acute bacterial sinusitis** and no contraindications, recommend **phenoxymethylpenicillin**.
5. **Document and Advise**:
   * Document the decision and advise the patient accordingly.
   * If eligible for Pharmacy First treatment, proceed with supply. If not, provide guidance for further care.

**Summary Pathways**

* **Rash Pathway**:
  + **Identify**: Type and extent of rash.
  + **Ask**: Characterize the rash.
  + **Apply Criteria**: Check for inclusion and exclusion.
  + **Treatment**: **Fusidic acid** for localized or **flucloxacillin** for widespread.
* **Sinusitis Pathway**:
  + **Identify**: Symptoms like congestion and pain.
  + **Ask**: Duration and severity of symptoms.
  + **Apply Criteria**: Acute vs. chronic, bacterial vs. viral.
  + **Treatment**: **Nasal spray** for congestion or **penicillin V** for bacterial.
* **Sore Throat Pathway**:
  + **Identify**: Severity and appearance of the throat.
  + **Ask**: Describe the sore throat.
  + **Apply Criteria**: Acute vs. chronic, allergic history.
  + **Treatment**: **Penicillin V** for strep or **clarithromycin** for penicillin-allergic patients.

These pathways will ensure that the Pharmacy First service follows consistent and evidence-based protocols, providing safe and effective treatment options while respecting the limits of professional practice. If you need more details on specific aspects, feel free to ask!

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**You said:**

what are the other 4 pathways here?

**ChatGPT said:**

ChatGPT

Based on the available information, here are the additional **four pathways** with **inclusion** and **exclusion** criteria, as well as the relevant **treatment options** from the Pharmacy First Protocol.

**1. Urinary Tract Infection (UTI) Pathway**

**Inclusion Criteria:**

* Patient presents with symptoms of **uncomplicated UTI**, such as:
  + **Frequent urination**
  + **Painful urination (dysuria)**
  + **Lower abdominal pain**

**Exclusion Criteria:**

* **Complicated UTI** symptoms, such as fever or flank pain (suggestive of pyelonephritis).
* **Pregnancy**, **age under 16 years**, or **male patients**.
* Known **allergy to nitrofurantoin** or **quinolone antibiotics**.

**Treatment Options:**

* **Nitrofurantoin capsules/tablets** (PGD 1a): Used for treating uncomplicated UTI​(PRN01010\_Pharmacy-First…).

**2. Shingles (Herpes Zoster) Pathway**

**Inclusion Criteria:**

* Patient presents with a **painful rash** with vesicles, located on one side of the body.
* Onset of symptoms is within **72 hours**.

**Exclusion Criteria:**

* **Pregnancy**, **immunocompromised patients**, or patients with **involvement of the eye**.
* **Age under 50 years** unless patient has other risk factors.

**Treatment Options:**

* **Aciclovir tablets/dispersible tablets** (PGD 2a): For the treatment of shingles.
* **Valaciclovir tablets** (PGD 2b): Alternative antiviral treatment for shingles​(PRN01010\_Pharmacy-First…).

**3. Infected Insect Bite or Sting Pathway**

**Inclusion Criteria:**

* Patient presents with an **infected insect bite or sting**:
  + Signs of infection, such as **redness**, **swelling**, **pain**, or **pus**.

**Exclusion Criteria:**

* **Systemic symptoms** like fever, or suspected **anaphylaxis**.
* History of **allergy to penicillin** or **macrolides**.

**Treatment Options:**

* **Flucloxacillin capsules/oral solution/oral suspension** (PGD 4a): First-line treatment for infected insect bites.
* **Clarithromycin** (PGD 4b): Used if the patient has a **penicillin allergy**.
* **Erythromycin** (PGD 4c): Used for **pregnant individuals** aged 16 years and over​(PRN01010\_Pharmacy-First…).

**4. Acute Otitis Media (AOM) Pathway**

**Inclusion Criteria:**

* Patient presents with symptoms of **acute otitis media**, such as:
  + **Ear pain**
  + **Hearing difficulty**
  + **Fever** (may be present in children)

**Exclusion Criteria:**

* **Chronic ear infections**, presence of **ear discharge**, or patients who are **immunocompromised**.
* **Pregnancy** under 16 years of age (specific PGD may vary).

**Treatment Options:**

* **Otigo® ear drops (phenazone/lidocaine)** (PGD 7a): For symptomatic relief of pain due to AOM.
* **Amoxicillin capsules/oral suspension** (PGD 7b): First-line antibiotic for AOM.
* **Clarithromycin** (PGD 7c): Used as an alternative in case of **penicillin allergy**.
* **Erythromycin** (PGD 7d): For **pregnant individuals** aged 16 or 17 years​(PRN01010\_Pharmacy-First…).

**Summary of Pathways**

Here is a summary of the four additional pathways with the criteria and treatment options:

* **UTI Pathway**:
  + **Inclusion**: Symptoms like frequent or painful urination.
  + **Exclusion**: Complicated UTI, pregnancy, age under 16.
  + **Treatment**: **Nitrofurantoin**.
* **Shingles Pathway**:
  + **Inclusion**: Painful rash within 72 hours of onset.
  + **Exclusion**: Pregnancy, immunocompromised, eye involvement.
  + **Treatment**: **Aciclovir** or **Valaciclovir**.
* **Infected Insect Bite Pathway**:
  + **Inclusion**: Signs of infection at the bite site.
  + **Exclusion**: Systemic symptoms, anaphylaxis.
  + **Treatment**: **Flucloxacillin**, **Clarithromycin**, **Erythromycin**.
* **Acute Otitis Media Pathway**:
  + **Inclusion**: Ear pain, possible fever.
  + **Exclusion**: Chronic infections, ear discharge.
  + **Treatment**: **Otigo® ear drops**, **Amoxicillin**, **Clarithromycin**, **Erythromycin**.

These additional pathways cover a wide range of minor ailments commonly treated under the Pharmacy First scheme. Each pathway includes appropriate inclusion and exclusion criteria to ensure that treatment is suitable and safe for the patient. Let me know if you need more detailed integration steps or further clarification on any of these pathways!

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