# Possible Side Effects of Cyclophosphamide, Cytarabine IV or SQ; Mercaptopurine (MP), Vincristine, and Pegaspargase or Calaspargase (Table Version Date: April 5, 2024)

| **COMMON, SOME MAY BE SERIOUS**In 100 people receiving Cyclophosphamide, Cytarabine IV or SQ; Mercaptopurine (MP), Vincristine, and Pegaspargase or Calaspargase, more than 20 and up to 100 may have: |
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| * Allergic reaction which may cause rash, low blood pressure, wheezing, shortness of breath, swelling of the face or throat
* Infection, especially when white blood cell count is low
* Anemia which may cause tiredness, or may require transfusion
* Bruising, bleeding
* Blood clot, including in the brain, which may lead to stroke
* Blood in urine
* Constipation, which may be severe, as a result of a bowel blockage
* Nausea, vomiting, diarrhea, loss of appetite, pain in belly
* Sores in mouth, throat, and GI tract including rectum which may cause difficulty swallowing or pain
* Absence of menstrual period which may decrease the ability to have children
* Numbness and tingling of fingers or toes
* Swelling of lower legs
* Muscle weakness and difficulty walking
* Headache, jaw pain and/or bone/muscle pain
* Fatigue
* Pain or redness at the site of injection
* Hair loss, skin changes, rash, hives, change in nails
* Fever, chills
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| **OCCASIONAL, SOME MAY BE SERIOUS**In 100 people receiving Cyclophosphamide, Cytarabine IV or SQ; Mercaptopurine (MP), Vincristine, and Pegaspargase or Calaspargase, from 4 to 20 may have: |
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| * Paralysis
* Damage to the heart or heart failure which may cause shortness of breath, swelling of ankles, cough or tiredness
* Fluid around the heart
* Abnormal heartbeat which may cause fainting
* High blood pressure which may cause headaches, dizziness, blurred vision
* Low blood pressure which may cause feeling faint
* Chest pain
* Damage to the bone marrow (irreversible) which may cause infection, bleeding, may require transfusions
* Damage to the lungs or scarring of the lungs which may cause shortness of breath
* Severe blood infection
* Liver damage which may cause yellowing of eyes and skin
* Kidney damage which may cause swelling, may require dialysis
* Difficulty with balance and hearing
* Damage to the pancreas causing abdominal pain
* Diabetes
* Difficulty emptying the bladder or urinating, excessive, frequent, or painful urination
* Numbness and tingling of the arms and legs
* Muscle pain
* Dizziness, confusion
* Loss or absence of sperm which may lead to an inability to father children
* Flu-like syndrome with fever, bone pain, rash, redness of eyes, or chest pain
* Swelling and redness of the eye
* Drooping eyelids, abnormal eye movement
* Hoarseness
* Infection at injection site which may cause rash
* Itching
* Increased risk of sunburn
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| **RARE, AND SERIOUS**In 100 people receiving Cyclophosphamide, Cytarabine IV or SQ; Mercaptopurine (MP), Vincristine, and Pegaspargase or Calaspargase, 3 or fewer may have: |
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| * Posterior Reversible Encephalopathy Syndrome (PRES) which may cause headache, seizure, blindness
* Swelling of the body including the brain which may cause dizziness, confusion
* A new cancer (including leukemia) resulting from treatment
* Trouble standing or walking, coma
* Sinusoidal obstructive syndrome (SOS) which may cause damage to the liver, yellowing of eyes and skin, swelling
* Stevens-Johnson syndrome which may cause severe skin rash with blisters and peeling which can involve mouth and other parts of the body
* Visual loss with a chance of blindness
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