# Possible Side Effects of Cyclophosphamide, Cytarabine, Dexamethasone, Doxorubicin, Pegaspargase (PEG L-asparaginase) or Calaspargase, Thioguanine, Vincristine, Nelarabine (Table Version Date: April 5, 2024)

| **COMMON, SOME MAY BE SERIOUS**In 100 people receiving Cyclophosphamide, Cytarabine, Dexamethasone, Doxorubicin, Pegaspargase or Calaspargase, Thioguanine, Vincristine, Nelarabine, more than 20 and up to 100 may have: |
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| * High blood pressure which may cause headaches, dizziness, blurred vision
* Infection, especially when white blood cell count is low
* Anemia which may cause tiredness, or may require transfusion
* Bruising, bleeding
* Allergic reaction which may cause rash, low blood pressure, wheezing, shortness of breath, swelling of the face or throat
* Cough, shortness of breath
* Blood clot which may cause swelling, pain, shortness of breath
* Diabetes
* In children and adolescents: decreased height
* Constipation, which may be severe, as a result of a bowel blockage
* Nausea, vomiting, diarrhea, loss of appetite, pain in belly, heartburn
* Sores in mouth, throat, and GI tract including rectum, which may cause difficulty swallowing or pain
* Loss of bone tissue
* Damage to the bone which may cause joint pain, loss of motion, or broken bones
* Absence of menstrual period or early menopause which may decrease the ability to have children
* Blood in urine
* Red colored urine, saliva, or sweat
* Headache, jaw pain and/or bone/muscle pain
* Muscle weakness or spasms and difficulty walking
* Mood swings
* Difficulty sleeping
* Restlessness, worry, depression
* Numbness, pain, and tingling of the arms, legs, fingers and/or toes
* Swelling of the body, tiredness, bruising
* Increased appetite and weight gain in belly, face, back and shoulders
* Swelling, pain, and redness at the site of the medication injection or area of previous radiation
* Hair loss, skin changes, acne, rash, change in nails
* Hives
* Increased risk of sunburn
* Chills, fever
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| **OCCASIONAL, SOME MAY BE SERIOUS**In 100 people receiving Cyclophosphamide, Cytarabine, Dexamethasone, Doxorubicin, Pegaspargase or Calaspargase, Thioguanine, Vincristine, Nelarabine, from 4 to 20 may have: |
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| * Damage to the heart or heart failure which may cause shortness of breath, swelling of ankles, cough or tiredness
* Abnormal heartbeat which may cause fainting
* Chest pain
* Fluid around the heart
* Low blood pressure which may cause feeling faint
* Blood clot, including in the brain, which may lead to stroke
* Damage to the lungs or scarring of the lungs which may cause shortness of breath
* Damage to the bone marrow (irreversible) which may cause infection, bleeding, may require transfusions
* Severe blood infection
* A tear or a hole in the bowels which may cause pain or that may require surgery
* Belly pain, damage to the pancreas
* Fluid in the belly, which may cause belly pain, swelling
* Damage to the bowels
* Liver damage which may cause yellowing of eyes and skin, swelling
* Tumor lysis syndrome which may cause kidney damage which may require dialysis
* Kidney damage which may cause swelling, may require dialysis
* Difficulty emptying the bladder or urinating, excessive, frequent, or painful urination
* Loss or absence of sperm which may lead to an inability to father children
* Muscle pain
* Swelling of the brain which may cause dizziness, confusion
* Dizziness, confusion, headache
* Trouble with memory
* Difficulty talking
* Abnormal body movement
* Seizure
* Paralysis
* Difficulty with balance and hearing
* Flu-like syndrome with fever, bone pain, rash, redness of eyes, or chest pain
* Glaucoma
* Cloudiness of the eye, visual disturbances, blurred vision
* Swelling and redness of the eye
* Drooping eyelids, abnormal eye movement
* Dehydration
* Change in weight
* Hoarseness, sore throat
* Infection at injection site which may cause rash
* Non-healing wound
* Itching
* Darkening of the nail beds or skin or hands and feet
* Darkening of the gums
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| **RARE, AND SERIOUS**In 100 people receiving Cyclophosphamide, Cytarabine, Dexamethasone, Doxorubicin, Pegaspargase or Calaspargase, Thioguanine, Vincristine, Nelarabine, 3 or fewer may have: |
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| * Posterior Reversible Encephalopathy Syndrome (PRES) which may cause headache, seizure, blindness
* Coma
* A new cancer (including leukemia) resulting from treatment
* Sinusoidal obstructive syndrome (SOS) which may cause damage to the liver, yellowing of the 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
* Damage to the muscles which may cause muscle pain, dark red urine
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