

Tumor lysis syndrome (TLS)

- Most commonly seen after:
 - Induction cytotoxic chemotherapy for acute leukemias and lymphomas
 - Chemoembolization (TACE) procedure - a combination of doxorubicin and polyethylene glycol microspheres
- Defined by two of more of the following during the same 24-h period within 3 days before the start of cytotoxic therapy or up to 7 days afterward:
 - Hyperkalemia, hyperphosphatemia, hypocalcemia, hyperuricemia, or oliguria
- Complications include cardiac arrhythmias, renal failure, and seizures
- Treatment
 - IV fluids
 - Rasburicase metabolizes uric acid and prevents uric acid nephropathy
 - Allopurinol aborts the conversion of nucleic acids to uric acid