Capizzi Methotrexate Escalation Algorithm

This is an implementation tool for modification of methotrexate dosing in "Capizzi" regimens. Please refer to the full protocol for more detailed information.

CBC Results

- **ANC <0.5 or Plt <50**
  - **Hold** Repeat counts in 4 days
- **ANC ≥0.5 and <0.75 and/or Plt ≥50 but <75**
  - Give same dose as previous cycle
- **ANC ≥0.75 and Plt ≥75**
  - Escalate by 50 mg/m^2

CBC Results

- **ANC <0.5 or Plt <50**
  - **Give Vincristine OMIT Methotrexate** Repeat counts in 7 days
- **ANC ≥0.5 and Plt ≥50**
  - Give same dose as previous cycle and plan next dose for 10 days

CBC Results

- **ANC <0.5 and Plt <50**
  - **Hold** until ANC ≥0.5 and Plt ≥50 Resume at 80% of previous dose
- **ANC ≥0.5 and Plt ≥50**
  - Resume at 80% of last dose

Subsequent doses: Resume escalation according to CBC and ALT results

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Grade 3 Mucositis Regardless of blood counts or hepatic dysfunction
- **HOLD** Stop Septra
- Resume at 80% of last dose when mucositis resolved
- Escalate per CBC/ALT results for further doses

Serum Creatinine >1.5 times baseline Postpone course

Contact specialized childhood cancer program to discuss

Direct Bilirubin >34 umol/L HOLD

Consider investigation of cause Repeat in 7 days

ALT Results*   *Within 72 hours prior to MTX

- **<10 x ULN** / **10–20 x ULN FIRST TIME**
  - **Escalate by Dose as per CBC**
    - **<10 x ULN**
      - Escalate by Dose as per CBC
    - **10–20 x ULN 2nd consecutive time**
      - **HOLD** Stop Septra Consider viral testing
        - **<10 x ULN**
          - Resume at full dose at point of interruption
          - **Do not skip doses**
- **>20 x ULN**
  - **HOLD** Stop Septra Repeat labs weekly
    - **ALT Results**
      - **<10 x ULN**
        - Resume at full dose at point of interruption
        - **Do not skip doses**
      - **>20 x ULN for more than 2 weeks**
        - **Continue to Hold**

          Evaluate:
          - AST
          - Bilirubin
          - ALP
          - PT
          - Albumin
          - Protein
          - Hepatitis A,B,C
          - CMV
          - EBV serology
          - Contact specialized childhood cancer program to discuss potential of biopsy

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ANC: Absolute Neutrophil Count
PLT: Platelet Count
ULN: Upper Limit of Normal (should be calculated on local lab values)

Institutional ALNs

Age Range	Male	Female
_____	_____	_____
_____	_____	_____
_____	_____	_____