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High-Dose Interleukin-2 Administration in the Oncology Medical-Surgical Setting – An Innovation to Impact Cost Efficiencies, Clinical Outcomes and the Ideal Patient Experience

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High-Dose Interleukin-2 Administration in the Oncology Medical-Surgical Setting -An Innovation to Impact Cost Efficiencies, Clinical Outcomes and the Ideal Patient Experience 7C Hematology/Oncology Unit Staff Members Lehigh Valley Health Network, Allentown, PA

Objective

Discuss program components for successful administration of high-dose IL-2 outside the traditional step-down or critical care setting, in a 20-bed medical-surgical hematology/oncology unit.

Evidence and Background

IL-2

- Biotherapy that stimulates immune reaction
- Durable and complete responses in metastatic melanoma & renal cell carcinoma

Routine Administration

- Step-down or critical care unit
- No published reports in medical-surgical setting

Methods and Interventions

Goal

Administer a maximum of 14 IL-2 doses

Staffing

• 2 patients to 1 nurse

Consistent Timed Therapy - q 8 hours

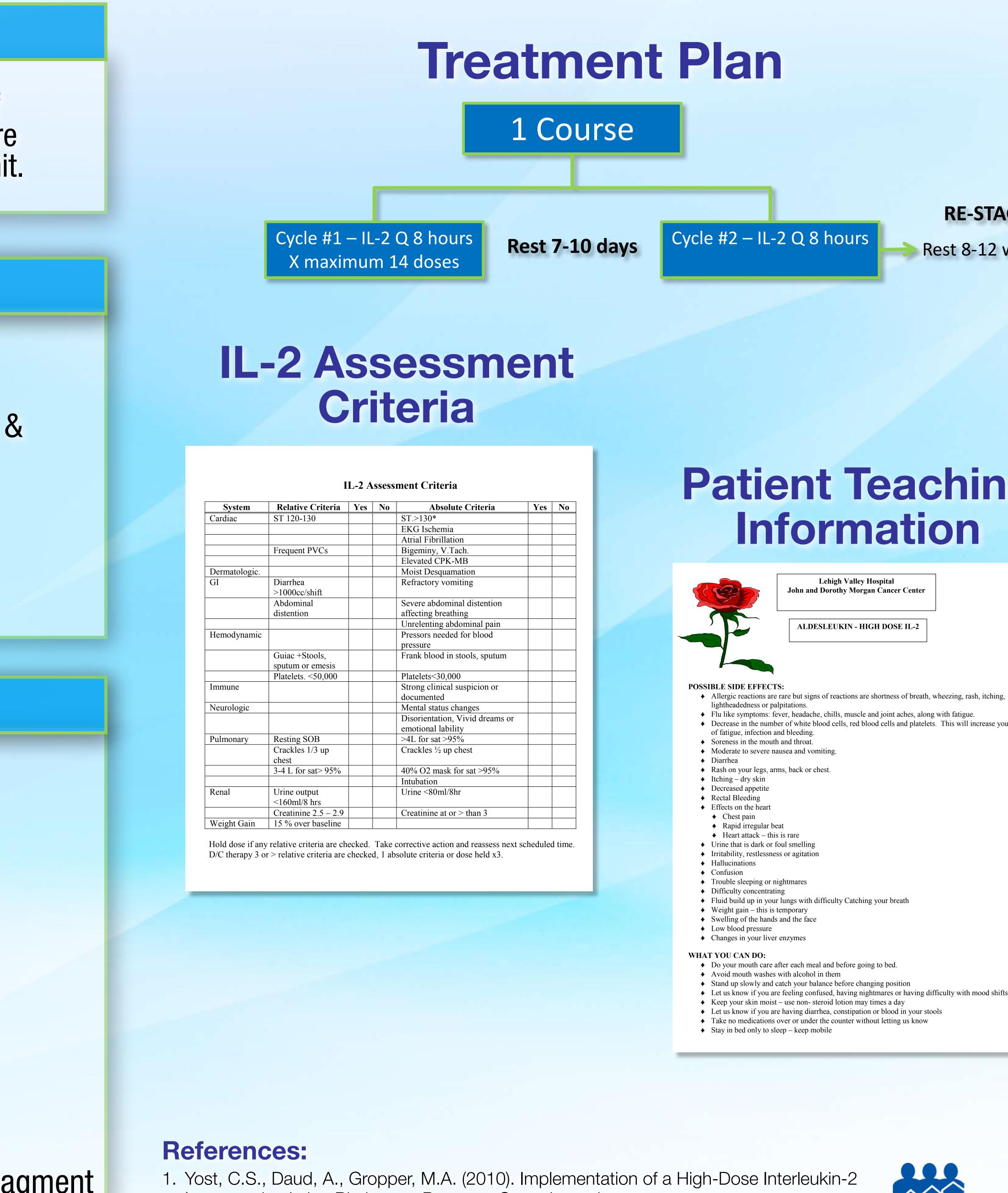
• 3:00 pm; 11:00 pm; 7:00 am

Managed Solely by Attending Physician

No residents or fellows

Routine Administration

- Strict fluid management
- Electrolyte replacement
- Oxygen titration
- Antiemetic administration
- Aggressive side effect managment to allow next dose



- Immunostimulation Biotherapy Program. Sage Journals.
- 2. Eisenberg, S. (2012). Biologic Therapy. *Journal of Infusion Nursing*. 35(5), 301-313.

Key Factors for Success

- Private rooms
- Flexible staffing patterns to support 1: 2 nurse/ patient ratio
- Clinical practice guidelines with nurse driven protocols
- Commitment between nurses, providers and ancillary personnel to prioritize communication for the IL-2 patient
- Promotion of family presence at patient's bedside 24/7 and participate as partner in care

Outcomes

Patients Treated

• 43 stage-4 melanoma and 23 stage-4 renal cancer patients

Mortality During Treatment

- 0%
- 4 patient transfers to higher level of care
- 8 patients disease-free, equal to NCI national experience

PICC Line Infections

• 0% (n=300)

Average Length of Stay

• 4 days, comparable to the national average

Patient Satisfaction Scores

• Consistently mid-90's, > peer group and Magnet[™] hospital scores



RE-STAGE

Rest 8-12 weeks

Patient Teaching Information

Lehigh Valley Hospital ohn and Dorothy Morgan Cancer Center

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