

# LOS ANGELES GENERAL MEDICAL CENTER STANDARDIZED PROCEDURE

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| Subject:<br><b>Ordering Laboratory Tests Prior to Chemotherapy, Biotherapy, and Immunotherapy by Chemotherapy Certified Registered Nurses or Infusion Nurses in Infusion Clinics for Adult Patients Standardized Procedure</b> | Original Issue Date: 7/5/2023  | Standardized Procedure # |
|  | Supersedes:  | Effective Date:<br>7/23  |
|  | Reviewed & Approved by:<br>Professional Practice Committee<br>Nurse Executive Committee<br>Interdisciplinary Practice Committee<br>Attending Staff Association Executive Committee |                          |

## **POLICY:**

### **Function:**

Ordering Laboratory Tests Prior to Chemotherapy, Biotherapy and Immunotherapy by Chemotherapy Certified Registered Nurses or Infusion Nurse in Infusion Clinics for Adult Patients Standardized Procedure is utilized to allow authorized nurses to order required chemotherapy related laboratory tests prior to administration of medications in Appendix B, as well as new medications which are approved for use at the Medical Center, upon notification by the US Food and Drug Administration and consultation of the Pharmacy Department.

When a patient is scheduled for an appointment for chemotherapy, biotherapy or immunotherapy administration, the Registered Nurse will review the chemotherapy order and order the required tests for the specific chemotherapy agent within 72 hours prior to treatment.

Only chemotherapy-certified Registered Nurses (RNs) or Infusion Nurses under the direction of a Nurse Practitioner or Physician, are authorized to initiate this standardized procedure after completion of training and after providing evidence of competency.

### **Circumstances under which RN may perform function:**

Only Registered Nurses are authorized to initiate this standardized procedure after completion of training and after providing evidence of competency.

### **Setting:**

The procedure may be performed in the adult infusion clinics.

### **Supervision:**

The Nurse Manager/Designee is responsible for the supervision of the RN staff.

### **Protocol/Procedure:**

The RN will order the appropriate laboratory tests in the Electronic Healthcare Record as indicated in Appendix A:

### **Circumstances Requiring Consultation:**

Notify provider of abnormal lab values and do not administer chemotherapy until directed to do so by the provider.

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**Record Keeping:**The laboratory tests are ordered in the Electronic Health Record

**Training and Competency:**

Training is done on every medication given in the infusion clinic during didactic and clinical portion of the Chemotherapy Certification Course. Education is also given by a provider on any new medications approved to be given at Los Angeles General Medical center between annual trainings.

Competency is demonstrated by testing and return demonstration during the clinical component of Chemotherapy Certification Course and annually.

Only those RNs that have documented evidence of the above stated training and competency will be allowed to perform this standardized procedure. Written evidence of training and competency will be maintained by the Nurse Manager and filed in the employee area personnel file.

**Review:**

Ordering Laboratory Tests Prior to Chemotherapy, Biotherapy and Immunotherapy by Chemotherapy Certified Registered Nurses or Infusion Nurses for Adult Patients Standardized Procedure shall be reviewed a minimum of every 3 years.

**References:**

Olsen, M. M., LeFebvre, K. B., & Brassil, K. (2019). Oncology Nurses Society Chemotherapy and Immunotherapy Guidelines and Recommendation for Practice. Oncology Nurses Society, Pittsburgh.

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## APPENDIX A

| Medication   | Required Laboratory Monitoring   | Generally Acceptable Values   |
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| <i>Cytotoxic chemotherapy (additional requirements for specific medications below)</i>                     | <ul style="list-style-type: none"> <li>CBC with differential (including platelet &amp; ANC)</li> <li>Comprehensive metabolic panel (including SCr, AST, ALT, Tbili)</li> <li>Type and cross/screen</li> <li>Pregnancy test on all women under age 55 still with menstruation</li> <li>PT/INR (if indicated)</li> </ul> | ANC 1 to 10K<br>Plt greater than or equal to 100K<br>SCr less than or equal to 1.5 mg/dL<br>AST less than 3 x ULN<br>ALT less than 3 x ULN<br>Tbili less than or equal to 1.5 mg/dL |
| Infliximab   | Pregnancy Test   |   |
| <b>Specific Medication Requirements</b>  |  |   |
| <i>Biologic chemotherapy (requirements in addition to those listed under Cytotoxic chemotherapy above)</i> |  |   |
| Alemtuzumab  | TSH every three months   | TSH without significant change  |
| Arsenic trioxide   | Potassium, magnesium every week  | Potassium greater than 4 mEq/L<br>Magnesium greater than 1.8 mg/dL  |
| Atezolizumab   | All requirements for cytotoxic chemotherapy<br>TSH every month   | All requirements for cytotoxic chemotherapy<br>TSH without significant change   |
| Avelumab   | All requirements for cytotoxic chemotherapy<br>TSH every month   | All requirements for cytotoxic chemotherapy<br>TSH without significant change   |
| Bevacizumab  | UPr every month  | UPr less than 100 mg/dL (2+ dipstick)   |
| Cabazitaxel  | ANC with each dose   | ANC 1.5 to 10K  |
| Cetuximab  | Magnesium every month  | Magnesium greater than or equal to 1.7 mg/dL  |
| Cyclophosphamide   | ANC every week or with each dose (whichever is less frequent)  | ANC 1.5 to 10K  |
| Docetaxel  | ANC with each dose   | ANC 1.5 to 10K  |
| Eculizumab   | Pregnancy Test   |   |
| Interferon alfa-2b   | TSH every three months   | TSH without significant change  |

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|               | Triglycerides every three months                               | Triglycerides less than 500 mg/dL  |
| Ipilimumab    | All requirements for cytotoxic chemotherapy<br>TSH every month | All requirements for cytotoxic chemotherapy<br>TSH without significant change                |
| Natalizumab   | Pregnancy Test   |  |
| Necitumumab   | Magnesium with each dose                                       | Magnesium greater than or equal to 1.7 mg/dL   |
| Nivolumab     | All requirements for cytotoxic chemotherapy<br>TSH every month | All requirements for cytotoxic chemotherapy<br>TSH without significant change                |
| Ofatumumab    | Hepatitis B panel at baseline                                  | Hepatitis B panel without evidence of current or prior infection, or therapy with tenofovir  |
| Panitumumab   | Magnesium every month  | Magnesium greater than or equal to 1.7 mg/dL   |
| Pegaspargase  | Triglycerides every month                                      | Triglycerides less than 500 mg/dL  |
| Pembrolizumab | All requirements for cytotoxic chemotherapy<br>TSH every month | All requirements for cytotoxic chemotherapy<br>TSH without significant change                |
| Pemetrexed    | ANC with each dose   | ANC 1.5 to 10K   |
| Ramucirumab   | UPr every month  | UPr less than 100 mg/dL (2+ dipstick)  |
| Rituximab     | Hepatitis B panel at baseline                                  | Hepatitis B panel without evidence of current or prior infection, or therapy with tenofovir  |
| Romidepsin    | Potassium, magnesium with each dose                            | Potassium greater than or equal to 3.5 mEq/L<br>Magnesium greater than or equal to 1.7 mg/dL |
| Temsirolimus  | Triglycerides every three months                               | Triglycerides less than 500 mg/dL  |
| Tocilizumab   | Pregnancy Test   |  |
| Trabectedin   | ANC with each dose   | ANC 1.5 to 10K   |
| Ustekinumab   | Pregnancy Test   |  |

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Vedolizumab

Pregnancy Test

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