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<b>Title:</b> Pre-Operative Tests	<ul> <li>Medical Directive</li> </ul>				
<b>Document #:</b> 8289	<b>Issuing Authority:</b> VP Clinical Programs/Chief Nurse Executive, Administration				
Last Revised Date: 6/17/2020		Version Number: 1.0 (Current)			

Order and/or Delegated Procedure:	Appendix Attached: ⊠ Yes ☐ No				
	Title: Routine Pre-operative Test Protocol				
Performance of laboratory and diagnostic tests for specified patients prior to surgical procedures in the Operating Room.					
Recipient Patients:	Appendix Attached:  Yes No Title:				
Surgical patients prior to surgery.					
Authorized Implementers:	Appendix Attached: ☐ Yes ☒ No Title:				
Nurses with the knowledge, skill and jud	dgment will follow the medical directives.				
Indications:	Appendix Attached:  Yes  No Title: Routine Pre-operative Test Protocol				
See appendix A.					
Contraindications:					
Not applicable.					
Consent:	Appendix Attached: ☐ Yes ⊠ No Title:				
Guidelines for Implementing the	Appendix Attached: ⊠ Yes ☐ No				
Order / Procedure:	Title: Routine Pre-operative Test Protocol				
See appendix.					
Documentation and Communication:	Appendix Attached: ☐ Yes ⊠ No Title:				
Implementation of this medical directive will be documented by the implementing nurse in the patient's chart.					
All assessments, interventions and outcomes will be documented in e-documentation using the appropriate documentation tools or on the appropriate paper documentation tools where e-documentation is not available.					

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Document #: 8289	Issuing Au Administrat	•	VP Clinical Pro	grams/Chief Nurse	Executive,
Last Revised Date: 6/17/2	2020		Version Num	ber: 1.0 (Current)	
Review and Quality Moni Guidelines:	toring	Appen	dix Attached:	☐ Yes ⊠ No	Title:
<ul> <li>The following processes will be used to maintain appropriate implementation of the directive and guide action if inappropriate, unanticipated and/or untoward outcomes result.</li> <li>a. This medical directive will be reviewed routinely one year after initial activation.</li> <li>b. This medical directive can be placed on hold if routine review processes are not completed, or if indicated for an ad hoc review. During the hold, staff cannot perform the procedure under authority of the directive.</li> </ul>					
Administrative Approvals (as applicable):		Appen	dix Attached:	☐ Yes ⊠ No	Title:
Mariana Markovic, Clinical Director					
Approving Physician(s)/Authorizer(s):		Appen	dix Attached:	☐ Yes ⊠ No	Title:
Dr. David Downie, Chief of	Surgery				

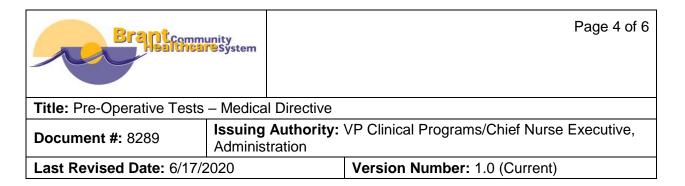
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#### Appendix A – Routine Pre-operative Test Protocol

- For patients with complex or uncommon surgical or medical conditions, test beyond what is suggested in this grid may be appropriate
- Tests are valid for 3 months provided there has been no interim change in the patient's condition which is determined
  by the Registered Nurse in collaboration with the anaesthetist and surgeon in day surgery.
- <u>Elective Cholecystectomy</u> require an extended hepatic profile: ALT, ALP, GGT, Bilirubin and Albumin within 4 weeks to the Day of Surgery. Then consider all patient comorbidities for further preoperative tests required.

On language the disease the second se								
Order all indicated tests, based on the type of	ODO	F00		Cr	0.	INID	DTT	
Surgery, the Patient's Age, Exercise Tolerance,	CBC	ECG	Elec	and	Glucose	INR	PTT	Hepatic
Medical Comorbidities and Drug Therapies				eGFR				
Age, Surgery and Exercise Tolerance (E.T.)	No routingly indicated toots if nations is asharuing healthy							
Minor surgery, age less than 50, any E.T.	No routinely indicated tests if patient is otherwise healthy  No routinely indicated tests if patient is otherwise healthy							
Minor surgery, age greater than or equal to 50, E.T. greater or equal to 4 METs	No rout	inely ina	icated tes	sts ir pati	ent is otr	nerwise n	ealtny	
Minor surgery, age greater than or equal to 50, E.T. less than 4 METs	•	•						
Major surgery, age less than 50	•							
Major surgery, age greater than or equal to 50	•	•	•	•				
Hip and Knee Arthroplasty, Long bone surgery	•	•	•	•		•		
Medical Comorbidities								
Hypertension		•		•				
Cardiac disease, E.T. greater than or equal to 4 METs		•						
Cardiac disease, E.T. less than 4 METs	•	•						
Respiratory disease, E.T. greater than or equal to 4 METs	No routinely indicated tests for this comorbidity							
Respiratory disease, E.T. less than 4 METs	•	•						
Stroke / TIA / Peripheral Vascular Disease		•						
Renal disease	•	•	•	•				
Liver disease	•		•	•		•		•
Diabetes mellitus		•	•	•	•			
BMI greater than 40					•			•
High risk for malnutrition			•			•		•
Thyroid disease			•	Also ob	tain TSH	İ		
Malignancy (except basal cell ca.)								
High risk for anemia	•							
<u>Drug Therapies</u>								
Diuretic, ACE inhibitor, or ARB			•	•				
Warfarin, anticoagulants (re-draw for INR greater then 1.3)	•					•	•	
Oral Corticosteroids			•		•			

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Digoxin		•	•	Also obtain serum digoxin level	
<u>Transfusion Medicine Indications</u>					
Preoperative <b>Type and Screen</b> will be carried out using existing "Standard Blood Orders for Elective Surgical Procedures"					
guideline.					

### Other Preoperative Tests with Specific Indications

**Sickle cell screen**: With appropriate pre and post test counseling, preoperative sickle cell screen should be *offered* to patients of high risk ethnicity unless it has been previously performed, in which case it should be documented. *High risk ethnicity groups* include: African, Caribbean, Saudi Arabia, Northern Greece, Southern Italy, Southern Turkey and South Central India.

**Antiepileptic drug (AED) levels**: Should be obtained only for patients on Carbamazepine, Phenobarbitol, Phenytoin, or Valproic acid who meet at least one of the following criteria: (1) a history of unstable AED levels, (2) a seizure within the last 6 months, or (3) undergoing major gastrointestinal surgery.

# Legend - Tests

Elec	Electrolytes (sodium, potassium, chloride and bicarbonate)
CBC	Complete blood cell count
ECG	Electrocardiogram
INR	International normalized ratio
PTT	Partial thromboplastin time
Cr and eGFR	Creatinine and estimated Glomerular Filtration Rate
Hepatic	ALT, Alk Phos, will automatically reflex to AST and total bilirubin if initials tests are abnormal
CXR	Chest X-Ray
ACE	Angiotensin-converting enzyme inhibitors
ARB	Angiotensin II receptor blockers





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# Legend - Patient Characteristics

Major	_	tion of organs (laparoscopic or open incision) in the neck, thorax, pelvis or abdomen, (except					
Surgery		roscopic cholecystectomy);endovascular procedures; intracranial surgery, and neck surgery for					
	• • • •	ot basal cell carcinoma), major joint replacement or fusion, surgery involving free flap					
		onstruction, panniculectomy.					
Minor		es that do not meet the criteria for major surgery are deemed to be minor surgical					
Surgery	procedures.						
Cardiac	MI, Angina, CHF, '	Valvular heart disease, Atrial fibrillation or other Arrhythmia.					
Disease							
Renal	Gross proteinuria	or elevated creatinine.					
Disease							
Liver	_	hepatitis, cirrhosis, hepatic metastases and ethanol abuse (defined as average intake > 2					
Disease	standard drinks pe						
High Risk	Includes BMI less than 19, unintentional greater than or equal to 10% body weight loss over previous 6						
for	months, inflammatory bowel disease, oral, esophageal, gastric, and pancreatic malignancy.						
Malnutrition							
High Risk	Includes patients with a history of anemia, connective tissue disease (i.e. lupus, rheumatoid arthritis),						
for Anemia	inflammatory bowel disease, menorrhagia, gross hematuria or gastrointestinal bleeding.						
ARB	Angiotensin receptor blocker.						
E.T. in METs	Exercise tolerance refers to the exercise capacity of an individual as measured by their ability to endure						
	exercise and/or the maximum work load achieved during the exercise period. A MET is defined as the						
Exercise	resting metabolic rate, the amount of oxygen the body consumes at rest.						
Tolerance		Exercise tolerance in metabolic equivalents (METS), as reported by the patient's					
(E.T.) in	Greater than	response to completing one or more of the following activities or a more strenuous					
Metabolic	and equal to 4	activity, without having chest pain or dyspnea:					
Equivalents	METs	walk up a hill					
(METS)		•run a short distance					
	Less than and	If a patient has reported to have chest pain or dyspnea during any of the above activities					
	equal to 4	they have a ET less than 4 METs					
	METs						



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#### **Notes**

Preoperative Point of Care Pregnancy Testing will be carried out by preoperative staff for females of childbearing
age on the day of surgery. If female patient has menses they are considered of childbearing age.

<u>Exempt:</u> Pts who have had hysterectomy, TA patients, missed abortion, greater than or equal to 55 years of age

- There are no routine indications for preoperative pulmonary function tests, spirometry or arterial blood gases.
- There are no routine indications for preoperative urinalysis, save for specific surgeries where the mucosa might be breached (causing cystitis/pyelo).
- **Preoperative histories and physicals are also valid for 1 year**, provided there has been no interim change in the patient's condition.
- Re-draw INR on the day of surgery if the pre-operative INR greater then 1.3