Brantcommu	unity System	Page 1 of 6		
Title: Pre-Operative Tests	<ul> <li>Medical Directive</li> </ul>			
Document #: 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 diagnost in the Operating Room.	tic tests for specified patients prior to surgical procedures
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 juc	dgment will follow the medical directives.
Indications:	Appendix Attached: Xes No Title: Routine Pre-operative Test Protocol
See appendix A.	
Contraindications:	
Not applicable.	
Consent:	Appendix Attached:  Yes  No Title:
Guidelines for Implementing the Order / Procedure:	Appendix Attached: Xes No Title: Routine Pre-operative Test Protocol
See appendix.	
Documentation and Communication:	Appendix Attached: 🗌 Yes 🖂 No 🛛 Title:
Implementation of this medical directive patient's chart.	will be documented by the implementing nurse in the
	comes will be documented in e-documentation using the he appropriate paper documentation tools where e-

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Brantcommu	unity System	Page 2 of 6		
Title: Pre-Operative Tests	<ul> <li>Medical Directive</li> </ul>			
Document #: 8289	<b>Issuing Authority:</b> VP Clinical Programs/Chief Nurse Exe Administration			
Last Revised Date: 6/17/2020		Version Number: 1.0 (Current)		

Review and Quality Monitoring Guidelines:	Appendix Attached:  Yes  No Title:					
The following processes will be used to maintain appropriate implementation of the directive and guide action if inappropriate, unanticipated and/or untoward outcomes result.						
<ul> <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):	Appendix Attached:  Yes  No Title:					
Mariana Markovic, Clinical Director						
Approving Physician(s)/Authorizer(s):	Appendix Attached: Yes No Title:					
Dr. David Downie, Chief of Surgery						

Brantcomm	unity reSystem		Page 3 of 6
Title: Pre-Operative Tests – Medical		ctive	
Document #: 8289	Issuing Authority: Administration		VP Clinical Programs/Chief Nurse Executive,
Last Revised Date: 6/17/2020			Version Number: 1.0 (Current)

### 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.

			p				-	
Order all indicated tests, based on the type of				Cr				
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 routinely indicated tests if patient is otherwise healthy							
Minor surgery, age less than 50, any E.T.								
Minor surgery, age greater than or equal to 50, E.T. greater or equal to 4 METs	No rout	inely ind	icated te	sts if pati	ent is oth	erwise h	nealthy	
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			
Malignancy (except basal cell ca.)	•				_			
High risk for anemia	•							
Drug Therapies								
Diuretic, ACE inhibitor, or ARB			•	•				
Warfarin, anticoagulants (re-draw for INR greater	•					•	•	
then 1.3)								
Oral Corticosteroids			•		•			

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Brantcommunity HealthcareSystem			Page 4 of 6	
Title: Pre-Operative Tests - Medica		Directive		
<b>Document #:</b> 8289	<b>Issuing Authority:</b> VP Clinical Programs/Chief Nurse Exec Administration			
Last Revised Date: 6/17/2020			Version Number: 1.0 (Current)	

Digoxin		•	•	Also obtain serum digoxin level
Transfusion Medicine Indications				
Propertive Type and Screen will be carried out usin	a ovietin	a "Stand	ard Bloo	d Orders for Elective Surgical Procedures"

Preoperative **Type and Screen** 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			

Brantcomm Healthca	unity reSystem			Page 5 of 6
Title: Pre-Operative Tests – Medical		irective		
<b>Document #:</b> 8289	Issuing Authority: Administration		VP Clinical Programs/Chief Nurse	Executive,
Last Revised Date: 6/17/2020		Version Number: 1.0 (Current)		

# Legend – Patient Characteristics

Major	Resection of organ	ns (laparoscopic or open incision) in the neck, thorax, pelvis or abdomen, (except						
Surgery	laparoscopic chole	ecystectomy);endovascular procedures; intracranial surgery, and neck surgery for						
		ot basal cell carcinoma), major joint replacement or fusion, surgery involving free flap						
	reconstruction, pa							
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		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		cludes patients with a history of anemia, connective tissue disease (i.e. lupus, rheumatoid arthritis),						
for Anemia		el disease, menorrhagia, gross hematuria or gastrointestinal bleeding.						
ARB	Angiotensin recep							
E.T. in METs		refers to the exercise capacity of an individual as measured by their ability to endure						
		e maximum work load achieved during the exercise period. A MET is defined as the						
Exercise	resting metabolic r	ate, 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							
Metabolic	and equal to 4	activity, without having chest pain or dyspnea:						
Equivalents	METs	walk up a hill         eclimb a flight of stairs						
(METS)		<ul> <li>run a short distance</li> <li>cycling / biking</li> </ul>						
	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							

Brantcomm Healthca	unity reSystem		Page 6 of 6
Title: Pre-Operative Tests	- Medical Directi	ive	
<b>Document #:</b> 8289	Issuing Author Administration	rity: `	VP Clinical Programs/Chief Nurse Executive,
Last Revised Date: 6/17/2020			Version Number: 1.0 (Current)

#### 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.
- Exempt: 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