


Name of Policy:	<u>Hyperventilation during EEG</u>	
Policy Number:	3364-138-17	
Department:	Neurodiagnostic Services	
Approving Officer:	Senior Hospital Administrator	
Responsible Agent:	Director, Pulmonary Services	
Scope:	The University of Toledo Medical Center Neurodiagnostic Services	
		Effective Date: 6/1/2023 Initial Effective Date: 5/27/2014
<input type="checkbox"/> New policy proposal	<input checked="" type="checkbox"/> Minor/technical revision of existing policy	
<input type="checkbox"/> Major revision of existing policy	<input type="checkbox"/> Reaffirmation of existing policy	

Policy Statement

Activation procedures are performed during an EEG to induce, enhance, or better define abnormal EEG patterns. The most commonly used activation procedures are hyperventilation, photic stimulation, and sleep. Activation procedure should be used whenever possible and not medically contraindicated.

Procedure

Hyperventilation (HV) is breathing quickly and forcefully at a rate of 18-24 breaths per minute for 3-5 minutes.

1. Demonstrate, as well as explain, to the patient how to perform hyperventilation.
2. Explain the possible expected normal changes. These include dizziness, lightheadedness, tingling in the fingers, toes and around the mouth
3. HV should be performed on every patient, unless contraindicated.
 - a. Contraindications include

i. Intracranial hemorrhage	viii. Significant cardiopulmonary disease, COPD
ii. Increased intracranial pressure	ix. Uncontrolled or active asthma
iii. Pregnancy	x. Moyamoya disease
iv. History of Stroke or TIA	xi. Inability to cooperate
v. History of aneurysm	xii. Refusal
vi. Sickle cell	
vii. Recent myocardial infarction	

Approved by:	Review/Revision Date:
<u>/s/</u> Michael Taylor Director, Pulmonary Services <u>/s/</u> Russell Smith Senior Hospital Administrator	6/22/2023 Date 6/29/2023 Date 05/27/2014 06/01/2017 05/29/2020 06/01/2023 Next Review Date: 6/1/2026
Policies Superseded by This Policy:	