

## Schedule of Exams/Activities

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Note: Before reviewing the schedule of exams/activities for the electrodiagnostic, non-invasive cardiology and vascular laboratories, the entire WMS document should be read.

### Introduction

The schedule of exams/activities provides users with a comprehensive list of exams and select activities performed in the electrodiagnostic, non-invasive cardiology and vascular laboratories. Each exam/activity is assigned a four-digit code. Some are accompanied by a brief description.

The schedule that follows includes a list of the service recipient activities and non-service recipient activities that are specifically applicable to the electrodiagnostic, non-invasive cardiology and vascular laboratories. As well, it includes a list of miscellaneous and non-service recipient activities that are applicable to all of the functional centres mentioned.

Service recipient activities are unit-producing personnel activities that involve the delivery of services to or on behalf of a specific service recipient. These activities directly contribute to the fulfillment of the service mandate of the functional centre. In the electrodiagnostic, non-invasive cardiology and vascular laboratories WMS, the service recipient activity categories are diagnostic interventions.

Non-service recipient activities are unit-producing personnel activities that are integral to the functional centre's operations, but do not involve the delivery of services to service recipients. There are four non-service recipient activity workload categories - functional centre activities, organizational/professional activities, teaching/in-service and research. Unit-producing personnel may perform additional activities that may not be listed in the schedule of exams/activities. When establishing the master exam/activity profile it is important to include all such activities.

For those exams not found/listed in the schedule of exams/activities, please add to your master activity profile list, complete the form "Notification of Exam" and submit to CIHI.

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### Chart of Secondary Statistical Accounts

The data related to workload and number of exams is reported using the chart of secondary statistical accounts (account numbers 1 07 \*\* - Workload Units - Service

Recipient Activities - Diagnostic/Therapeutic, 1 90 \*\* - Workload Unit - Non-Service Recipient Activities, and 4 57 \*\* - In-House Exams - Diagnostic/Therapeutic.

## **Exam Count**

In order to standardize the recording and reporting of the number of exams performed in electrodiagnostic, non-invasive cardiology and vascular laboratories, the exam count indicated in the schedule of exams/activities should be recorded.

**In the electrodiagnostic, non-invasive cardiology and vascular laboratories an exam is a defined technical investigation/therapeutic activity using waveform analysis generated by electrical impulse or ultrasound to study one body structure, system or anatomical area that yields one or more views or waveforms for diagnostic and/or therapeutic purposes.**

## **Special Recording Instructions**

### Failed Exams

An attempted but failed exam is credited with the same exam count as a successful exam. The service activity statistics should be recorded using the same category of service recipient as if the exam had been completed.

### Miscellaneous Activities Section

The miscellaneous activities section listed in the schedule of exams/activities is intended for use by the electrodiagnostic, non-invasive cardiology and vascular laboratories functional centre.

### Exams Performed on Two or More Service Recipients Simultaneously

When two or more service recipients are undergoing an exam simultaneously, unit-producing service providers should record the actual time spent providing service recipient care. For example, if three service recipients were having an overnight polysomnogram that lasted 10.5 hours and required 9 hours of service recipient care, the service provider would record 540 workload units. The remaining 1.5 hours would be recorded as non-service recipient activities if appropriate. If this time were spent having breaks, workload would not be recorded.

If the functional centre collects workload on a service recipient-specific basis, each service recipient would then receive  $540/3 = 180$  workload units.

## **Outline**

The schedule of exams is organized in the following manner:

### Service Recipient Activities

- Electrodiagnostic Laboratories WMS
  - Electroencephalography (EEG)
  - Intensive Monitoring
  - Electromyography (EMG)
  - Electronystagmography (ENG)

Polysomnography  
 Evoked Potentials  
 Non-invasive Cardiology Laboratories WMS  
 Electrocardiography  
 Exercise Tolerance Testing  
 Pacemaker Analysis  
 Ambulatory Monitoring  
 Echocardiography  
 Special Exams  
 Vascular Laboratories WMS  
 Lower Extremity - Arterial Exams  
 Lower Extremity - Venous Exams  
 Upper Extremity - Arterial Exams  
 Upper Extremity - Venous Exams  
 Head and Neck Exams  
 Visceral Exams  
 Miscellaneous Activities for Electrodiagnostic, Non-Invasive Cardiology and Vascular Laboratories  
Non-Service Recipient Activities for Electrodiagnostic, Non-Invasive Cardiology and Vascular Laboratories  
 Functional Centre Activities  
 Organizational/Professional Activities  
 Teaching/In-Service  
 Research

### **Service Recipient Activities**

Service recipient activities are unit-producing personnel activities that involve the delivery of services to or on behalf of a specific service recipient. These activities directly contribute to the fulfillment of the service mandate of the functional centre.

In the electrodiagnostic, non-invasive cardiology and vascular laboratories WMS, the service recipient activity workload category is diagnostic intervention.

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### **Service Recipient Activities - Electrodiagnostic Laboratories**

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<b>Code</b>	<b>Exam Name and Definition</b>	<b>Exam Count</b>
<b>Electroencephalography (EEG)</b>		
0100	<b>EEG</b>	1
0120	<b>EEG with Insertional Electrodes</b> (i.e., sphenoidal, nasopharyngeal, styloid, etc.)	1

0150	<b>EEG with Sleep/Sleep Deprivation</b>	1
0160	<b>EEG with Sleep/Sleep Deprivation and Inserted Electrodes</b>	1
0190	<b>Quantitative EEG Analysis</b>	1
0210	<b>Transmission of EEG by Telephone/Telemetry</b>	0
0211	<b>Receipt of Telephone/Telemetric Transmission of EEG:</b> Includes receiving transmission of EEG from remote location including recording and providing instructions relating to exam.	1
0225	<b>EEG Electrocorticography:</b> Placement of surface electrodes and monitoring by technologist. May include active monitoring during electrical stimulation of the cortex.	1
0230	<b>EEG Sodium Amytal EEG Monitoring</b>	1
0235	<b>Electro-cerebral Silence:</b> Same as routine EEG with extra stimulation (i.e., pupil responses, pain stimuli to extremities, sternal pressure, double inter-electrode distance, etc.)	1
0240	<b>Magnetoencephalography</b>	1
<b>Intensive Monitoring</b>		
0300	<b>EEG Video Telemetry Monitoring:</b> Includes activities listed under EEG, as well as adjusting camera, recording videotape of service recipient, and taking spontaneous EEG. In the case of invasive monitoring, may attend the operating room to record electrode placement. May include active monitoring during electrical stimulation of the cortex.	1
0320	<b>Review of Videotape and Observations:</b> Includes reviewing the videotape and EEG findings, editing, preparing notes/reports.	0
0710	<b>Ambulatory Monitoring - Set Up (Hook-Up):</b> Includes calibration of recording apparatus, service recipient instructions (i.e., completion of diary), skin preparation, connecting electrodes, impedance measurements and corrections. The set-up may include polygraphic components (respiration, eye	0

	movement, ECG, submental and muscle movements etc.)	
0715	<b>Ambulatory Monitoring - Reading (Scanning):</b> Includes scanning, reviewing, analyzing the tape. Also includes recording all findings in the service recipient's file.	
	<b>Scanning performed at same facility</b>	1
	<b>Scanning performed at alternate facility</b>	1
0720	<b>Ambulatory Monitoring - Discontinue:</b> Includes removal of electrodes, cleaning of electrodes, cleaning of service recipient.	0
<b>Electromyography (EMG)</b>		
0460	<b>Nerve Conduction Study</b>	1
0470	<b>Needle EMG</b>	1
0475	<b>Surface EMG</b>	1
<b>Electronystagmography (ENG)</b>		
0500	<b>Electronystagmography (ENG):</b> Includes, where applicable, initial set-up, Saccade test, Gaze test, Pursuit test, Optokinetic test, Chair rotation, Positional test, Hallpike maneuver, Head shake maneuver and caloric stimulation test with/without ice water stimulation.	1
<b>Polysomnography</b>		
0700	<b>Overnight Polysomnogram:</b> Includes preparing service recipient for bed, hook up to polysomnograph, assisting service recipient during the night and at completion of the exam. Includes set-up, monitoring and discontinuing CPAP/BiPAP.	1
0730	<b>Multiple Sleep Latency Study (MSLT):</b> Includes application of electrodes as required to record EEG, EMG, EOG, and ECG and appropriate calibrations, performance of several nap sessions during the day, keeping service recipient awake between nap sessions, analysis of findings, preparing technical report.	1
0755	<b>Maintenance of Wakefulness Test:</b> To record periods of wakefulness during the day. Includes application of electrodes as required to record EEG, EMG, EOG, and ECG and appropriate	1

calibrations, performance of several recording sessions during the day, analysis of findings, preparing technical report.

0760	<b>Test Scoring Analysis - Overnight Polysomnogram/MSLT/Maintenance of Wakefulness:</b> Analysis/interpretation of findings, calculations, preparing/writing technical report, etc.	0
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### Evoked Potentials

#### Visual Evoked Potential Test (VEP)

0810	<b>Full field VEP, bilateral</b>	1
0812	<b>Hemi Field VEP, bilateral</b>	1
0814	<b>Flash VEP, bilateral</b>	1
0816	<b>Electroretinogram (ERG):</b>	1
0818	<b>Electro-oculogram (EOG):</b> Evaluates the resting potential of the eyes, which indicates functional ability, helps diagnosis of macular dystrophies, records potentials and calculates the light/dark ratio.	1

#### Auditory Evoked Potential Test (AEP)

0820	<b>Brainstem AEP, bilateral</b>	1
0822	<b>Middle Latency AEP, bilateral</b>	1
0824	<b>P300 Latency, bilateral</b>	1

#### Somatosensory Evoked Potential Test (SSEP)

0830	<b>Lower limb (per nerve/dermatome): Unilateral</b>	1
0831	<b>Lower limb (per nerve/dermatome):Bilateral</b>	1
0832	<b>Upper limb (per nerve/dermatome): Unilateral</b>	1
0833	<b>Upper limb (per nerve/dermatome): Bilateral</b>	1
0850	<b>Neuroelectrodiagnostic Intraoperative Monitoring:</b> May include Evoked Potential monitoring, Nerve Conduction Studies or other related activities carried out during the course of a surgical intervention in the operating room.	1

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## Service Recipient Activities - Non-Invasive Cardiology Laboratories

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<b>Code</b>	<b>Exam Name and Definition</b>	<b>Exam Count</b>
<b>Electrocardiography</b>		
0100	<b>Electrocardiogram (12 or 15 Lead or more), Resting:</b> Includes positioning service recipient and explaining exam, preparing the skin, applying electrodes, recording ECG strip, removing and cleaning electrodes, cleaning service recipient and equipment, etc. Also includes, where applicable, reviewing service recipient file and recording any service recipient or exam information.	1
0130	<b>Special Techniques:</b> Claim exam count when not done in conjunction with ECG.	1
<b>Exercise Tolerance Testing</b>		
0210	<b>Exercise Tolerance Test:</b> Includes the performance of a resting ECG pre and post exercise (i.e., treadmill, ergometer), recording an ECG during the exercise, and continuous monitoring of the service recipient during the course of the exercise. May also include blood pressure and oxygen saturation measurements.	1
0220	Exercise Tolerance Test WITH Radiopharmaceutical AND Persantin	1
0230	Exercise Tolerance Test WITH Radiopharmaceutical	1
0240	Exercise Tolerance Test WITH Ergonovine Provocation Test	1
<b>Pacemaker Analysis of All Modalities</b>		
0300	<b>Pacemaker Analysis WITHOUT Reprogramming:</b> Includes assessment of pacemaker function, where no reprogramming of pacemaker is needed or performed.	1
0304	<b>Pacemaker Analysis WITH Reprogramming:</b> Includes assessment of pacemaker function, where reprogramming of pacemaker is performed.	1
0360	<b>Pacemaker Implants/Implantable Cardiac Devices:</b> Claim exam count when analyzing threshold.	1
<b>Ambulatory Monitoring</b>		
0410	<b>Ambulatory Cardiac Monitoring - Set-up (Hook-up):</b>	0

	Includes providing instructions to service recipient (i.e., completion of diary), cleaning skin, connecting electrodes, verifying quality of recording.	
0420	<b>Scanning (Interactive Playback System):</b> An exam count is claimed when the technologist must physically scan/edit the entire tape to determine the presence or absence of anomalies.	
	Scanning performed at same facility	1
	Scanning performed at alternate facility	1
0425	Scanning (Full Disclosure Systems)	1
0430	<b>Ambulatory Monitoring - Discontinue:</b> Includes disconnecting electrodes and cleaning service recipient and equipment. It also includes discussing the diary with the patient to ensure accuracy of entries and legibility.	0
0440	Event Monitoring - Initial Visit/Set-Up	1
0450	<b>Ambulatory Blood Pressure Monitoring:</b> Includes hook-up, instructions to service recipient, and discontinue.	1
<b>Echocardiography</b>		
0510	Combined M-mode and Two-Dimensional Echocardiogram	1
	with contrast	0
0520	Combined M-mode and Two-Dimensional Echocardiogram with Spectra and/or colour Doppler, qualitative	1
	with contrast	0
0530	<b>Stress Echocardiogram</b> (exercise or pharmacological study)	1
0560	<b>Transesophageal Echocardiogram:</b> Includes M-Mode and Two-Dimensional Echocardiography and Transesophageal Echocardiography. May include contrast.	1
<b>Special Exams</b>		
0610	Tilt Table Testing	1



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## Service Recipient Activities - Vascular Laboratories

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Code	Exam Name and Definition	Exam Count
<b>Lower Extremity - Arterial Exams</b>		
0100	Segmental Pressure Measurements of Lower Extremity (ABI) - Single-Level with or without Great Toe Pressure Measurement	1
0105	Segmental Pressure Measurements of Lower Extremity (ABI) - Multi-Level with or without Great Toe Pressure Measurement	1
0106	Digital (Toes) Blood Pressure Measurement and/or Waveform Recordings	1
0110	Arterial Duplex Study of Lower Extremity, Bilateral	1
0112	Arterial Duplex Study of Lower Extremity, Unilateral	1
0115	Exercise or Hyperemia Testing	1
0120	Doppler Velocity Recordings (Continuous Wave) of Lower Extremity, Bilateral	1
0140	Arterial Duplex Study of Bypass Graft Only, Unilateral	1
0142	Arterial Duplex Study of Bypass Graft Only, Bilateral	1
0160	Direct Compartment Pressure Measurement for Compartment Syndrome WITH Exercise	1
0170	Arterial Plethysmography of Lower Extremities	1
0175	Skin PTC02 - Segmental, Pre and Post-exercise	1
0185	Evaluation of Popliteal Entrapment Syndrome, Bilateral	1
0190	Duplex Assessment of Lower Extremity Aneurysm (e.g., Popliteal)	
<b>Lower Extremity - Venous Exams</b>		
0200	Venous Duplex Mapping	1
0210	Venous Duplex Study of Lower Extremity for	1

	Deep Vein Thrombosis - Unilateral	
0215	Venous Duplex Study of Lower Extremity for Deep Vein Thrombosis - Bilateral	1
0220	Venous Duplex Study of Lower Extremity for Venous Insufficiency	1
0230	Venous Outflow Impedance Plethysmography, Bilateral	1
0235	Venous Doppler (Continuous Wave) Lower Limbs (Bilateral)	1
0250	Photoplethysmography for Venous Reflux, Bilateral	1

### **Upper Extremity - Arterial Exams**

0310	Duplex Study of Upper Extremity, Bilateral	1
0312	Duplex Study of Upper Extremity, Unilateral	1
0320	Doppler Velocity Recordings (continuous waveform) of Upper Extremity, Bilateral	1
0330	Segmental Pressure Measurements of Upper Extremity, Bilateral	1
0340	Digital (Fingers) Blood Pressure Measurement and/or Waveform Recordings	1
0345	Digital (fingers) Blood Pressure Measurement and/or Waveform Recordings WITH Cold Pressor Test	1
0350	Thoracic Outlet Syndrome Testing	1

### **Upper Extremity - Venous Exams**

0710	Venous Duplex Study Upper Extremity Unilateral	1
0720	Venous Duplex Study Upper Extremity - Bilateral	1

### **Head and Neck Exams**

0410	Duplex Study of Carotid Arteries with or without Subclavian and Vertebral Arteries	1
0430	Subclavian Steal Test	1
0440	Transcranial Doppler	1
0450	Duplex Study of Neck Veins	1

### **Visceral Exams**

0510	Duplex Study of Abdominal Arteries or Bypass (i.e., mesenteric, renal, splenic, hepatic, aorta), First Artery	1
0512	Each Additional Artery	1
0550	Ultrasound Assessment for Aortic Aneurysm	1
0560	Ultrasound Assessment of Abdominal Aneurysm (Other than Aortic), Bilateral	1
0580	Ultrasound Assessment of Abdominal Veins (e.g. Portal Vein, SMV, Renal Veins, IVC) - first vein	1
0582	- Each Additional Vein	1
<b>Miscellaneous</b>		
0610	Penile Arterial Study	1
0620	Duplex Study of Arterial/Venous Dialysis Graft	1
0640	Duplex Guided Compression of False Aneurysm, First Compression	1
0645	Each Additional Compression	0
0650	Evaluation of Sympathetic Tone Response	1
0655	Duplex Guided False Aneurysm Injections	1

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**Miscellaneous for Electrodiagnostic, Non-Invasive Cardiology and Vascular Laboratories**

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0910	Isolation Exams	0
	Includes additional time required to prepare to conduct an exam under isolation conditions. Note: Does not include performing the exam.	
0920	Professional Consultations	0
	Service Recipient/Medical rounds or discussions with other Health Care professionals regarding the provision of care to service recipients.	

0930	Staff Change Report	0
	Reporting between service providers regarding service recipient care, plans, progress, etc.	
0940	Service Recipient Teaching/Education/Emotional Support	0
	The activities associated with counselling of inpatient/resident/client, or groups of inpatients/residents/clients concerning treatment, related disease state and equipment. Also includes emotional support provided. Excludes instruction provided to service recipient when explaining exam.	

### **Non-Service Recipient Activities for Electrodiagnostic, Non-Invasive Cardiology and Vascular Laboratories**

Non-service recipient activities are unit-producing personnel activities that are integral to the functional centre's operations, but do not involve the delivery of services to service recipients.

There are four non-service recipient activity workload categories - functional centre activities, organizational/professional activities, teaching/in-service and research.

The following table lists the types of activities that are typically considered non-service recipient activities.

#### **Functional Centre Activities**

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Code	<b>Activity</b>
9010	<b>Functional Centre Management</b>
	Includes housekeeping/clerical activities; organizing; orienting personnel; recording and calculating workload and other statistical data; non-clinical documentation; compiling data for reports and management purposes; management activities related to discipline specific activity; development of discipline specific service programs, and participation in quality improvement activities.

- 9020      **Employee Meetings**  
Includes formal and informal meetings of functional centre staff for the purpose of disseminating and receiving information pertaining to the operation of the functional centre and the organization.
- 9030      **Caseload Management**  
Includes, but not limited to prioritization and assignment of service recipients within a caseload.
- 9040      **Maintenance**  
Includes, but not limited to activities such as maintaining a safe, tidy environment, activities related to maintenance of equipment and inventory control.
- 9050      **Quality Management**  
Includes time spent attending quality management meetings; performing and documenting activities that improve the quality of services delivered commensurate with functional centre policy and industry standards.
- 9060      **Travel**  
Includes internal and external travel associated with the functional centre activities listed above as well as travel associated with the provision of services to specific service recipients within the organization or in their home. Also includes portering of service recipients when performed by functional centre staff.

**Organizational/Professional Activities**

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<b>Code</b>	<b>Activity</b>
9110	<b>Board/Committee Functions</b> Functions/Activities performed during worked hours relating to the preparation, attendance and follow-up of health service organization board/committee functions.
9120	<b>Program Management</b> Management activities related to multidisciplinary programs(s) and program management activities related to the organization as a whole.
9130	<b>Public Relations</b>

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Activities directly associated with the public relations function of the health service organization. Includes, but not limited to, planning, meetings and participation in the event, e.g., Media interviews, information programs, preparing articles.

9140 **Advocacy-Professional Activities**

Includes services provided to the professional, scientific and local communities, agencies and service groups during worked hours.

9150 **Travel**

Includes any travel associated with organizational/professional activities.

**Teaching/In-Service**

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**Code      Activity**

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9210 **In-service education**

Includes receiving brief, usually in-house educational information presented by health service organization staff, orientation to new exams or equipment, grand rounds, and reading of professional articles, journals and books.

9220 **Teaching of students**

Activities associated with the preparation, orientation, instruction, supervision and/or evaluation of students either prior to, during, or immediately following their clinical placements. Excluded are service recipient related activities performed during the course of teaching. This type of activity is recorded under the appropriate service recipient activity category.

9230 **Teaching of Professionals**

Activities involved in the preparation, orientation, presentation and/or instruction of health service organization personnel.

9240 **Academic teaching**

Activities involved in the preparation and presentation of course/lecture material to students, evaluation of students as part of their academic curriculum.

9250 **Travel**

Includes travel associated with any of the above.

**Research**

**Research Project**

Formally designed and approved clinical investigations directed toward advancing knowledge in the field of health, and delivery of health services using recognized methodologies and exams. All activities performed during worked hours such as reviewing previous research, writing research proposals, compiling and analyzing data and report writing are included. Excluded are service recipient activities, which are provided as part of the research program. These activities are recorded in the appropriate category under service recipient activities.

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<b>Code</b>	<b>Activity</b>
9310	<b>Special Projects</b>
9320	<b>Travel</b> Includes any internal or external travel associated with research activities.

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