DPNCheck®

Nerve Conduction Screening test

SAMPLE VISUAL JOB AID

DPNCheck 2.0 - Model NC-040

DPNCheck Nerve Conduction Screening Test for Peripheral Neuropathy

DPNCheck Testing Procedure – DPNCheck 2.0 (Model NC-040)

Confirm the patient is a candidate for the DPNCheck screening. Advise patient about purpose of test and inform them that they will feel a series of 6-12 pulses that may feel like a snapping or tingling sensation. Inform the patient that you will start the DPNCheck screening following the steps below.

1

Step 1: Position the patient so that the **Outer Ankle Bone** to the **Midline of the calf** are accessible.

2

Step 2: Begin by prepping lower extremities area. Vigorously scrub (don't just rub) the test area with the preparation pad provided.

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Important Note: The device should **not be** connected to the laptop while testing patient.

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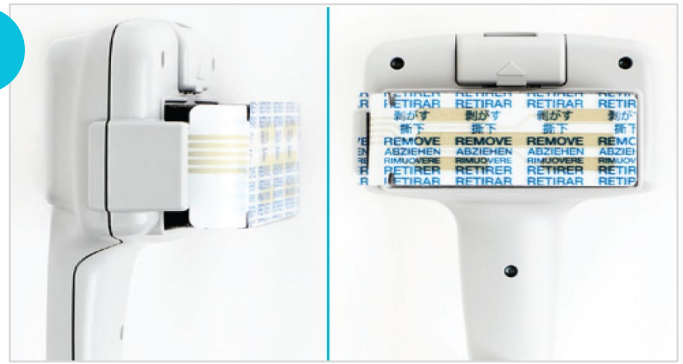
Step 3: Power the device on by pressing and releasing the button once. The display will prompt you if the battery needs to be replaced. You will then see the message to “Connect Biosensor.”

4



Step 4: Install the single-use biosensor into the port and align to the foam pad on all sides. Ensure the tail of the biosensor is inserted as far as it can go into the slot, and make sure the “**REMOVE”** label side faces up**.**

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Step 5: Confirm the biosensor is inserted properly by making sure the icon in the lower right of the screen appears white. Select limb that will be tested.

6

Step 6: Apply a pea-sized amount of the conduction gel to each probe. Be careful not to use too much gel. If it smears between the probes, it may interfere with your reading.

7

Step 7: Remove the backing from the single-use biosensor.

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Step 8: Locate the patient's outer Ankle Bone and align the long probe just behind it. Place the long probe in the soft spot halfway between the center of the outer ankle bone and the midline of the calf (Achilles tendon.) The short probe should fall in line just below it.
Tip: The probes should be behind and not over the ankle bone.

Step 9: Align the device on the lower calf by pushing down firmly on the foam. The device should point with the arrows directed to the back side of the knee with the **edge of the biosensor placed next to the midline** (Achilles tendon). Ensure that the device is aligned to, but does not cross over the midline as shown by the dashed line in the image below.

Step 10: Apply even pressure straight down on device. Check for good contact on both sides of foam pad. Before and during test, maintain firm and even pressure along entire device from the probes to the biosensor and from corner to corner across entire face of the biosensor pad.

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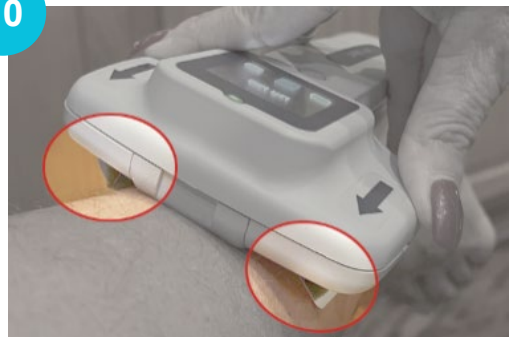

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Step 11: Press and release the button to start the test. The display will show “Testing…” and the light will blink with each stimulation. Maintain firm and even pressure throughout the test. Test time may vary per patient but normally lasts for 10-15 seconds.

Important note: Advise the patient to remain relaxed and still. Remind them that they might experience a series of 6-12 pulses and a slight snapping or tingling sensation at the ankle.

12

Step 12: The results will display once completed.

Retrieve Test Results After Shutoff:
If the test results are no longer visible on the screen or if the device has powered off, they can still be recalled. Disconnect the biosensor to review the last test results and press on the limb with the blue check mark to bring up results.
Ex: The screen pictured indicates that valid test results are available for Left limb. Press the limb with the check mark (e.g., L) to review results for that limb

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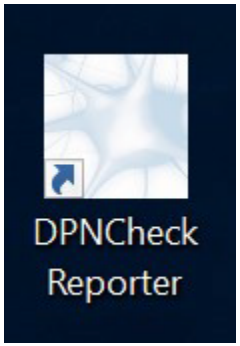
[Optional section included by request]
DPNCheck Report Upload (DPNCheck Reporter Software)

1



Follow the steps outlined below to transfer the most recent data from the **DPNCheck Device** to **DPNCheck Reporter**.

Step 1: Launch the **DPNCheck Reporter** from the desktop shortcut or Start Menu on your PC. Ensure that the Reporter application is open before you begin the data transfer.

2

Step 2: Connect the **USB** cable to the computer and to the DPNCheck Device.

Important note: If not already on, **power on** the **DPNCheck Device**, the screen on the device will then indicate that it is connected to the laptop.

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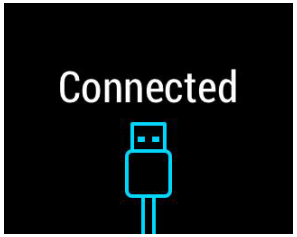
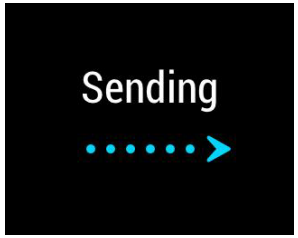
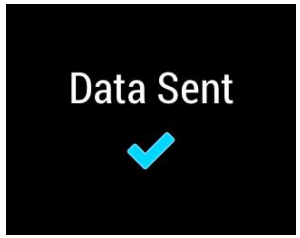
Step 3: After connecting the device to the PC with the USB cable, the device will display the following screen sequence:







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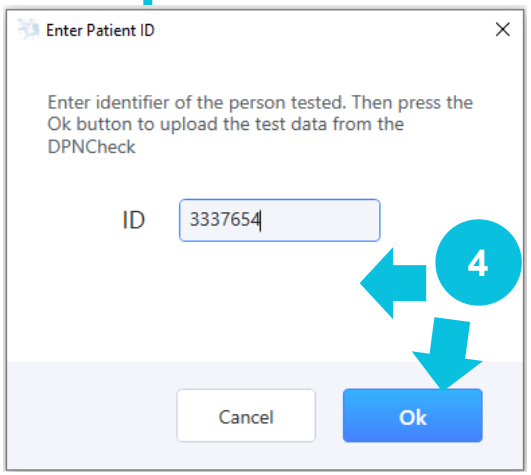
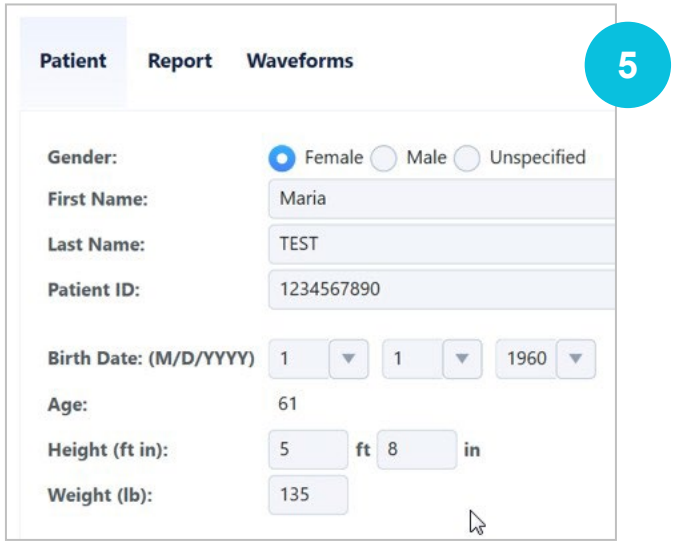


Step 4: Go to the **DPNCheck Reporter** application on the laptop. The **Enter Patient ID** box will display. Enter the **Patient ID (MRN#)** in the entry field and then click **OK**. The study data will transfer to the **DPNCheck Reporter** application, and the user can begin processing the study report.

Important note: A **Patient ID (MRN#)** must be entered to proceed.



Step 5: The **Patient Tab** will display. Complete the following optional and required fields:

- Select the patient **Gender**
- Enter the **Patient Name**
- Enter the **Patient ID (MRN#) – (Required)**
- Enter the **Patient's Date of Birth** (date may be entered manually or selected from the dropdowns). The Age field will automatically populate with the DOB entry.
- Enter Patient **Height**
- Enter Patient **Weight**

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Step 6: Select the Report **Tab**, and complete the following fields:

- Select name of the on-site **Supervising Provider** from the **Physician** drop down menu.
- Select name of **MA/Nurse** who performed the test from the **Technician** drop down menu.
- **Note** which colored box displays the dot in the **Interpretation Guide**, and click on the appropriate radio button in the **Interpretation** section of the report.
- To **Save** the report, click the "Complete" button to complete your study.
- To **Generate** and **Print** a PDF of the study, click the "**Report" button**. This will display the **PDF** on your screen.
- Click on the **Printer** icon on the top right of the PDF window. Print dialog box will display. Select the correct printer from Printer drop down and click **Print**.

- **Important note:** Only the printers previously mapped to the laptop will display.

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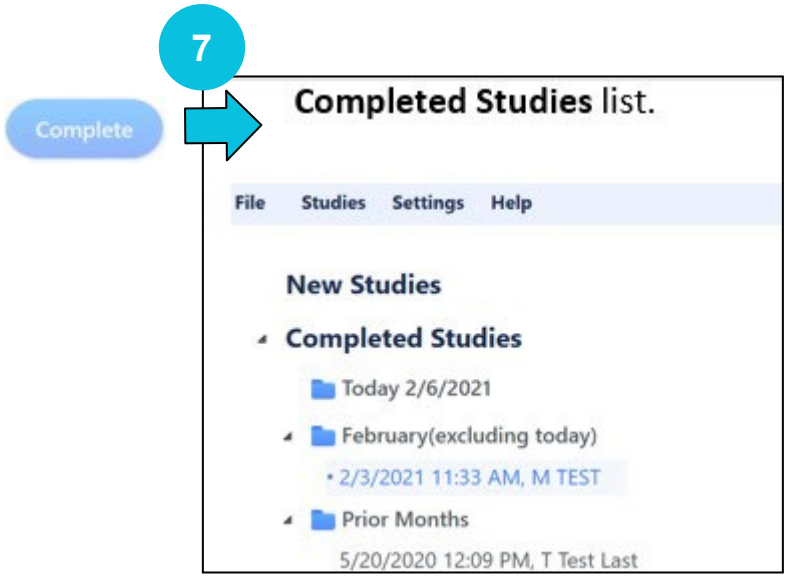
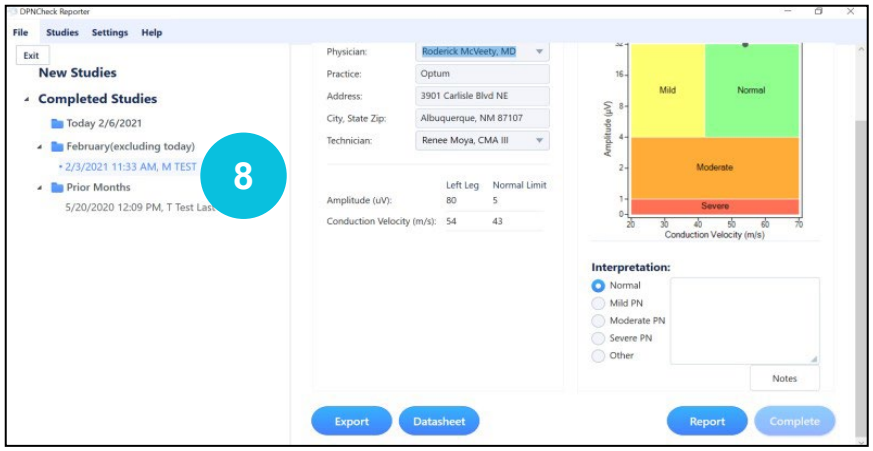


Step 7: When you are finished, your completed study will have been moved from the **New Studies** to the **Completed Studies** list.

Important note: **DPNCheck *Reporter*** automatically saves all entered data. **The DPNCheck *Device* does not save data**. If a test is performed on a second patient before generating a report from the **DPNCheck Reporter** application, the test for the previous patient **will be overwritten and lost.**



Step 8: Once the **PDF** is created it is automatically saved in the designated directory.

Important note: If a new report is generated for a study that has a previous report, the new report shall overwrite the previous Report; only one report shall be maintained for each study.

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Troubleshooting Guide

Key to error messages on display screen. See User Manual if more details are needed.

LED	Error Message	Help Screen
	⚠ L Biosensor Disconnected ?	Make sure biosensor tail is inserted then retest.
🔴	⚠ Device Locked ?	Excessive biosensor reuse detected. Device disabled. Call customer service.
🔴	⚠ L Device Malfunction ?	Device has malfunctioned. Repeat test. Contact customer service if message persists.
	⚠ L Excess Gel ?	Remove probe gel and reapply, make sure that gel does not smear on skin between probes.
	⚠ L Interference ?	Check biosensor liner removed, patient leg and foot are relaxed. If message persists, reposition patient.

LED	Error Message	Help Screen
	⚠ L Limb Not Confirmed ?	Repeat test with correct limb selected.
	⚠ L 22.5° C Patient Cold ?	Warm patient's ankle to at least 24C/75F before repeating test. Tester should keep hand away from probes.
	⚠ L Poor Probe Contact ?	Reapply probe gel, allowing time for gel to absorb into the skin. Use consistent probe pressure during test.
	⚠ L Poor Signal Quality ?	Check biosensor liner removed. Repeat skin preparation, apply consistent pressure to device during test.

LED	Error Message	Help Screen
	Replace Battery	
	⚠ L Test Error ?	An error has occurred. Repeat test.
	⚠ Upload Error ?	Check cable fully inserted in both device and PC. Call customer service if message persists.
	Waiting for PC Application ?	Connect DPNCheck to PC and open Reporter or Communicator.