

# Clinical Guidelines

## 1. Where the CarieScan PRO can be used

The CarieScan PRO is for detecting and monitoring caries on occlusal surfaces as well as smooth buccal and lingual surfaces on posterior teeth. It can measure on any natural enamel tooth surface that is accessible.

## 2. Preparing the tooth

Cleaning the tooth: Clean the tooth, removing all plaque using standard techniques.

Drying the tooth: Each tooth should be dried with air for 5 seconds. If revisiting the tooth for further measurements, after about 2 minutes, the tooth may require air drying again.

## 3. Proper technique for using the CarieScan PRO

It is essential to have stable contact with natural enamel tooth structure to obtain accurate results. Hold the device like a pen and use a finger rest (do not "sweep" the tooth). For occlusal surfaces, the tip ends should be pressed into pits and fissures with the same pressure you use to write with a pen. For smooth surfaces, the tips should be placed laterally against the tooth.

## 4. Things to consider to ensure that you get consistent readings

- Ensure that the collar and sensor are properly connected and that the sensor tip is in good condition.
- For repeat measurements, ensure that precisely the same position on the tooth surface been chosen. Moving the sensor tip even as little as 1mm can produce substantial changes in observed readings.
- Repeat readings can vary up to +/- 5 digits.
- Teeth that are not fully dried may have residual moisture present. If as a result the sensor becomes moist it is necessary to dry with air for 5 seconds.
- Ensure that the tooth has been correctly prepared, see 2.
- Perform a system test to ensure that all parts of the system are working. Check that the cable plug is pushed fully into the socket on the PRO.

## 5. What to do if you keep getting readings of 100

If the tooth has not been prepared correctly you may get a reading of 100. Check to make sure the tooth has been dried for 5 seconds and that the sensor tip is moisture free. See also 2.

## 6. What to do if you get a result other than what you expect

- Ensure that the field is clean and dry and the tip is well positioned.
- Ensure your sensor is moisture free by air drying the stainless steel tip for 5 seconds.
- Compare results with clinical visual and radio-graphic information if appropriate.
- Ensure that teeth have not become dehydrated (extended prophylaxis).
- See also 2 and 4.

## 7. What to do if your CarieScan PRO doesn't give a result

As part of your daily routine, perform a system test to confirm the cable is OK. Check that the blue light is flashing. If so, then make sure the lip hook is in contact with the lip, the tooth is not dehydrated and you are using it on natural enamel tooth structure. Try a different tooth to see if the issue persists.

## 8. What to do if the code "FAIL" appears when you do a system test

Check that the lip hook cable is properly attached to both the adaptor and the PRO. If the "FAIL" result is still displayed, your cable may be damaged. Please contact your distributor for a new cable.