Quality Resource Guide

Fourth Edition

Screening and Monitoring Blood Pressure in Dental Practice

Author Acknowledgements

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Educational Objectives

Following this unit of instruction, the learner should be able to:

- 1. Understand the rationale for determining and recording a patient's blood pressure in a dental practice.
- 2. Understand the proper technique for measuring blood pressure.
- 3. Recognize patient and technique factors that contribute to inaccurate blood pressure readings.
- 4. Understand the blood pressure levels that reflect the stages of hypertension.
- 5. Understand the precautions and treatment limitations associated with the various stages of hypertension.

MetLife designates this activity for 1.0 continuing education credits for the review of this Quality Resource Guide and successful completion of the post test.

The following commentary highlights fundamental and commonly accepted practices on the subject matter. The information is intended as a general overview and is for educational purposes only. This information does not constitute legal advice, which can only be provided by an attorney.

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Introduction

The CDC estimates that approximately one half of all US adults have high blood pressure with a prevalence of 47.7% between August 2021 -August 2023. Of those adults with hypertension, only 59.2% were aware of their hypertension (HTN) and only one-fifth have their condition under control. Consistently elevated high blood pressure is a major risk factor for cardiovascular disease, kidney disease, heart attack, stroke and chronic heart failure. Men are more likely to have HTN (50.8%) compared to women (44.6%). Approximately 664,470 American deaths in 2023 included HTN as a primary or contributing cause, which is up from about 500,000 in 2015. HTN costs the nation \$219 billion annually in direct and indirect medical expenses and missed days of work each year.1,2

Blood pressure (BP) is the force exerted by blood against the blood vessel wall. BP is a function of cardiac output and peripheral vascular resistance. Measurements can be made using invasive (usually in a hospital setting) and, more commonly, noninvasive techniques. When measuring BP with a non-invasive manometer, the pressure within the compression cuff is reflected by the level of the mercury in millimeters (mm HG) using a mercurygravity manometer or the position of the needle when using an aneroid manometer. The systolic blood pressure (SBP) is equal to the pressure at which the brachial pulse can first be palpated, or heard by auscultation, as blood flow is restored through the previously compressed vessel. The pressure at the moment the sound disappears marks the diastolic blood pressure (DBP).

HTN is an abnormal elevation in arterial pressure that can be asymptomatic. If sustained, it may lead to organ system damage or be fatal. HTN is a reliable indicator of cardiovascular function and correlates well with several other systemic diseases (see **Table 1**).

In 2017, the American College of Cardiology/ American Heart Association Task Force on Clinical Practice Guidelines' definition of HTN was any systolic BP measurement of 130 mmHg or higher or any diastolic BP measurement of 80 mmHg or higher. These guidelines continue to today (see **Table 2**).² Elevated blood pressure, a condition where blood pressures are higher than normal, but not yet in the high blood pressure range, raises an individual's risk of developing high blood pressure.

This Guide will review the role of the dentist in monitoring BP in dental practice (reviewing the proper techniques for measuring BP) and will briefly discuss guidelines for providing dental care to patients at different stages of HTN.

The Oral Healthcare Provider's Role in Measuring Blood Pressure

The dentist is responsible for several management considerations associated with a patient with HTN. These include: identification of those with undiagnosed disease (screening) with referral for appropriate medical assessment; detection and identification of irregularities and abnormalities associated with control of disease; support of lifestyle and compliance to assist medical management of disease; determination of need for stress/anxiety reduction; identification of possible drug interactions, and identification and management of adverse drug effects.

Adults are generally more likely to have a dental appointment than they are to go to a physician's office. This puts the oral health care provider in an ideal position to screen asymptomatic individuals for potential health issues, such as HTN. A screening BP is taken to identify patients who may have hypertension and not know it. It is

Table 1 - Hypertension's Effects on the Body

Organ System	Condition
Cardiovascular	 Myocardial infarction Coronary artery disease Heart failure Peripheral vascular disease Ventricular hypertrophy Arteriosclerosis Angina Aneurysm
Kidney	Kidney failure Glomerulosclerosis
Eye	Retinopathy Optic neuropathy
Neurologic	Transient ischemic attack Stroke Dementia Cognitive impairment
Genitourinary	Sexual dysfunction

not the dentist's role to diagnose HTN, but to refer the patient to their physician for evaluation and management. Early identification and referral of these individuals allows for early diagnosis and treatment, potentially reducing disease-specific morbidity and mortality. Abnormal BP detection in a patient receiving antihypertensive therapy may indicate resistance to treatment or low compliance. They should also be referred to their physician.

Table 2 - Classification of Blood Pressure²

Category	Systolic (mmHg)		Diastolic (mmHg)
Normal	< 120	and	< 80
Elevated	120-129	and	< 80
Hypertension - Stage 1	130-139	or	80 - 89
Hypertension - Stage 2	≥ 140	or	≥ 90
Hypertensive Urgency	> 180	and/or	> 120
Hypertensive Emergency	target organ damage		target organ damage

Routine BP measurement is the recommendation of the American Dental Association and the National Heart, Lung and Blood Institute (NHLBI). Minimally, blood pressure measurements should be obtained on all new patients and at recall examinations. Individuals with a history of HTN who are either non-compliant with medications or poorly controlled, as well as those with comorbid conditions (for example, stroke and/or cardiovascular disease), require more frequent monitoring. Measuring BP helps foster a better patient-provider relationship in the dental office, with many informed patients now expecting providers to record their BP during their dental visit.

How to Measure Blood Pressure

It is imperative that BP measurements be performed properly, as variances of just a few mmHg can move an individual from one stage to another. When BP is measured in the dental setting, it reflects what is happening during that moment in time. The dentist and/or any appropriately trained auxiliary in a dental office may measure BP and record this data. Many factors may influence blood pressure measurements. Patients should abstain from smoking, exercising, and consuming caffeinated beverages for at least 30 minutes before having their BP taken. Ideally, the BP is measured after the patient has rested comfortably for at least 5 minutes seated with their feet on the floor. If measurements are obtained while a patient is in the dental chair, their legs should be uncrossed. The patient should not talk while the BP is being taken.

The patient's arm should be abducted, slightly flexed, and supported by a smooth, firm surface. The brachial artery from which the blood pressure is to be recorded should be level with the heart. Arm level and degree of support/lack of support can significantly affect measurement accuracy. For example, if the arm is unsupported, the BP may be elevated by 3-5 mm Hg due to added hydrostatic pressure induced by gravity. Numerous other patient and technique-related factors can affect BP measurement accuracy (see **Table 3**).

When measuring BP, the manual method requires auscultation of the blood pressure, whereas an automated system depends on oscillometric devices. Each technique consists of a compressor cuff containing an inflatable rubber bladder enclosed in an inelastic covering and the pressure source consisting of a rubber hand bulb and pressure control valve. An appropriately sized cuff should cover 2/3 of the biceps; its bladder should be long enough to encircle >80% of the arm and have a width equal to at least 40% of the arm's circumference. Children require smaller cuffs and obese individuals require larger cuffs. The use of an inappropriately sized cuff may lead to erroneous BP measurements (Table 3).3

The deflated compression cuff is applied snugly around the arm. The lower edge of the cuff should be 2-3 cm above the ante-cubital fossa. The radial

pulse is palpated while the compression cuff is inflated to about 30 mm Hg above the pressure at which the radial pulse is no longer palpated. The cuff is then deflated at a rate of 2-3 mm Hg per heartbeat. The level of pressure at which the pulse in the radial artery returns is noted and recorded as the SBP. The DBP is the pressure recorded when the sounds disappear.

Abnormal blood pressure readings may be attributed to several patient factors, technique errors, and the type of device being used (see **Table 3**). One should avoid measuring BP in an arm if it has an arteriovenous fistula for hemodialysis, or if lymphedema is present following a mastectomy. The BP may vary between a patient's dominant and non-dominant arms. If you need to re-measure the BP, you should wait for 1 minute before taking the next reading.

Table 3 - Factors That Contribute to Errors in Blood Pressure³

Туре	Factor	Systolic (mmHg)	Diastolic (mmHg)	Duration
Patient	Heavy physical exertion	↓ 18 - 20	↓ 7 - 9	30 minutes
	Insufficient rest period	↑ 4 - 12	↑ 2 - 4	
	Daily stress	↑ 10	↑ 15	Several minutes
	Distended bladder or bowel	↑ 15	↑ 10	
	Eating a big meal	↓ 6	↓ 2-5	
	Caffeine	↑ 3 - 14	1 2 - 13	
	Talking during measurement	1 4 - 19	↑ 5 - 14	
	Tobacco/nicotine	↑ 3 - 25	↑ 2 - 18	30 minutes
Technique	Arm height not at heart level	↑ 4 - 23	↑ 3 - 12	
	Arm not supported	↑ 5	↑ 3-5	
	Rapid cuff deflation	↓ 3-9	↑ 2-6	
	Cuff size too small	↑ 2 - 11	↑ 2-7	
	Cuff size too large	↓ 1 - 4	↓ 1-5	

Devices

A mercury-gravity manometer consists of a uniform diameter straight glass tube with a reservoir containing mercury. The pressure chamber of the reservoir communicates with the compression cuff through a rubber tube. When pressure is exerted on the mercury in the reservoir, it falls, and the mercury in the glass tube rises. Since the weight of the mercury is dependent on gravity, which is constant, a specific amount of pressure will always support a column of mercury of the same height. The mercury- gravity manometer is the most accurate of all BP devices, does not require recalibration, and is the standard for measuring RP

An aneroid manometer consists of a metal bellows, which is connected to the compression cuff. Variations of pressure within the system cause the bellows to expand and collapse. The movement of the bellows rotates a gear that turns a needle, pivoted on bearings, across a calibrated dial. Since the blood pressure recorded with the aneroid manometer depends upon the elasticity of the metal bellows, it is subject to errors inherent in the elastic properties of metals. For this reason, the aneroid manometer must be calibrated against a mercury manometer at regular intervals (yearly).

Automated devices are fine for use by an individual at home to monitor their BP.4 In the dental office. however, they are often too inaccurate to be consistent. Results obtained from these devices have important clinical implications. For example, use of an inaccurate device may falsely indicate that a patient treated for hypertension is now normotensive and requires no further medication adjustment. The dental professional must understand that automated devices placed on the upper arm are less accurate than mercury-gravity and aneroid manometers. Automated devices used on wrists or fingers are even less accurate than those used on the upper arm. Devices for the wrists and fingers should be avoided altogether in a healthcare setting. Regardless of the device used, all must be appropriately calibrated and checked regularly for accuracy.4

Classification and Guidelines for Management of High Blood Pressure

Since 1980, the American College of Cardiology (ACC) and American Heart Association (AHA) have translated scientific evidence into clinical practice guidelines with recommendations to improve cardiovascular health. In December 2017, the ACC and AHA published Guidelines for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults.

The 2017 guidelines now define high blood pressure as systolic blood pressure (SBP) ≥ 130 mmHg or diastolic blood pressure (DBP) ≥ 80 mmHg. This means that more patients will be diagnosed with hypertension, but by doing so, it may lead to improved blood pressure control and reduce cardiovascular disease (CVD) risk in these patients. There is an understanding that a small percentage of them will be asked to take medications, but the majority will be recommended for nonpharmacological interventions with healthy lifestyle changes. Examples include the "Dietary Approaches to Stop Hypertension" (DASH) dietary program, weight loss, sodium reduction, increased physical activity, and reduction in the consumption of alcohol. Blood pressure thresholds and recommendations are illustrated in Figure 1.2

Dental Treatment for Patients with High Blood Pressure

Although acute adverse events associated with elevated BP are rare in the dental setting, some treatment modifications may be needed for the patient with a history of HTN. These considerations include reducing stress and anxiety, determining possible drug interactions with anesthesia or medications the dentist may use, and being aware of drug adverse effects and knowledge about how to manage them (Tables 4 and 5).

The ACC and AHA also assessed cardiac risk during non-cardiac surgical interventions.⁶ They categorized surgical procedures into high (>5%), intermediate (<5%), and low (<1%) risk. General dental procedures would logically be placed within the low risk category using the medical procedures (e.g., endoscopic intervention, cataract removal, etc.) in that category as a proxy.

The concept of functional capacity (the ability of the patient to meet the oxygen demands of the tissues when carrying out common daily activities in the presence of disease) is a valuable concept for the dentist to understand when managing patients with cardiac pathology. Functional stress is based on the physiology of maximum oxygen uptake, and treadmill exercise is the benchmarking standard. It is expressed in metabolic equivalents (METs), with one MET equating to the oxygen demand of a 70 Kg, 40 y/o male in the resting state with the absence of symptomology (shortness of breath, pallor, sweating, or chest pain). When daily activities become compromised due to disease, and oxygen demands of the tissues are not being met, the individual is more sensitive to the stress of surgical care and must be managed accordingly.

Combining these concepts (cardiac risk and functional capacity), the treated hypertensive patient, with a blood pressure in the normal range, is essentially functioning normally when undergoing routine dental care. As their pharmacologic management becomes more complex and/or end organ sequelae are present, the need to understand the interplay of surgical stress with patient-related factors (including functional capacity) becomes more relevant for the dentist when deciding whether or not to modify their treatment approaches.

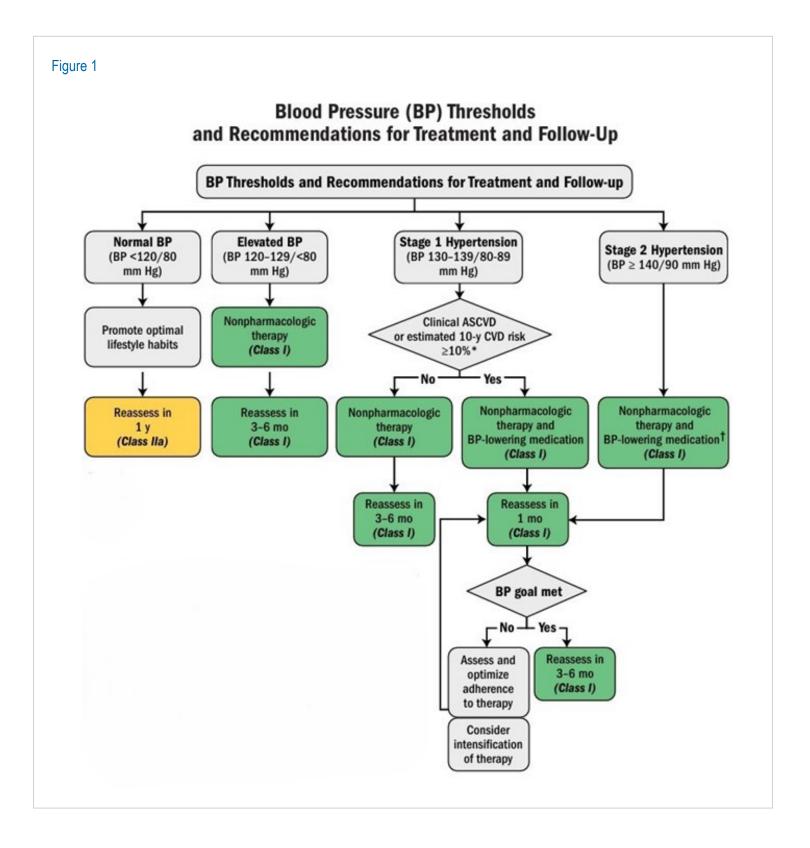


Table 4 - General recommendations based on blood pressure⁶

Blood Pressure	Dental Treatment Alterations	Physician Referral
≤ 120/80	None	None
120-139 / 80-89	None	Encourage MD visit
140-159 / 90-99	None	Encourage MD visit
160-179 / 100-110	Consider intraoperative BP monitoring	Within 1 month
≥ 180/110	Defer elective treatment	As soon as possible, immediately if patient is symptomatic

Table 5 - General dental management considerations

- ✓ Stress/anxiety reduction consider need for sedatives or anxiolytics or nitrous oxide
- ✓ Obtain profound local anesthesia, use of moderate amounts of epinephrine is fine
- ✓ Use caution with epinephrine (local anesthesia, retraction cord) if patient uses non-selective ß-blockers
- ✓ Slow chair position changes to prevent orthostatic hypotension
- ✓ Be aware of interactions between NSAIDs and ACE inhibitors, diuretics and ß-blockers
- ✓ Be aware of gingival overgrowth with calcium channel blocker (nifedipine) therapy; consider improved oral hygiene or consult with MD for possible change of medications
- ✓ Consider periodic intraoperative BP monitoring in patients with Stage 2 hypertension; terminate appointment if >180/110

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POST-TEST

Internet Users: This page is intended to assist you in fast and accurate testing when completing the "Online Exam." We suggest reviewing the questions and then circling your answers on this page prior to completing the online exam.

(1.0 CE Credit Contact Hour) Please circle the correct answer. 70% equals passing grade.

1. Which of the following statements is <u>FALSE</u>?

- a. Diastolic BP is the force caused by the contraction of the heart.
- b. Systolic BP is the force caused by the contraction of the heart.
- c. BP can be measured with both invasive and non-invasive methods.
- Blood pressure is not an important risk factor for other cardiovascular diseases.

2. Which of the following blood pressure devices is the MOST accurate?

- a. Mercury gravity
- b. Aneroid manometer
- c. Automated readers using the arm
- d. Automated readers using the wrist
- e. Automated readers using the finger

3. Operator techniques as well as patient factors can affect BP. Which of the following situations most commonly result in elevated BP?

- a. Heavy physical exertion
- b. Rapid cuff deflation
- c. Cuff size too large
- d. Eating a big meal

4. When taking a blood pressure, if the arm is unsupported, the blood pressure:

- a. Is unaffected compared to if the arm is supported at heart level
- b. May be decreased by 3-5 mm Hg
- c. May be decreased by 6-10 mm Hg
- d. May be increased by 3-5 mm Hg
- e. May be increased by 6-10 mm Hg

5. Your patient has a BP of 120/80. What is her classification?

- a. Normal
- b. Flevated
- c. Stage 1 Hypertension
- d. Stage 2 Hypertension

Sustained, uncontrolled high blood pressure can cause damage to all of the following organ systems <u>EXCEPT</u>:

- a. Cardiovascular
- b. Kidney
- c. Eve
- d. Brain
- e. Musculoskeletal

7. What is the most appropriate management recommendation if your patient's BP is 175/105?

- a. No alterations needed
- b. Consider intraoperative BP monitoring
- c. Defer elective treatment
- d. No restriction other than using retraction cord without epinephrine

8. There are potential drug/drug interactions associated with the concomitant use of NSAIDs and ACE inhibitors.

- a. True
- b. False

Incorrect assessments of BP is associated with all of the following <u>EXCEPT</u>:

- a. Wrist monitor
- b. Caffeine intake within 30 minutes of the measurement
- c. Talking while measurement is being obtained
- d. Sitting upright with feet flat on the floor

10. Blood pressure should be obtained at all of the following <u>EXCEPT</u>:

- a. All new patient examinations
- b. All recall patient examinations
- c. At every dental visit
- d. Prior to all surgical procedures

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11. Please identify future topics that you would like to see: