

Premedication and recent surgical contraindication guidelines

Cardiac & cerebrovascular considerations:

- Non-emergent dental treatment is contraindicated for at least 3 months following any cardiac or cerebrovascular event requiring hospital admission¹.
- Pre-medication is indicated for the following conditions^{2,3}:
 - Artificial heart valve.
 - History of infective endocarditis.
 - Congenital heart disease:
 - Unrepaired cyanotic CHD, including palliative shunts and conduits.
 - Completely repaired congenital heart defect for 6 months following the procedure.
 - Repaired CHD with residual defects.
 - Cardiac transplant patients who develop cardiac valvulopathy.
- If the prophylactic dose is inadvertently missed, it can be administered up to two hours after the procedure. This needs to be documented with a follow-up phone call.

Artificial joint considerations:

- Non-emergent dental treatment is contraindicated for 3 months following any joint replacement¹.
- Premedication may be indicated for individuals with weight bearing joint replacement (knee, hip) and the following comorbidities⁴:
 - History of infectious complications of the joint.
 - Weakened immune system, determined on an individual basis (possibly due to diabetes, cancer, rheumatoid arthritis, long term steroid use, see table).

Instead of premedication:

For patients who we no longer provide premed for, which will be the majority of them, rinse with chlorhexidine for 30 seconds prior to receiving dental treatment and note in chart.

The note for patients who still require or for whom the surgeon prescribes premedication:

Confirm that the patient took the correct drug and dosage as part of health history review. In the clinical note acknowledge what, how much, and when they took their premed. For example: "Pt reports taking 2g amoxicillin 1 hour prior to appointment as directed".

References:

¹ This is not a specific recommendation of any professional organization; opinion recommendations range from 0 to 6 months. If the patients doctor requests a longer timeframe we will defer to their recommendation.

² 2007 American Heart Association Guidelines for the Prevention of Infective Endocarditis.

³ What is Antibiotic prophylaxis (patient handout). *JADA*. April 2016.

⁴ The use of prophylactic antibiotics prior to dental procedures in patients with prosthetic joints. *JADA*. January 2015.



Blood pressure measured manually and confirmed three times	
Normal	< 120 < 80
Elevated	120-129 < 80
Stage 1 hypertension	130-139 80-89
Stage 2 hypertension	140-179 90-119
Emergent	≥ 180 ≥ 120
2017 recommendations from the ACC and AHA.	
Relative treatment contraindication	≥ 160 ≥ 100
Absolute treatment contraindication	≥ 170 ≥ 110

HbA1c	
Normal	≤ 5.6
Pre-diabetic	5.7 - 6.4
Diabetic	≥ 6.5

Functional immunosuppression	
White blood count (WBC)	< 2000
Absolute neutrophil count (ANC)	< 500
HbA1c	> 8

INR	
Low therapeutic range (target)	2.0-3.0 (2.5)
High therapeutic range (target)	2.5-3.5 (3.0)
Surgical contraindication	3.5+
INR is only an effective lab for patients on warfarin or coumadin, not patient's on newer classes of anticoagulants.	

Pregnancy	
First trimester (0-13 weeks)	Urgent-emergent care only; elective treatment contraindicated.
Second trimester (14-27 weeks)	Disease control allowable; safest time
Third trimester (28-42 weeks)	Disease control allowable; patient comfort increasing factor.
-Cleaning procedures are always allowable.	
-Elective procedures are best completed post-pregnancy.	

Local anesthetics			
Drug	Dose carpule ⁻¹	Pregnancy category (lactation category)	Max dose (absolute) [epinephrine]
20% topical benzocaine	---	C (unknown)	n/a
2% lidocaine with 1:100,000 epinephrine	34.0mg 0.017mg	B (L2: Safer)	3.6 mg/lb (500 mg) [0.2 mg]
4% articaine (septocaine) with 1:100,000 epinephrine	68.0 mg 0.018mg	C (unknown, may choose to pump & discard for 4 hours)	3.2 mg/lb (none) [0.2 mg]
3% carbocaine (mepivacaine)	51.0mg 0.0mg	C (unknown)	3.0 mg/lb (400 mg) [n/a]

Fluoride doses		
5 ml Pro-Den Rx rinse	5000 ppm	2 mg F ⁻
0.50 ml Vanish Varnish (adult dose)	22,600 ppm	11.3 mg F ⁻
0.3 ml Vanish Varnish (child dose)	13,560 ppm	6.8 mg F ⁻