

HYPERTENSION Cheat Sheet

by Teas via cheatography.com/181443/cs/37789/

CLASSIF. OF HPN DISORDER COMPLICATING PREGNANCY

- · Gestational Hypertension
- Preeclampsia
- Chronic Hypertension
- Superimposed Preeclampsia on Chronic Hypertension

CRITERIA FOR DIAGNOSIS OF HYPERT-ENSION

TABLE 53-1. Criteria for Diagnosis of Hypertension				
Blood Pressure (mm Hg)			Nonpregnant ACC/AHA	Pregnant ACOG
SBP		DBP		
<120	and	<80	Normal	Normal
120-129	and	<80	Elevated	Normal
130-139	or	80-89	Stage 1 HTN	Normal
140–159	or	≥90	Stage 2 HTN	Mild to moderate HTN
≥160	or	≥110	Stage 2 HTN	Severe HTN

GESTATIONAL HYPERTENSION

- BP ≥140/90mmHg for the 1st time during pregnancy after 20 weeks
- NO PROTEINURIA

PREECLAMPSIA

- BP ≥140/90mmHg
- PROTEINURIA
- 300 mg/24-hour urine sample (+) 1 dipstick
- Urine protein/creatinine ration of 0.3 mg/dL
- · Classification:
- Without severe features
- With severe features

PREECLAMPSIA - MNEMONIC

PREECLAMPSIA			
	RELICEP		
Thrombocytopenia	Platelet count <100,000/mL		
Renal Insufficiency	Creatinine >1.1mg/dL or doubling of the creatinine		
Liver Impairment	Liver enzymes 2x normal value		
Cerebral or Visual			
Symptoms			
Pulmonary Edema			

SEVERITY OF GESTATIONAL HYPERT-ENSIVE DISORDERS

TABLE 40-2. Indicators of Severity of Gestational Hypertensive Disorders ^a			
Abnormality	Nonsevereb	Severe	
Diastolic BP Systolic BP Proteinuria ^c	<110 mm Hg <160 mm Hg None to positive	≥110 mm Hg ≥160 mm Hg None to positive	
Headache	Absent	Present	
Visual disturbances	Absent	Present	
Upper abdominal pain	Absent	Present	
Oliguria	Absent	Present	
Convulsion (eclampsia)	Absent	Present	
Serum creatinine	Normal	Elevated	
Thrombocytopenia (<100,000/µL)	Absent	Present	
Serum transaminase elevation	Minimal	Marked	
Fetal-growth restriction	Absent	Present	
Pulmonary edema	Absent	Present	
Gestational age	Late	Early	

DIAGNOSIS OF SEVERE PREECL-AMPSIA

CRIT	ERIA FOR DIAGNOSIS OF SEVERE PREECLAMPSIA
BP of	f 160/110 mmHg
Thro	mbocytopenia (platelets <100,000/mL)
Rena	I Insufficiency (creatinine >1.1 mg/dL)
Liver	function Impairment / RUQ
Cere	bral or visual disturbances
Pulm	nonary edema

Gestational Hypertension vs Preeclampsia

• BP returns to normal within 12 weeks after delivery in GH

CHRONIC HYPERTENSION

- BP ≥140/90mmHg before pregnancy or diagnosed **before 20 weeks**
- Hypertension first diagnosed after 20 weeks gestation and persistent after 12 weeks postpartum

SUPERIMPOSED PREECLAMPSIA (ON CHRONIC HTN)

- Women with hypertension only in early gestation who develop proteinuria after 20 weeks of gestation
- Seizures that cannot be attributed to other causes in a woman with preeclampsia

CRITERIA

Women with hypertension and	Sudden exacerbation of hypertension
proteinuria before	Thrombocytopenia (platelets
20 weeks of	<100,000/mL)
gestation who→	Renal Insufficiency (creatinine
	>1.1 mg/dL)
	Elevation of liver enzymes
	Pulmonary edema
	RUQ pain/severe headache
	Substantial increase in
	proteinuria

SEVERE PEE, PEE (-)SEVERE FEATURES, GHPN

	GH and	Severe	Chronic
	preeclampsi	preeclam	hypertension
	a w/out	psia	
	severe		
	features		
MgSO4	X	٧	Х
AOG at	37 wks	34 wks	38 wks
delivery			
Anti-HPN	٧	٧	٧
	160/110m	160/110	160/110mm
	mHg	mmHg	Hg

WHEN TO START ASPIRIN?

 Low dose aspirin (81mg/day) prophylaxis is recommended in women at high risk of preeclampsia and should be initiated between 12 weeks and 28 weeks of gestation (optimally before 16 weeks) and continued daily until delivery

Clinical Risk Assessment for Preeclampsia

Risk	Risk Factors		Recommendation
Level			
High		History of preeclampsia, especially when accompanied by an adverse outcome Multifetall gestation Chronic hypertension Type 1 and 2 diabetes Renal disease Autoimmune disease (SUL APS)	Recommended low dose aspirin if the patient has one or more of these high- risk factors
Moderate	:	obested (John Mars) Nulliparity Obesity (BM) > 30) Obesity (BM) > 30) Permity history of preeclampsia Sociodemographic characteristics (dirtican American, low socioeconomic status) Age 35 years or older Personal history factors (LBW) SGA, Perevious adverse pregnancy outcome, more than 10-year pregnancy interval)	Consider fow dose aspirin if the patient has more the one of these moderate factors
Low		Previous uncomplicated full- term delivery	Do not recommend aspirin

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PATHOGENESIS OF HYPERTENSION

- Endovascular trophoblasts replace the vascular endothelial and muscular lining to enlarge the vessel diameter. The veins are invaded only superficially.
- Vasospasm
- · Endothelial damage

PREDICTORS OF PREGNANCY **INDUCED HYPERTENSION**

- · Roll over test
- · Uric acid
- Fibronectin
- · Coagulation activation
- Oxidative stress
- Cytokines
- Placental peptides
- Fetal DNA
- Uterine artery doppler velocimetry

PREDICTION OF PREECLAMPSIA

RECOMMENDATION: screening to predict preeclampsia beyond obtaining an appropriate medical history to evaluate for risk factors is not recommended

TREATMENT - CALCIUM

calcium/day
Daily, with the total daily
dosage divided into 3
doses (preferably taken
at mealtime)
Commence calcium
supplementation at the
first antenatal care
contact in order to
optimize compliance with
the regimen
All pregnant women,
particularly those at
higher risk of gestational
hypertension
Areas with low calcium
intake

Baseline Evaluation for Chronic HPN in **Pregnancy**

- Tests for Baseline Evaluation for Chronic Hypertension in Pregnancy

 Serum aspartate aminotransferase and alanine aminotransferase

 Serum creatinine

 Serum creatinine

 Serum celetrohytes (specifically potassiu Blood urea nitrogen Complete blood count Spot urine protein/creatinine ratio or 24 urine for total protein and creatinine (to

MAGNESUIM SULFATE



MAGNESUIM SULFATE - PHARMA-COLOGY

Loading dose: 4-6 grams IV

Only achieves the desired therapeutic level Can be safely administered regardless of renal function

Toxicology of Magnesium Sulfate

- · Magnesium intoxication is avoided be ensuring
- Urine output is adequate
- The patellar or biceps reflex is present
- No respiratory depression
- Therapeutic level: 4-7 mEq/L
- Toxic levels:
- 10mEq/L patellar reflexes disappear
- >10 mEq/L respiratory depression develops

MAGNESUIM SULFATE - PHARMA-COLOGY (cont)

- >12 mEq/L respiratory paralysis and arrest follow
- •Antidote: calcium gluconate, 1 g IV over 10 min period
- Maintenance dose: 1-2 grams/hour x 24
- Given during labor and continued up to 24 hours postpartum
- Dose reduced to half if creatinine ≥1.1 ma/dl

MECHANISM OF ACTION OF MAGNESIUM SULFATE

- CALCIUM ANTAGONIST
- · Decreases vasoconstriction
- · Decreases cerebral edema
- Decreases neuronal impulse transmission

MANAGEMENT OF SEVERE PREECL-AMPSIA <34 wks



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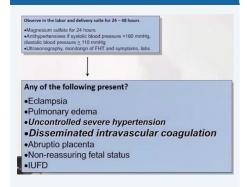
ANTIHYPERTENSIVES



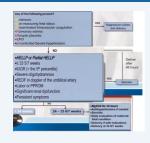
ANTIHYPERTENSIVES (cont.)

THE AIM OF ANTI-HYPERTENSIVE THERAPY IS TO KEEP THE SYSTOLIC BP BETWEEN 140-155 AND DIASTOLIC BP BETWEEN 90-100 mmHg

MANAGEMENT



MANAGEMENT (cont.)



HELP SYNDROME

Н	hemolysis	LDH > 600 U/L total Bili > 1.2 mg/dL abnormal PBS
EL	elevated liver enzymes	SGPT > 70 U/L
LP	low platelets	<100,000

ANTENATAL CORTICOSTERIODS



INDICATIONS FOR DELIVERY

- UNCONTROLLED HYPERTENSION
- ABSENT OR REVERSE END DIASTOLIC FLOW IN DOPPLER

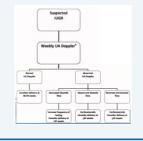
UNCONTROLLED HYPERTENSION



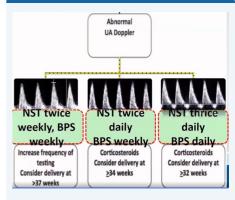
TIMING OF DELIVERY

 Prenatal management is aimed primarily at determining the IDEAL timing and mode of delivery

DOPPLER ULTRASOUND IN MANAGEMENT OF SUSPECTED IUGR



DOPPLER ULTRASOUND (cont.)



WHAT IS THE MODE OD DELIVERY?

The mood of delivery should be determined after considering the presentation of the fetus and the fetal condition, together with the likelihood of success of induction of labor after assessment of the cervix.

It is suggested that prolonged induction and inductions with low likelihood of success be avoided. In this regard, the pregnancies less than 32 weeks complicated by severe preeclampsia, with unfavorable cervical examination, CS may be recommended.

WHAT IS THE ANESTHSIA OF CHOICE?

In women with severe preeclampsia or even with eclampsia as long as the woman is awake, and seizure free, regional anesthesia, preferably epidural appears safer than general anesthesia

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