AN ASSESSMENT OF CARDIOVASCULAR DRUGS & THEIR ROLE IN

DRUG-INDUCED LUPUS

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2 TYPES OF LUPUS

DRUG-INDUCED LUPUS (DIL) & SYSTEMIC LUPUS ERYTHROMATOSUS (SLE)

SIMILARITIES

- Autoimmune diseases
- Presentation

PATIENT PROFILE

VARIABLE	DIL	SLE
Gender	1:1	9:1
Age	50-70 yo	29 yo
Onset	Mos. – yrs.	Hrsdays
Race	Whites > Blacks	Blacks > Whites

HOW COMMON IS DIL?

PREVALENCE 10% of SLE¹

• INCIDENCE 6.7%²

PROGNOSIS Excellent

Borchers AT, Keen CL, Gershwin ME. Drug-induced lupus. *Ann N Y Acad Sci.* 2007;1108:166-182.

Cameron HA, Ramsay LE. The lupus syndrome induced by hydralazine: a common complication with low dose treatment. *Br Med J.* 1984;289:410-412.

THE CULPRITS

CATEGORY	DRUGS
Antiarrhythmics	Procainamide
	Quinidine
Antihypertensives	Hydralazine
	Methyldopa
Antihyperlipidemics	Lovastatin
	Atorvastatin
	Gemfibrozil

Katz U, Zandman-Goddard G. Drug-induced lupus: an update. Autoimmun Rev. 2010;10:46-50.

DiPiro JT, Talbert RL, Yee GC, et al. Pharmacotherapy: A Pathophysiologic Approach. 9th ed. United States. The McGraw-Hill Companies, Inc. 2014. http://accesspharmacy.mhmedical.com.libproxy2.usc.edu/content.aspx?sectionid=48811477&bookid=689. Accessed June 2, 2016.

HIGH RISK PATIENTS

High dosing

Extended use

Slow acetylators

Family history

LAB FINDINGS

MARKER	DIL	SLE
Antihistone antibodies	> 95%	~ 50%
Anti-DNA antibodies	Anti-ssDNA	Anti-dsDNA

Burlingame RW. The clinical utility of antihistone antibodies. Autoantibodies reactive with chromatin in systemic lupus erythematosus and drug-induced lupus. *Clin Lab Med*. 1997 Sep. 17(3):367-78.

IDENTIFICATION OF DIL

No history of SLE
Clinical presentation
Drug discontinuation resolves DIL
Lab findings

WHY IDENTIFY DIL?

Unnecessary SLE treatment
Higher risk patient population
Cost
Correct billing: ICD-10 M32.0

DIL treatment: discontinue the drug

SUMMARY

Date of birth

Medication

record

CLAIMS DATA

50-70 yo

DIL

PATIENT PROFILE

associated

Dosing

drugs

Duration

Onset of symptoms

Lab findings

ID DIL

Improve pt outcome

Save on cost

Correct ICD10 M32.0

OUTCOME BETTER

Diagnostic information

Lab results

THANK YOU!

QUESTIONS?