

# 2020 Internal Medicine Review Course Syllabus

# Allergy & Immunology:

Page 13, Asthma — "Rule of 2s"

Text currently reads:	Text should read:
Control	Control
<ul> <li>Degree to which the manifestations</li> </ul>	<ul> <li>Degree to which the manifestations</li> </ul>
of asthma are minimized and the goal	of asthma are minimized and the goal
of therapy are met	of therapy are met
<ul> <li>Impairment: Symptom frequency</li> </ul>	<ul> <li>Impairment: Symptom frequency</li> </ul>
<ul> <li>&gt; 2× daily symptoms per week</li> </ul>	<ul> <li>&gt; 2× daily symptoms per week</li> </ul>
<ul> <li>&gt; 2× nightly symptoms per month</li> </ul>	<ul> <li>&gt; 2× nightly symptoms per month</li> </ul>
<ul> <li>&gt; 2× need for short-acting</li> </ul>	<ul> <li>&gt; 2× weekly need for short-acting</li> </ul>
β-agonist	β-agonist
<ul><li>Risk: Morbidity</li></ul>	<ul><li>Risk: Morbidity</li></ul>
<ul> <li>&gt; 2× emergency department visits</li> </ul>	<ul> <li>&gt; 2× emergency department visits</li> </ul>
or hospitalizations per year	or hospitalizations per year

# Allergy & Immunology: Page 19, Immunodeficiencies

Text currently reads:	Text should read:
Congenital Agammaglobulinemia	Congenital Agammaglobulinemia
<ul><li>a.k.a. Bruton's or X-linked</li></ul>	<ul><li>a.k.a. Bruton's or X-linked</li></ul>
<ul> <li>Mutation in Bruton tyrosine kinase →</li> </ul>	<ul> <li>Mutation in Bruton tyrosine kinase →</li> </ul>
Arrested B-cell development	Arrested B-cell development
<ul> <li>Recurrent sinopulmonary and</li> </ul>	<ul> <li>Recurrent sinopulmonary and</li> </ul>
ear infections	ear infections
<ul> <li>Encapsulated organisms</li> </ul>	<ul> <li>Encapsulated organisms</li> </ul>
<ul> <li>Staphylococcus, Streptococcus,</li> </ul>	<ul> <li>Staphylococcus, Streptococcus,</li> </ul>
Meningococcus, <b>Hemophilus</b>	Meningococcus, <mark>Haemophilus</mark>
<ul> <li>Enteroviral infection; giardia infection</li> </ul>	<ul> <li>Enteroviral infection; Giardia infection</li> </ul>
<ul> <li>Diagnosis: No antibodies; no B cells</li> </ul>	<ul> <li>Diagnosis: No antibodies; no B cells</li> </ul>
<ul> <li>Treatment: IVIG or SQIG <math>\pm</math> prophylactic</li> </ul>	$-$ Treatment: IVIG or SQIG $\pm$ prophylactic
antibiotics	antibiotics



# Allergy & Immunology: Page 19, Immunodeficiencies

Text currently reads:	Text should read:
Common Variable Immunodeficiency	Common Variable Immunodeficiency
<ul> <li>Failure on B-cell maturation into plasma</li> </ul>	<ul> <li>Failure on B-cell maturation into plasma</li> </ul>
cells	cells
<ul> <li>Recurrent sinopulmonary and ear</li> </ul>	<ul> <li>Recurrent sinopulmonary and ear</li> </ul>
infections	infections
<ul> <li>Encapsulated organisms</li> </ul>	<ul> <li>Encapsulated organisms</li> </ul>
<ul> <li>Staphylococcus, Streptococcus,</li> </ul>	<ul> <li>Staphylococcus, Streptococcus,</li> </ul>
Meningococcus, <b>Hemophilus</b>	Meningococcus, Haemophilus
<ul> <li>Bronchiectasis</li> </ul>	<ul> <li>Bronchiectasis</li> </ul>
<ul> <li>Enteroviral infection; giardia infection</li> </ul>	<ul> <li>Enteroviral infection; Giardia infection</li> </ul>
<ul> <li>Increased risk of autoimmune disease</li> </ul>	<ul> <li>Increased risk of autoimmune disease</li> </ul>
and malignancy	and malignancy
<ul> <li>Diagnosis: low IgG with low IgA or low</li> </ul>	<ul> <li>Diagnosis: low IgG with low IgA or low</li> </ul>
IgM; low B cells	IgM; low B cells
<ul> <li>Treatment: IVIG or SQIG ± prophylactic</li> </ul>	$ullet$ Treatment: IVIG or SQIG $\pm$ prophylactic
antibiotics	antibiotics

# Allergy & Immunology:

# Page 20, Audience Response Answers and Explanatory Information — AR 4

Text currently reads:	Text should read:
Explanation: The correct answer is D.	Explanation: The correct answer is D.
The patient most likely developed contact	The patient most likely developed contact
dermatitis from poison oak/ivy, consistent	dermatitis from poison oak/ivy, consistent
with a Type 4 delayed hypersensitivity reaction.	with a Type 4 delayed hypersensitivity reaction.
A. Type 1: Describes IgE-mediated reactions like anaphylaxis.	A. Type 1: Describes IgE-mediated reactions like anaphylaxis.
B. Type 2: Describes immunoglobulin- or antibody-mediated reactions like	B. Type 2: Describes immunoglobulin- or antibody-mediated reactions like immune
idiopathic/immune thrombocytopenic purpura.	thrombocytopenic purpura (ITP; formerly idiopathic thrombocytopenic purpura)
C. Type 3: Describes immune complex	C. Type 3: Describes immune complex
(antibody:antigen)-mediated disorders like serum sickness.	(antibody:antigen)-mediated disorders like serum sickness.
D. Type 4: Describes delayed cell-mediated	D. Type 4: Describes delayed cell-mediated
immune reactions like contact dermatitis.	immune reactions like contact dermatitis.



# Allergy & Immunology:

# Page 21, Audience Response Answers and Explanatory Information — AR 10

Text currently reads:	Text should read:
Explanation: The correct answer is C.	Explanation: The correct answer is C.
This vignette describes a classic case of serum	This vignette describes a classic case of serum
sickness.	sickness.
A. Type 1: Describes IgE-mediated reactions like anaphylaxis.	A. Type 1: Describes IgE-mediated reactions like anaphylaxis.
B. Type 2: Describes immunoglobulin- or antibody-mediated reactions like idiopathic/immune thrombocytopenic	B. Type 2: Describes immunoglobulin- or antibody-mediated reactions like immune thrombocytopenic purpura.
purpura.	C. Type 3: Describes immune complex
C. Type 3: Describes immune complex (antibody:antigen)-mediated disorders like serum sickness.	(antibody:antigen)-mediated disorders like serum sickness.
D. Type 4: Describes cell-mediated immune reactions like celiac disease.	D. Type 4: Describes cell-mediated immune reactions like celiac disease.

#### **Cardiology:**

#### Page 30, Hyperlipidemia > In CAL the HIGH DR was MODERN!

Text currently reads:	Text should read:
* Continue statins persons > 75 years of age	* Continue statins persons > 75 years of age
who have clinical ASCVD and are tolerating	who have clinical ASCVD and are tolerating
statin therapy	statin therapy
\$ if HIGH intensity contraindicated/side effects,	\$ if HIGH intensity contraindicated/side effects,
try moderate-intensity statin therapy	try moderate-intensity statin therapy
% if 10-yr ASCVD risk ≥ 20 use HIGH-intensity	% if 10-yr ASCVD risk ≥ 20 use HIGH-intensity
statin	statin
# Nonstatin Rx: 1st ezetimibe (10 mg) inhib. chol.	# Nonstatin Rx: 1st ezetimibe (10 mg) inhib. chol.
intestinal absorb.; If LDL not lowered 50%,	intestinal absorb.; If LDL not lowered 50%,
consider ezetimibe + statin with long half-life	consider ezetimibe + statin with long half-life
1–3 times/wk; e.g., rosuvastatin 20 mg twice/wk	1–3 times/wk; e.g., rosuvastatin 20 mg twice/wk
2 <sup>nd</sup> PCSK9 inhibitor (evolocumab, alirocumab)	2 <sup>nd</sup> PCSK9 inhibitor (evolocumab, alirocumab).
@ Also consider bile acid sequestrants	If elevated triglyceride levels despite statin
(colesevelam, cholestyramine, colestipol)	therapy, and cardiovascular disease or diabetes
	and multiple other risk factors, add icosapent
	ethyl (highly purified fish oil).
	@ Also consider bile acid sequestrants
	(colesevelam, cholestyramine, colestipol)



# Cardiology: Page 41, AR 14

Text currently reads:	Text should read:
A 51 yo man with MR is inactive and has a desk	A 51 yo man with MR is inactive and has a desk
job. He denies symptoms. He watches movies	job. He denies symptoms. He watches movies
and drinks beer on weekends.	and drinks beer on weekends.
PE: BMI 32 kg/m <sup>2</sup> , BP 115/70 mmHg, pulse	PE: BMI 32 kg/m <sup>2</sup> , BP 115/70 mmHg, pulse
80 bpm.	80 bpm.
CVS: PMI diffuse 5th ICS midclavicular line and	CVS: PMI diffuse 5 <sup>th</sup> ICS midclavicular line and
forceful, with a grade 4/6 systolic murmur heard	forceful, with a grade 4/6 systolic murmur heard
loudest at apex, radiating to the axilla.	loudest at apex, radiating to the axilla.
CXR: Prominent LV ECG: NSR, LAE, borderline LVH	CXR: Prominent LV; ECG: NSR, LAE,
TTE: Thickened myxomatous mitral valve, severe	borderline LVH
mitral regurgitation; EF 45%; LV end-systolic	TTE: Thickened myxomatous mitral valve, severe
dimension = 4.8 cm.	mitral regurgitation; EF 45%; LV end-systolic
	dimension = 4.8 cm.

# Cardiology: Page 52, AR 19

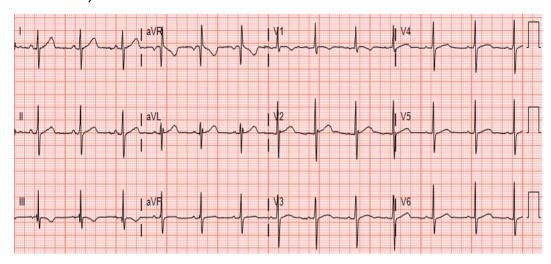
Text currently reads:	Text should read:
A 59 yo Hispanic male patient had a large	A 59 yo Hispanic male patient had a large
anterior STEMI 1 year ago, LVEF 15%,	anterior STEMI 1 year ago, LVEF 15%,
s/p 3-V CABG. He is retired, paints, and does	s/p 3-V CABG. He is retired, paints, and does
other activities of daily living.	other activities of daily living.
Meds: Carvedilol, valsartan/sacubitril, aspirin,	Meds: Carvedilol, valsartan/sacubitril, aspirin,
clopidogrel, furosemide, eplerenone, and	clopidogrel, furosemide, eplerenone, and
atorvastatin. Physical: HR 70 bpm,	atorvastatin. Physical: HR 70 bpm,
BP 125/85 mmHg, R 16 breaths/min	BP 125/85 mmHg, R 16 breaths/min
CVS: S1 S2 S3	CVS: S1 S2 S3
LUNGS: CTA Extremities: < 1 mm pedal edema;	LUNGS: CTA bilaterally;
ECG: NSR 70 bpm, old anterolateral MI	Extremities: < 1 mm pedal edema;
Echo (1 month ago): LVEF 29%, anterolateral	ECG: NSR 70 bpm, old anterolateral MI
hypokinesis, moderately dilated left vent	Echo (1 month ago): LVEF 29%, anterolateral
	hypokinesis, moderately dilated left vent

# MedStudy

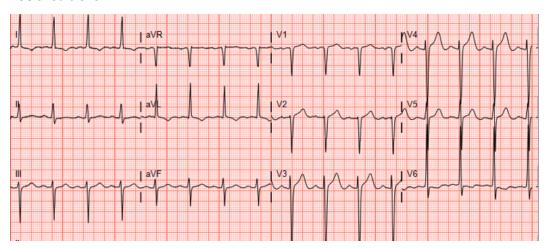
# **Cardiology:**

# Page 69, Left Axis Deviation

# ECG currently shows:



#### ECG should show:

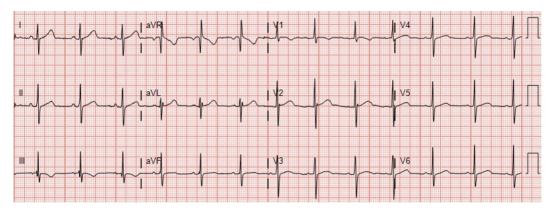




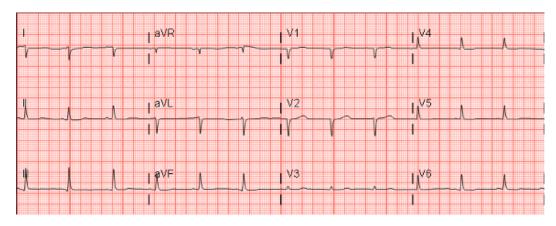
# **Cardiology:**

# Page 69, Right Axis Deviation

# ECG currently shows:



# ECG should show:

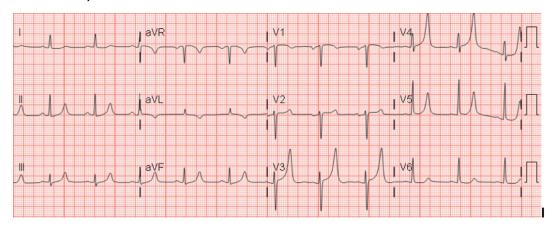


# **MedStudy**

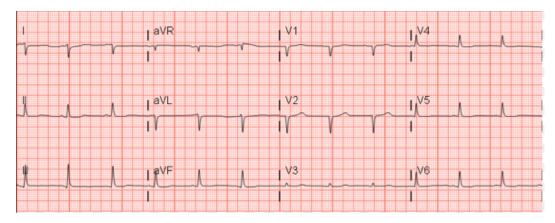
# **Cardiology:**

# Page 73, Wolff-Parkinson-White Pattern (Preexcitation)

# ECG currently shows:



# ECG should show:





# Dermatology:

# Page 7, Acne Vulgaris

Text currently reads:	Text should read:
<ul> <li>Affects 85% of adolescents</li> </ul>	<ul> <li>Affects 85% of adolescents</li> </ul>
<ul> <li>12% of women continue to get lesions</li> </ul>	<ul> <li>12% of women continue to get lesions</li> </ul>
through their 40s	through their 40s
<ul> <li>Predisposing factor is</li> </ul>	<ul> <li>Predisposing factor is</li> </ul>
hyperresponsiveness to androgens	hyperresponsiveness to androgens
(e.g., polycystic ovary syndrome)	(e.g., polycystic ovary syndrome)
Main types:	Main types:
<ul> <li>Comedonal (noninflammatory)</li> </ul>	<ul> <li>Comedonal (noninflammatory)</li> </ul>
<ul> <li>Occlusion of follicles</li> </ul>	<ul> <li>Occlusion of follicles</li> </ul>
<ul> <li>Inflammatory (papulopustular)</li> </ul>	<ul> <li>Inflammatory (papulopustular)</li> </ul>
<ul> <li>Directed against</li> </ul>	<ul> <li>Directed against</li> </ul>
Propionibacterium acnes, excess	Propionibacterium acnes, excess
sebum around hair follicle,	sebum around hair follicle,
follicular plugging	follicular plugging
<ul> <li>Severe nodulocystic</li> </ul>	<ul> <li>Severe nodulocystic</li> </ul>
(know isotretinoin)	(know isotretinoin)

# **Dermatology:**

# Page 13, Erythema Multiforme (EM)



# **Endocrinology:**

# Page 10, Cushing's — Diagnostic Workup

Text currently reads:	Text should read:
<ul> <li>Screen → Confirm → Localize</li> </ul>	<ul> <li>Screen → Confirm → Localize</li> </ul>
<ul> <li>Screen</li> </ul>	Screen
<ol> <li>24-hour urine free cortisol;</li> <li>Pitfall: Depression, alcoholism, false+</li> </ol>	<ol> <li>24-hour urine free cortisol;</li> <li>Pitfall: Depression, alcoholism, false+</li> </ol>
<ol> <li>1-mg overnight dexamethasone suppression test; Pitfall: Estrogen increased CBG false+</li> </ol>	<ol> <li>1-mg overnight dexamethasone suppression test; Pitfall: Estrogen increases CBG, false+</li> </ol>
<ol><li>Late-night salivary cortisol;</li><li>Pitfall: Shift workers??</li></ol>	<ol><li>Late-night salivary cortisol;</li><li>Pitfall: Shift workers??</li></ol>
<ul> <li>Confirm abnormal test</li> </ul>	<ul> <li>Confirm abnormal test</li> </ul>

# **Endocrinology:**

# Page 18, Fibrates

Text currently reads:	Text should read:
<ul> <li>Decrease TG and raise HDL (small effect on LDL)</li> <li>Gemfibrozil is the only fibrate with demonstrated CV benefit (Helsinki heart, VA-HIT)</li> </ul>	<ul> <li>Decrease TG and raise HDL (small effect on LDL)</li> <li>Gemfibrozil is the only fibrate with demonstrated CV benefit (Helsinki heart, VA-HIT)</li> </ul>
<ul> <li>Was vs. placebo</li> <li>Fenofibrate, while more effective for reducing TG and less statin interaction, did not show benefit in RCTs (ACCORD) for 2° prevention</li> <li>Myopathy risk alone and especially when gemfibrozil + statins</li> </ul>	<ul> <li>Gemfibrozil vs. placebo</li> <li>Fenofibrate, while more effective for reducing TG and less statin interaction, did not show benefit in RCTs (ACCORD) for 2° prevention</li> <li>Myopathy risk alone and especially when gemfibrozil + statins</li> </ul>

# **Endocrinology:**

# Page 19, Diagnosis of Type 2 DM

Text currently reads:	Text should read:
<ul> <li>Random glucose ≥ 200 mg/dL with</li> </ul>	<ul> <li>Random glucose ≥ 200 mg/dL with</li> </ul>
symptoms of DM (polyuria, polydipsia,	symptoms of DM (polyuria, polydipsia,
weight loss)	weight loss, polyphagia)
<ul> <li>Fasting plasma glucose ≥ 126 mg/dL × 2</li> </ul>	<ul> <li>Fasting plasma glucose ≥ 126 mg/dL × 2</li> </ul>
<ul> <li>Glucose ≥ 200 mg/dL on 2-hour OGTT</li> </ul>	<ul> <li>Glucose ≥ 200 mg/dL on 2-hour OGTT</li> </ul>
• HbA1c ≥ 6.5% × 2	• HbA1c ≥ 6.5% × 2



# Gastroenterology: Page 17, Diarrhea

Text currently reads:	Text should read:
<ul> <li>&gt; 200–250 g/day of stool, where</li> </ul>	<ul><li>&gt; 200–250 g/day of stool, where</li></ul>
normal is <b>150–180 g</b>	normal is 150–180 g/day
<ul> <li>Normal stool frequency is 3/day</li> </ul>	<ul> <li>Normal stool frequency is 3/day</li> </ul>
to 3/week	to 3/week
General divisions	General divisions
<ul><li>Acute: ≤ 2 weeks</li></ul>	<ul><li>Acute: ≤ 2 weeks</li></ul>
<ul> <li>Persistent: 2–4 weeks</li> </ul>	<ul> <li>Persistent: 2–4 weeks</li> </ul>
<ul><li>Chronic: &gt; 4 weeks</li></ul>	<ul><li>Chronic: &gt; 4 weeks</li></ul>

# **General Internal Medicine:**

# Page 5, Medications in Osteoporosis

Text currently reads:	Text should read:
<ul> <li>Glucocorticoids</li> </ul>	<ul> <li>Glucocorticoids</li> </ul>
<ul> <li>Antiseizure medications (phenobarbital,</li> </ul>	<ul> <li>Antiseizure medications (phenobarbital,</li> </ul>
phenytoin, carbamazepine)	phenytoin, carbamazepine)
<ul> <li>Drugs associated with hypogonadism</li> </ul>	<ul> <li>Drugs associated with hypogonadism</li> </ul>
(depo medroxyprogesterone, GnRHs,	(depot medroxyprogesterone, GnRHs,
aromatase inhibitors, methotrexate,	aromatase inhibitors, methotrexate,
chronic opioids)	chronic opioids)
<ul> <li>Thyroid over-replacement</li> </ul>	<ul> <li>Thyroid overreplacement</li> </ul>
<ul> <li>Cyclosporine</li> </ul>	<ul> <li>Cyclosporine</li> </ul>
Lithium	Lithium
	• PPI

# **General Internal Medicine:**

## Page 9, Testicular Abnormalities

Text currently reads:	Text should read:
<ul><li>Painful mass: emergency!</li></ul>	<ul><li>Painful mass: emergency!</li></ul>
<ul> <li>Torsion (testicular or testicular appendage)</li> </ul>	<ul> <li>Torsion (testicular or testicular appendage)</li> </ul>
<ul> <li>Epididymitis/Epididymoorchitis</li> </ul>	<ul> <li>Epididymitis/Epididymoorchitis</li> </ul>
<ul> <li>Hematocele</li> </ul>	<ul><li>Hematocele</li></ul>
Nonpainful:	<ul> <li>Nonpainful mass:</li> </ul>
<ul><li>Hydrocele</li></ul>	<ul><li>Hydrocele</li></ul>
<ul><li>Varicocele</li></ul>	<ul><li>Varicocele</li></ul>
– Hernia	– Hernia
<ul> <li>Testicular cancer</li> </ul>	<ul> <li>Testicular cancer</li> </ul>
<ul><li>Skin cysts</li></ul>	<ul><li>Skin cysts</li></ul>



#### **General Internal Medicine:**

# Page 13, Perioperative Medicine — Management > Heparin Bridging

Text currently reads:	Text should read:
<ul> <li>Diabetes agents</li> </ul>	<ul> <li>Diabetes agents</li> </ul>
<ul> <li>Oral hypoglycemics —</li> </ul>	<ul> <li>Oral hypoglycemics —</li> </ul>
stop 24–72 hours before surgery	stop 24–72 hours before surgery
depending upon half-life of drug	depending upon half-life of drug
and risk of hypoglycemia	and risk of hypoglycemia
<ul> <li>No short acting the morning</li> </ul>	<ul> <li>No short-acting insulin the morning</li> </ul>
of surgery	of surgery
<ul> <li>Basal insulin — continue same dose</li> </ul>	<ul> <li>Basal insulin — continue same dose</li> </ul>
or reduce to 2/3	or reduce to 2/3

#### **General Internal Medicine:**

# Page 14, Adult Immunization Schedule

Table currently reads:

Age	Schedule
Young adults	Completion of childhood immunizations
	(MMR, Tdap or Td, polio, Hep A and B)
11–26 and 26–45 (males too!)	HPV vaccine
Every year	Influenza
Every 10 years	Tdap once, then Td booster
> 60	Recombinant Zoster vaccine (2-dose series
	spaced 2–6 months apart)

#### Table should read:

Age	Schedule
Young adults	Completion of childhood immunizations
	(MMR, Tdap or Td, polio, Hep A and B)
11–26 and 26–45 (males too!)	HPV vaccine
Every year	Influenza
Every 10 years	Tdap once, then Td booster
> 50	Recombinant Zoster vaccine (2-dose series
	spaced 2–6 months apart)



# **General Internal Medicine: Page 17, Poisoning and Overdose Antidote**

Table currently reads:

Toxin	Antidote
Acetaminophen	<i>N</i> -acetylcysteine
Narcotics	Naloxone
Benzodiazepines	Flumazenil*
Nitrates	Methylene blue
Iron	Deferoxamine
Methanol, glycols	Fomepizole
Organophosphates	Atropine/Pralidoxime (2-PAM)
Cyanide	Nitrates, sodium thiosulfate

<sup>\*</sup>Flumazenil not recommended for someone who is a chronic user of benzodiazepines, as it can induce seizure

#### Table should read:

Toxin	Antidote
Acetaminophen	<i>N</i> -acetylcysteine
Narcotics	Naloxone
Benzodiazepines	Flumazenil*
Nitrites	Methylene blue
Iron	Deferoxamine
Methanol, glycols	Fomepizole
Organophosphates	Atropine/Pralidoxime (2-PAM)
Cyanide	Nitrites, sodium thiosulfate

<sup>\*</sup>Flumazenil not recommended for someone who is a chronic user of benzodiazepines, as it can induce seizure

#### **General Internal Medicine:**

#### Page 19, Acute Sinusitis — Therapy

Text currently reads:	Text should read:
<ul> <li>Decongestants/Saline irrigation</li> </ul>	<ul> <li>Decongestants/Saline irrigation</li> </ul>
<ul> <li>1<sup>st</sup> line — amoxicillin/clavulanate (2 g bid</li> </ul>	<ul> <li>1<sup>st</sup> line — amoxicillin/clavulanate (2 g bid</li> </ul>
in areas with $\geq$ 10% PRSP, $\geq$ 65 years of	in areas with $\geq$ 10% PRSP, $\geq$ 65 years of
age, hospitalization in last 5 days, severe,	age, hospitalization in last 5 days, severe,
antibiotic use in previous month, multiple	antibiotic use in previous month, multiple
comorbidities, immunocompromised)	comorbidities, immunocompromised)
<ul> <li>Alternative: doxycycline, levofloxacin,</li> </ul>	<ul> <li>Alternative: doxycycline, levofloxacin,</li> </ul>
moxifloxacin	moxifloxacin
<ul> <li>5- to 7-day duration of therapy</li> </ul>	<ul> <li>5- to 7-day duration of therapy</li> </ul>
<ul> <li>TMP/SMX, macrolides, no longer</li> </ul>	<ul> <li>TMP/SMX or macrolides no longer</li> </ul>
recommended	recommended



#### **General Internal Medicine:**

# Page 19, Drugs to Absolutely Avoid During Pregnancy

Text currently reads:	Text should read:
<ul> <li>Isotretinoin</li> </ul>	<ul> <li>Isotretinoin</li> </ul>
<ul> <li>ACE inhibitors, ARBs, and spironolactone</li> </ul>	ACE inhibitors, ARBs, and spironolactone
Benzodiazepines	<ul> <li>Benzodiazepines</li> </ul>
<ul> <li>Quinolones and tetracyclines</li> </ul>	<ul> <li>Quinolones and tetracyclines</li> </ul>
Tetracyclines	Tetracyclines
<ul> <li>Nitroprusside</li> </ul>	<ul> <li>Nitroprusside</li> </ul>
Warfarin	Warfarin

#### **General Internal Medicine:**

#### Page 20, Preconception Care

Text currently reads:	Text should read:
<ul> <li>All women of childbearing age — 50% of pregnancies are unplanned!</li> <li>Folate (400 mg normally, 4 g high risk)</li> <li>Immunizations (TDaP, flu, VZV, MMR)</li> <li>Environmental toxins, domestic violence</li> <li>Review all meds and preexisting conditions</li> </ul>	<ul> <li>All women of childbearing age — 50% of pregnancies are unplanned!</li> <li>Folate (400 mg normally, 4 g high risk)</li> <li>Immunizations (Tdap, flu, varicella, MMR)</li> <li>Environmental toxins, domestic violence</li> <li>Review all meds and preexisting conditions</li> </ul>

# General Internal Medicine: Page 21, SLE and Pregnancy

Text currently reads:	Text should read:
Normal fertility, but miscarriage rate	Normal fertility, but miscarriage rate
1.5–3× increased	1.5–3× increased
<ul> <li>Anti-Ro(SSA) or anti-La (SSB) antibodies</li> </ul>	<ul> <li>Anti-Ro(SSA) or anti-La (SSB) antibodies</li> </ul>
in the mother are associated with	in the mother are associated with
neonatal lupus and congenital	neonatal lupus and congenital
heart block	heart block
<ul> <li>If SLE active (especially with renal</li> </ul>	<ul> <li>If SLE active (especially with renal</li> </ul>
involvement) or	involvement) or if APLA+ or anti-
<ul> <li>if APLA+ or anti-dsDNA+, increased risk</li> </ul>	dsDNA+, increased risk of SLE flares
of SLE flares and fetal problems	and fetal problems
<ul> <li>Treat with steroids or</li> </ul>	<ul> <li>Treat with steroids or</li> </ul>
hydroxychloroquine	hydroxychloroquine
Avoid methotrexate	<ul> <li>Avoid methotrexate</li> </ul>



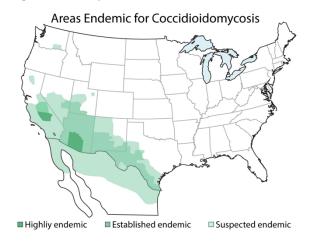
# Infectious Disease: Page 10, Babesiosis

Text currently reads:	Text should read:
Clinical manifestations	Clinical manifestations
<ul> <li>1- to 4-week incubation period</li> </ul>	<ul> <li>1- to 4-week incubation period</li> </ul>
<ul><li>Asymptomatic (~40%)</li></ul>	<ul><li>Asymptomatic (~40%)</li></ul>
<ul> <li>Mild disease (&lt; 4% parasitemia):</li> </ul>	<ul> <li>Mild disease (&lt; 4% parasitemia):</li> </ul>
fever, malaise, hemolysis,	fever, malaise, hemolysis,
thrombocytopenia, transaminase	thrombocytopenia, transaminase
elevations, jaundice	elevations, jaundice
<ul> <li>Severe disease (≥ 4% parasitemia):</li> </ul>	<ul><li>Severe disease (≥ 4% parasitemia):</li></ul>
asplenic, immunocompromised	asplenic, immunocompromised,
ARDS, DIC, AKI, altered mental status	ARDS, DIC, AKI, altered mental status

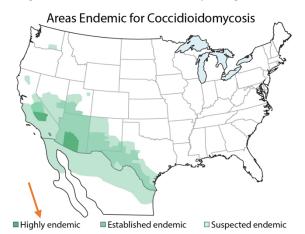
#### **Infectious Disease:**

#### Page 13, Coccidioidomycosis

Figure currently reads:



# Figure should read (corrected spelling error):



## Infectious Disease: Page 39, Zika Virus 2020

Text currently reads:	Text should read:
• <u>Transmission</u>	• <u>Transmission</u>
<ul> <li>Aedes mosquito-borne Flavivirus</li> </ul>	<ul> <li>Aedes mosquito-borne Flavivirus</li> </ul>
<ul> <li>~ Dengue, Ebola, yellow fever</li> </ul>	family
	<ul> <li>~ Dengue, Ebola, yellow fever</li> </ul>

# **MedStudy**

#### **Infectious Disease:**

#### Page 49, This Patient's Severity Scores

Figure currently reads:

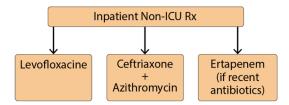
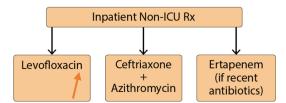


Figure should read (corrected spelling error):



#### Nephrology:

#### Page 8, Cryoglobulinemic GN

Text currently reads:	Text should read:
<u>Pearl</u>	Pearl
Purpuric rash	Purpuric rash
Raynaud Phenomenon	Pseudo-Raynaud Phenomenon
C4 is depressed, whereas C3 levels are low	C4 is depressed, whereas C3 levels are low
normal. Renal disease may improve with Rx of	normal. Renal disease may improve with Rx of
hepatitis C.	hepatitis C.

#### Nephrology:

#### Page 8, Nephritis with Normal Complements — ANCA Vasculitis and Anti-GBM

Text currently reads:	Text should read:
<ul> <li>Granulomatosis with polyangiitis</li> </ul>	<ul> <li>Granulomatosis with polyangiitis</li> </ul>
(formerly Wegener's)	(formerly Wegener's)
<ul><li>URTI (sinusitis, epistaxis)</li></ul>	<ul><li>URTI (sinusitis, epistaxis)</li></ul>
<ul> <li>LRTI (infiltrates, cavitary</li> </ul>	<ul> <li>LRTI (infiltrates, cavitary lesions,</li> </ul>
lesions, DAH)	DAH, consolidation)
<ul><li>C-ANCA → anti-PR3</li></ul>	<ul><li>C-ANCA → anti-PR3</li></ul>



#### Nephrology:

# Page 9, Focal Segmental Glomerulosclerosis — Clinical Clues and Features

Text currently reads:	Text should read:
<ul> <li>Most common primary renal disease in African Americans</li> <li>Patient usually hypertensive; Usually progresses to ESRD over 5–20 years</li> <li>Primary (idiopathic)</li> <li>Secondary etiologies         <ul> <li>Familial — Gene mutations (APOI1)</li> <li>Drugs — Intravenous heroin, pamidronate</li> <li>Infections — HIV (collapsing FSGS)**, parvovirus</li> </ul> </li> </ul>	<ul> <li>Most common primary renal disease in African Americans</li> <li>Patient usually hypertensive; Usually progresses to ESRD over 5–20 years</li> <li>Primary (idiopathic)</li> <li>Secondary etiologies         <ul> <li>Familial — Gene mutations (APOL1)</li> <li>Drugs — Intravenous heroin, pamidronate</li> <li>Infections — HIV (collapsing FSGS)**, parvovirus</li> </ul> </li> </ul>
<ul> <li>Adaptive — Reflux nephropathy, obesity</li> </ul>	<ul> <li>Adaptive — Reflux nephropathy, obesity</li> </ul>

#### Nephrology:

# Page 12, Calcium and the Risk of Symptomatic Kidney Stones in Males

# Table currently reads:

	Group 1	Group 2	Group 3	Group 4	Group 5
Calcium intake (mg)	< 605	605–722	723–848	849–1,049	> 1,050
Incidence/100,000 Person/yr	435	310	279	266	243
Multivariate RR (95% Cl <sup>-</sup> )	1.0	0.74 (0.57–0.97)	0.68 (0.52–0.90)	0.68 (0.51–0.90)	0.66 (0.49–0.90)

# Table should read (removed negative symbol; CI = confidence interval, not chloride):

	Group 1	Group 2	Group 3	Group 4	Group 5
Calcium intake (mg)	< 605	605–722	723–848	849–1,049	> 1,050
Incidence/100,000 Person/yr	435	310	279	266	243
Multivariate RR (95% CI) ◀	1.0	0.74 (0.57–0.97)	0.68 (0.52–0.90)	0.68 (0.51–0.90)	0.66 (0.49–0.90)



#### Nephrology:

#### Page 19, Approach to Hyponatremia

Text currently reads:	Text should read:
<ul> <li>Measure plasma osmolality → Need to know Posm</li> <li>When low, defines true hypoosmolal state or clinical hyponatremia</li> <li>If high → Plasma glucose; If normal → Protein and lipids</li> </ul>	<ul> <li>Measure plasma osmolality → Need to know Posm</li> <li>When low, defines true hypoosmolar state or clinical hyponatremia</li> <li>If high → Plasma glucose; If normal → Protein and lipids</li> </ul>

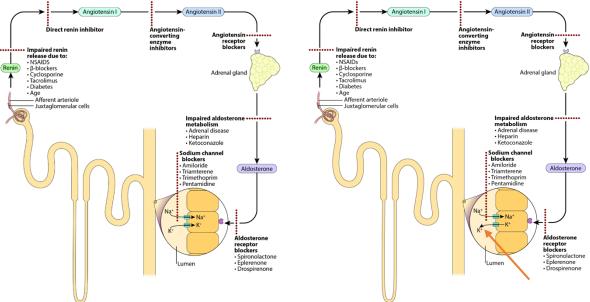
#### Nephrology:

#### Page 22, Hyperkalemia > Hyperkalemia — Inhibitors of the Renin-Angiotensin-Aldosterone System

Image currently shows:

Image should show potassium going out instead of going in (see arrow):

Angiotensin I



#### **Neurology:**

Page 9, Stroke > Ischemic Strokes > Ischemic Stroke — ASA 2018 Guidelines

Text currently reads:	Text should read:
<ul> <li>Systemic thrombolytics</li> </ul>	<ul> <li>Systemic thrombolytics</li> </ul>
- NIHSS > 4	<ul><li>NIHSS &gt; 4</li></ul>
<ul> <li>Acute ischemic stroke &lt; 4.5 hours</li> </ul>	<ul> <li>Acute ischemic stroke &lt; 4.5 hours</li> </ul>
<ul> <li>3–4.5 hours (exclude if &gt; 80 years of</li> </ul>	<ul> <li>3–4.5 hours (exclude if &gt; 80 years of</li> </ul>
age, DM, and prior ischemic stroke,	age, DM, and prior ischemic stroke,
anticoagulation, NIHSS > 25)	anticoagulation, NIHSS > 25)
<ul> <li>BP cannot be &gt; 185/110 mmHg</li> </ul>	<ul> <li>BP cannot be &gt; 185/110 mmHg</li> </ul>
<ul> <li>No tPA exclusion criteria</li> </ul>	<ul> <li>No absolute tPA exclusion criteria</li> </ul>



#### **Pulmonary Medicine:**

#### Page 8, AR 6

Text	curre	ntlv	reads:
101	curre	IILIY	ıcuus.

A 47-year-old man is evaluated for worsening of asthma symptoms characterized by frequent daytime wheezing and cough, as well as nocturnal awakening related to asthma 2–3 times per week.

He has been using his inhalers regularly without adequate relief. He has not had recent URI infection, sinusitis, postnasal drip, or new exposures. He is taking an inhaled corticosteroid and inhaled albuterol.

On exam, temp **98.6°F**, BP 135/80, HR 80, and RR 18. Lung exam reveals scattered bilateral wheezing. Spirometry shows an FEV1 of 70% of predicted. Following an inhaled bronchodilator, FEV1 improves to 90% of predicted.

#### Text should read:

A 47-year-old man is evaluated for worsening of asthma symptoms characterized by frequent daytime wheezing and cough, as well as nocturnal awakening related to asthma 2–3 times per week.

He has been using his inhalers regularly without adequate relief. He has not had recent URI infection, sinusitis, postnasal drip, or new exposures. He is taking an inhaled corticosteroid and inhaled albuterol.

On exam, temp 98.6°F (37°C), BP 135/80, HR 80, and RR 18. Lung exam reveals scattered bilateral wheezing. Spirometry shows an FEV1 of 70% of predicted. Following an inhaled bronchodilator, FEV1 improves to 90% of predicted.

#### **Pulmonary Medicine:**

#### Page 27, Exudative vs. Transudative

Text currently reads:	Text should read:
• pH	• pH
<ul> <li>pH &gt; 7.0 suggests complicated</li> </ul>	<ul> <li>pH &lt; 7.20 suggests complicated</li> </ul>
effusion and possible need for chest	effusion and possible need for chest
tube or seen in RA	tube or seen in RA

#### Rheumatology:

#### Page 4, Joint Swelling vs. Bony Enlargement

Text currently reads:	Text should read:
MCPs + PIPIs	MCPs + PIPIs
<ul><li>Spongy/Boggy/</li></ul>	<ul> <li>Spongy/Boggy/Painful</li> </ul>
Painful	<ul> <li>DIPs spared</li> </ul>
DIPs spared	<ul> <li>Wrist swelling</li> </ul>
Wrist swelling	= Inflammatory arthritis (like RA)
= Inflammatory arthritis (like RA)	



# Rheumatology: Page 13, Gout

Text currently reads:	Text should read:
Risks	<ul> <li>Risks</li> </ul>
<ul> <li>Trauma, surgery, starvation,</li> </ul>	<ul> <li>Trauma, surgery, starvation,</li> </ul>
dehydration	dehydration
<ul> <li>Chronic kidney disease</li> </ul>	<ul> <li>Chronic kidney disease</li> </ul>
<ul> <li>Diet: purine-rich meat, seafood, high-</li> </ul>	<ul> <li>Diet: purine-rich meat, seafood, high-</li> </ul>
fructose corn syrup/processed	fructose corn syrup/processed
sugars, ethanol, male sex	sugars, ethanol,
<ul> <li>Medications: diuretics, low-dose</li> </ul>	<ul><li>Male sex</li></ul>
aspiring, cyclosporine	<ul> <li>Medications: diuretics, low-dose</li> </ul>
	aspiring, cyclosporine

# Rheumatology: Page 17, AR 7

# Text currently reads: 22-year-old African American female with a 1-year h/o arthralgias, alopecia, fatigue with sun exposure, +ANA, +RNP. WBC 3.1. U/A noted

RBC casts and 3+ proteinuria.

Text should read:

22-year-old African American female with
a 1-year h/o inflammatory arthritis, alopecia,
fatigue with sun exposure, +ANA, +RNP. WBC 3.1.
U/A noted RBC casts and 3+ proteinuria.