Jordan University of Science and Technology Survey on cardio-protective use of aldosterone antagonists Physicians and pharmacists' questionnaire

This survey aims to evaluate physicians and pharmacists' current knowledge, beliefs and practice related to use of aldosterone antagonists in patients with cardiovascular morbidities. Your answer is anonymous and will only be seen by study members. Please make sure you answer all the questions without consulting any material

SECTION 1: ABOUT YOU

1. <i>What is your</i> □<30 year	<i>age?</i> □30-39yea	r ⊟40-50year	□50-60year	□ >60year
2. Gender?	□Female	□Male		
3. Profession? □Physician (consultant) □Physician (resident) □Physician (fellow) □Pharm.D □Pharmacist				hysician (fellow)
4. What is your medical specialty? □Cardiac surgery □Cardiology □Internal medicine □General Surgery □Pharmacy □Clinical pharmacy				
5. How long have you been practicing your profession?				

6.What is your hospital Of primary affiliation?

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SECTION 2: Awareness and Perceptions

7. Are you aware of studies in the literature regarding cardio-protective use of aldosterone antagonists in patients with post-myocardial infarction (MI) or heart failure (HF)? □Yes □No

8. In your opinion, is the use of aldosterone antagonists in post-MI patients with left ventricular dysfunction who also have HF or diabetes mellitus useful? □Strongly agree □Agree □Neither agree nor disagree

☐Strongly agree	□Agree	☐Neither agree no
□Disagree	□Strongly	disagree

9. In your opinion, is the use of aldosterone antagonist in patients with moderately severe to severe HF (NYHA class III &IV) and reduced left ventricular ejection fraction (LVEF) useful? □Strongly agree □Agree □Neither agree nor disagree

Disagree □Strongly disagree



10. In your opinion, is the use of aldosterone antagonists in HF or post-MI (patients of Q 8&9) useful when patients are *normotensive*?

☐Strongly agree	□Agree	□Neither agree nor disagree
□Disagree	☐Strongly c	lisagree

11. Are you aware of studies which showed that use of aldosterone antagonists improves cardiac remodeling/oxidative stress, ventricular dysfunction and mortality?
□Yes
□No
□Aware of studies related to antihypertensive effect of aldosterone antagonists only
□Other (please specify......)

12. Are you aware of studies in the literature regarding use of aldosterone antagonists to prevent or treat cardiac arrhythmia? □Yes □No

SECTION 3: PRACTICE

therapy for (Please cir DACEi/AR Aldoster	moderately cle any that B □ one antagon	severe to sever	re HF patie ⊡Statir ⊡Fure	ents, or f nes semide	or post-MI □Aspirin □Digoxir	as part of standard patients with HF n
14.Does yo ⊡Yes		nave a protocol No		aldoster not know		onists in patients?
15.In general, how often are aldosterone antagonists used as a routine care in your patients (regardless of the purpose, diuretic or non-diuretic indications)? □Always □Usually □Sometime□Seldom □Never						
16.When aldosterone antagonist is prescribed, what is the drug do you usually use? □Spironolactone □Eplerenone □I do not use it						
If you are not a physician or a clinical pharmacist, please skip to Q26						
 17. When do you consider using aldosterone antagonist (Circle any that apply)? In hypertensive patients with hypokalemia In hypertensive patients in which diuretics are not sufficient or intolerant For cardio-protection in moderate to severe HF patients with low LVEF For cardio-protection in post-MI patients with HF or diabetes In patients with hyper-aldosteronism I do not use it Others (specify) 						
18. Approximately, how many times do you consider using aldosterone antagonist per week as a diuretic to lower blood pressure or optimize K+ level?						
	□1-2 times	□3-5 tin	nes	□5-10 ti	mes	□>10 times
19. Approximately, how many times do you consider using aldosterone antagonist per week as a <i>cardio-protective drug but not-diuretic</i> in patients with HF or post MI $\Box 0$ $\Box 1-2$ times $\Box 3-5$ times $\Box 5-10$ times $\Box >10$ times						

20."Spironolactone is a that is less observed in □Strongly agree □Disagree	n eplerenone"? □Agree □Neith	sed risk of gynocomastia and I er agree nor disagree	nyperkalemia
ventricular dysfunction Directly following MI A month after MI When ever use of st When ever blood pro- I do not use it	h, when do you genera l tandard therapy is insu essure is not controlled	ifficient to control ventricular dy	ysfunction
22. When you use aldo indication (diuretic or o □Yes		,	rdless of the
		rme inhibitors (ACEi) or angiote e aldosterone antagonists? □I do not use aldosterone a	
and the patient is takin Replace it with ACE Replace it with diure I do not consider pa I do not use it 25. When you use aldo level?	ng ACEi or ARB, how w i/ARBs etic if the patient is taki tient drug therapy osterone antagonist, d □Creatinine only	□Add it to to ACEi/ARB ng diuretic o you consider monitoring K+	

SECTION 4: GUIDLINES

26. Aldosterone antagonists should not be used in patients with significant renal dysfunction (e.g creatinine >2.5 in men or >2.0 mg/dl in women) or hyperkalemia (K+ level >5.0 mEq/L)?

□Agree □Neither agree nor disagree □Disagree

27. Risk of hyperkalemia increases with concomitant use of aldosterone antagonists with ACE inhibitors/ARB or Non Steroidal Anti Inflammatory Drugs (NSAID)? □Agree □Neither agree nor disagree □Disagree

28. The recommended cardio-protective *daily* dose of spironolactone in congestive HF or post MI is 25-50 mg, but the dose used in hypertension is usually 50-100 mg?
□Agree □Neither agree nor disagree □Disagree

29. The American College of Cardiology and the American Heart Association (ACC/AHA) consider use of spironolactone in moderately severe to severe HF patients with reduced LVEF (EF≤35%) as? □Class Ia "useful and recommended" □Class IIa "mostly useful" □Class IIb "not sure if useful" □ClassIII "not useful and not recommended

30. The AHA/ACC recommends adding eplerenone *directly* in post-MI patients with reduced LVEF (EF≤40%) who also have HF or diabetes mellitus?
□Agree □Neither agree nor disagree □Disagree

Would you please make sure that you answered all the questions! THANK YOU

