

10 Tweets • 2023-01-28 • **У** See on Twitter rattibha.com ♥

#TenTweetNephJC #

This week CARDINAL - the largest ever RCT in patients with Alport Syndrome

#TenTweetNephJC

- 1. Intro
- 2. So I didn't join what was the study?
- 3. I tweet methods
- 4. I tweet results
- 5. A figure paints a 1000 words
- 6. Give me something clever to repeat
- 7. Was there consensus in the chats?
- 8. Quote of the fortnight!
- 9. I want more info
- 10. Final thoughts



What did I miss?

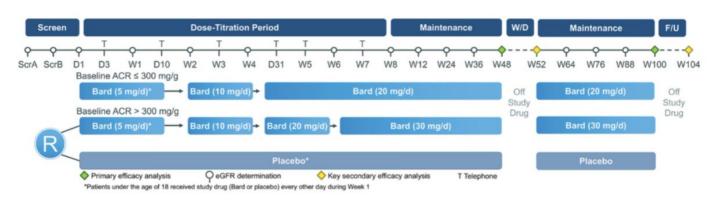
In 2013 BEACON RCT of the Nrf2 activator Bardoxolone looked to slow CKD in patients with diabetic nephropathy. Unfortunately it CCF, leading to early termination.

But could it do better in a younger Alport cohort at less CV risk?

```
https://pubmed.ncbi.nlm.nih.gov/36411058
```

1 tweet methods

- ✓ Histologic or genetic diagnosis of Alport Syndrome
- ✓ Age 12–70 yrs, eGFR of 30–90, no cardiac disease
- ✓ 1:1 randomization to bardoxolone or placebo. Two washouts periods week 48-52, and after week 100
- ✓ Primary outcomes: eGFR at week 48 & week 100



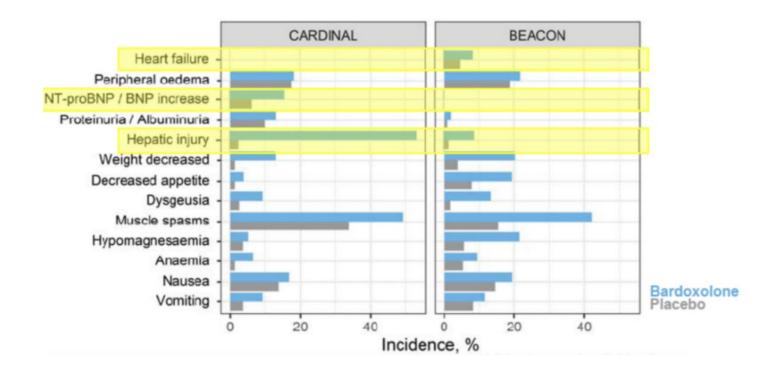
Abbreviations: Bard=bardoxolone methyl; eGFR=estimated glomerular filtration rate; F/U=follow-up; R=randomization; W/D=withdrawal

- 1 tweet results
- 155 randomized!
- Mean: age 40, eGFR 63, uACR 142mg/g
- 'positive' primary outcome: week 100 'on treatment' bardoxolone arm = higher eGFR by 7.4 (P<0.001)</p>
- But after drug washout effect disappeared,
 indicating no impact on actual disease progression

5/10

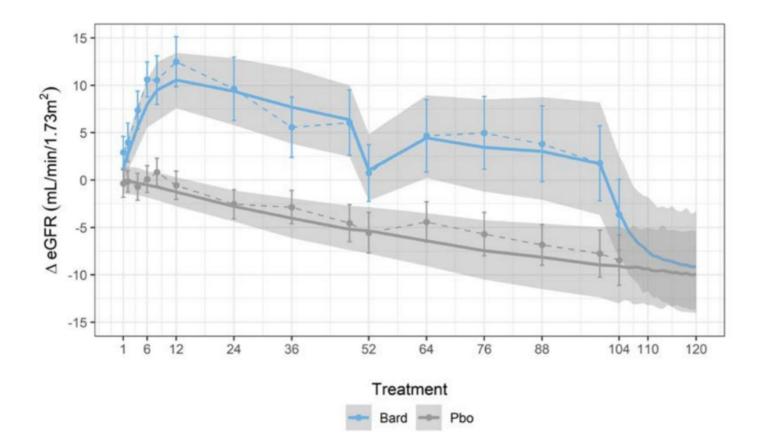
A figure paints 1000 words

Bardoxolone side-effects in CARDINAL and BEACON, from the FDA



6/10
Give me something clever to say

"Bloods drawn at >14 days were accepted in washout period, but the FDA thought washout should have been >8 weeks. Look how eGFR gains modelled by FDA were fully lost when drug is stopped; it's just a temporary pharmacodynamic effect."



Chat consensus?

- Use of bardoxolone for Alport never had any supportive preclinical data
- 2 FDA made right decision rejecting approval application
- 3 Future generally looker brighter in Alport; for now focus on early diagnosis, early ACEi, finding an RCT of better drug

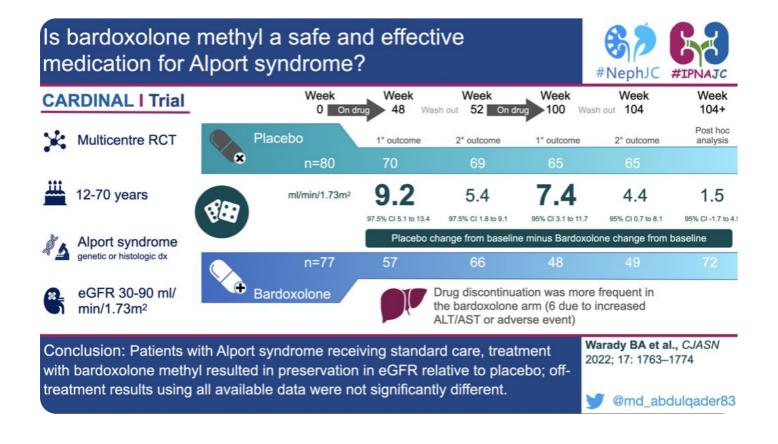
8/10

Quote(s) of the fortnight!

I want more info

- ✓ Follow @rheault_m & @AlportSyndFndn
- NephJC summary from @priti899 and @jamiekwilows
- ✓ VA by @md_abdulqader83

http://www.nephjc.com/news/bardoxolone



Final thoughts

- Further bardoxolone trials in ADPKD & diabetes awaited look critically at washout period & side-effect profile
- Up next 7/8 Feb is chlorthalidone actually better than HCTZ? Bring your biases!

Tweetorial by @jamiekwillows

https://www.nejm.org/doi/full/10.1056/NE JMoa2212270

These pages were created and arranged by Rattibha services (https://www.rattibha.com)

The contents of these pages, including all images, videos, attachments and external links published (collectively referred to as "this publication"), were created at the request of a user (s) from

Twitter. Rattibha provides an automated service, without human intervention, to copy the contents of tweets from Twitter and publish them in an article style, and create PDF pages that can be printed and shared, at the request of Twitter user (s). Please note that the views and all contents in this publication are those of the author and do not necessarily represent the views of Rattibha. Rattibha assumes no responsibility for any damage or breaches of any law resulting from the contents of this publication.