Our Treatment Stop Review tool helps maintain

E-Module Logic

TSR Episode creation: automated logic in webbased trial management system.



acherence in a

large long-term trial.

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Why it matters

Good adherence to study treatment in clinical trials is essential to ensure the reliable detection of the effects of an intervention. However, maintaining adherence can be challenging in large-scale trials with long follow up durations.

Our approach

A scheduled job run every 24-hours identified participants who stopped their study treatment on a recent follow-up form. Based on the reason for stopping, "TSR episodes" were routed to clinicians and *i.e. no previous safety concern logged to indicate treatment no longer permitted.

Key insights

REVEAL maintained very good adherence to study treatment: 90% at the trial midpoint, 85% at the final visit.

• There were 5200 TSR episodes (4863 unique participants, 16% of those

The HPS3/TIMI-55: REVEAL Randomized EValuation of the Effects of Anacetrapib through Lipid-modification (REVEAL) trial, randomized 30,449 participants at 431 sites in Europe, North America and China and followed them up for 4.1 years^{1,2}. To facilitate good adherence, an electronic reporting and review module, Treatment Stop Review (TSR), was integrated into a bespoke webbased trial management system.

administrators from the central or regional coordinating centres for further review.

Working together, they confirmed the reason for stopping and ensured that emergent safety concerns were appropriately managed. The module was also used to monitor those who restarted treatment and the outcome of re-challenges



randomized).

- Final status of reviewed episodes:
 - Closed: restarted = 534 378 participants on study drug at end of trial
 - Closed: restart not permitted at that time (for safety reasons) = 133
 6 participants on study drug at end of trial
 - Closed: restart permitted = 4533
 543 participants on study drug at end of trial
- Overall, 19% of those reviewed in the TSR module (927 participants) were on study treatment at the end of the trial.
- TSR ensured participant safety where clinical factors required treatment to be stopped.

Outcome of TSR episode review by region (closed episodes)

	Region (total randomized)						
	UK (9391)	Other Europe† (7257)	North America	China	Total		
	(8381)	(7357)	(6082)	(8629)	(30449)		
Restarted	147	93	124	170	534		

Since last visit study treatment has been restarted

Change status to "Closed: restarted" N=534 Create note to site indicating treatment not permitted

Change status to "Closed: restart not permitted" N=133 Create note to site indicating restart is permitted, but unlikely based on the personal/medical circumstances Change status to "Closed: restart permitted" N=4533

Treatment not permitted	43	26	45	19	133		
Restart permitted	1573	1122	1017	821	4533		
Total episodes reviewed	1763	1241	1186	1010	5200		
+ Italy, Germany, Scandinavia							

References

1. REVEAL Collaborative Group . Effects of anacetrapib in patients with atherosclerotic vascular disease. N Engl J Med 2017;377:1217–1227.

2. REVEAL Collaborative Group . Randomized Evaluation of the Effects of Anacetrapib through Lipid-modification (REVEAL) - a large-scale, randomized, placebo-controlled trial of the clinical effects of anacetrapib among people with established vascular disease: trial design, recruitment, and baseline characteristics. Am Heart J 2017;187:182–190.



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