

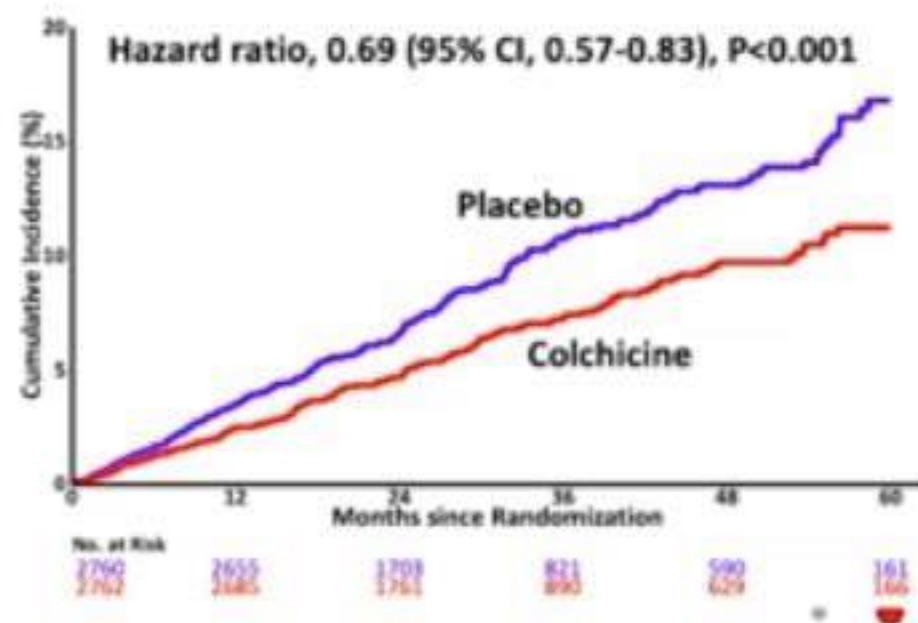


# LoDoCo2



## LoDoCo2: Colchicine, an old drug for a new CV indication (Chronic Coronary Syndromes)

- Double-blind, placebo-controlled RCT (5522 randomized pts)
- Setting: patients with stable CAD
- Intervention: colchicine 0.5mg/day (low dose, no loading) with a 30 day run-in of colchicine for tolerance (91% tolerated colchicine).
- Primary endpoint: CV death, MI, ischemic stroke, ischemia-driven coronary revascularization.



## Background

CANTOS proved that the specific anti-inflammatory effect of canakinumab reduced the risk of cardiovascular events in high risk patients with coronary disease.<sup>1</sup>

Colchicine has broad anti-inflammatory effects and is widely available

COLCOT proved that colchicine reduced the risk of cardiovascular events in patients following a recent myocardial infarction.<sup>2</sup>

Evidence to support the routine use of colchicine for secondary prevention in patients with chronic coronary disease is limited.

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1 - PM Ridker et al. 2017 NEJM  
2 - JC Tardif et al. 2019 NEJM

LODOCO



Hot Line LoDoCo2

Colchicine in Patients with Chronic Coronary Disease





The logo for the LODOCO 2 trial, featuring the word "LODOCO" in green and black, a purple flower icon, and the number "2" in black.

**Objective:** To determine whether colchicine 0.5mg once daily prevents cardiovascular events in patients with chronic coronary disease.

**Design:** Investigator-initiated, double-blind, placebo-controlled, event-driven trial.

**Enrolment:** Began in Australia (GenesisCare) in August 2014. Expanded to The Netherlands, Dutch Network for Cardiovascular Research (WCN) in October 2016. Last enrolment: November 4, 2017.

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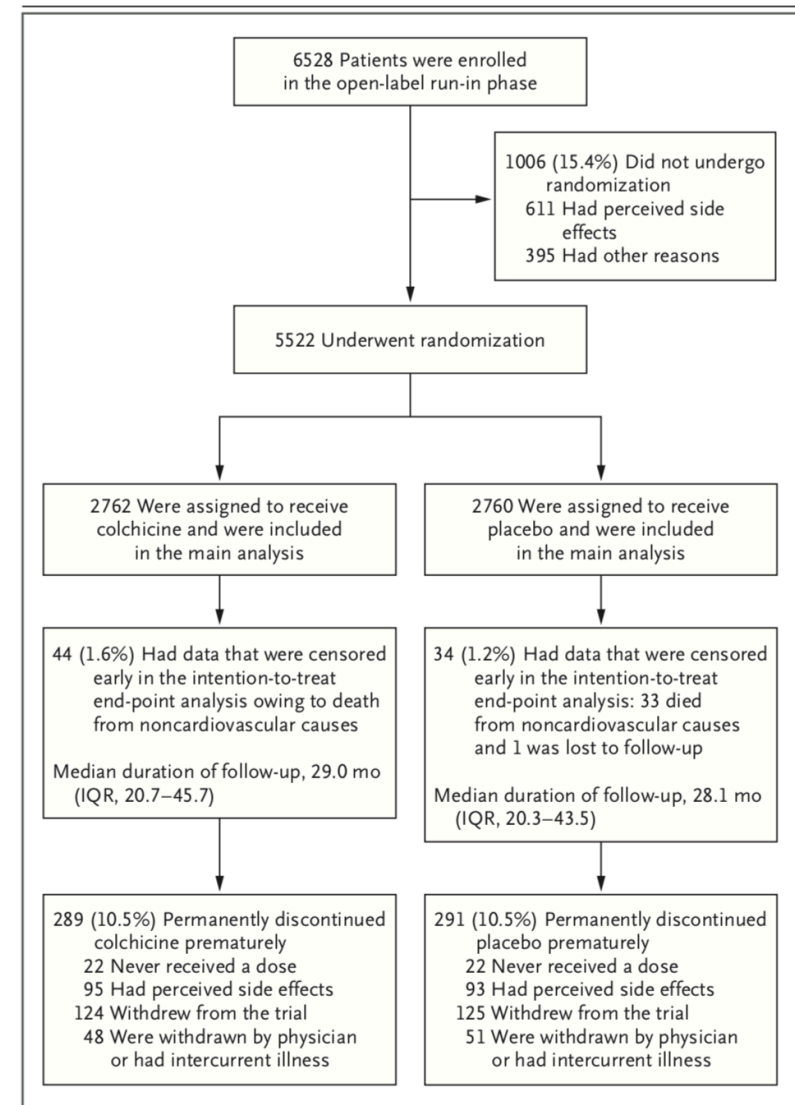
LODOCO 2

Mark Nidorf

Australia

**Table 1. Characteristics of the Trial Patients at Baseline.\***

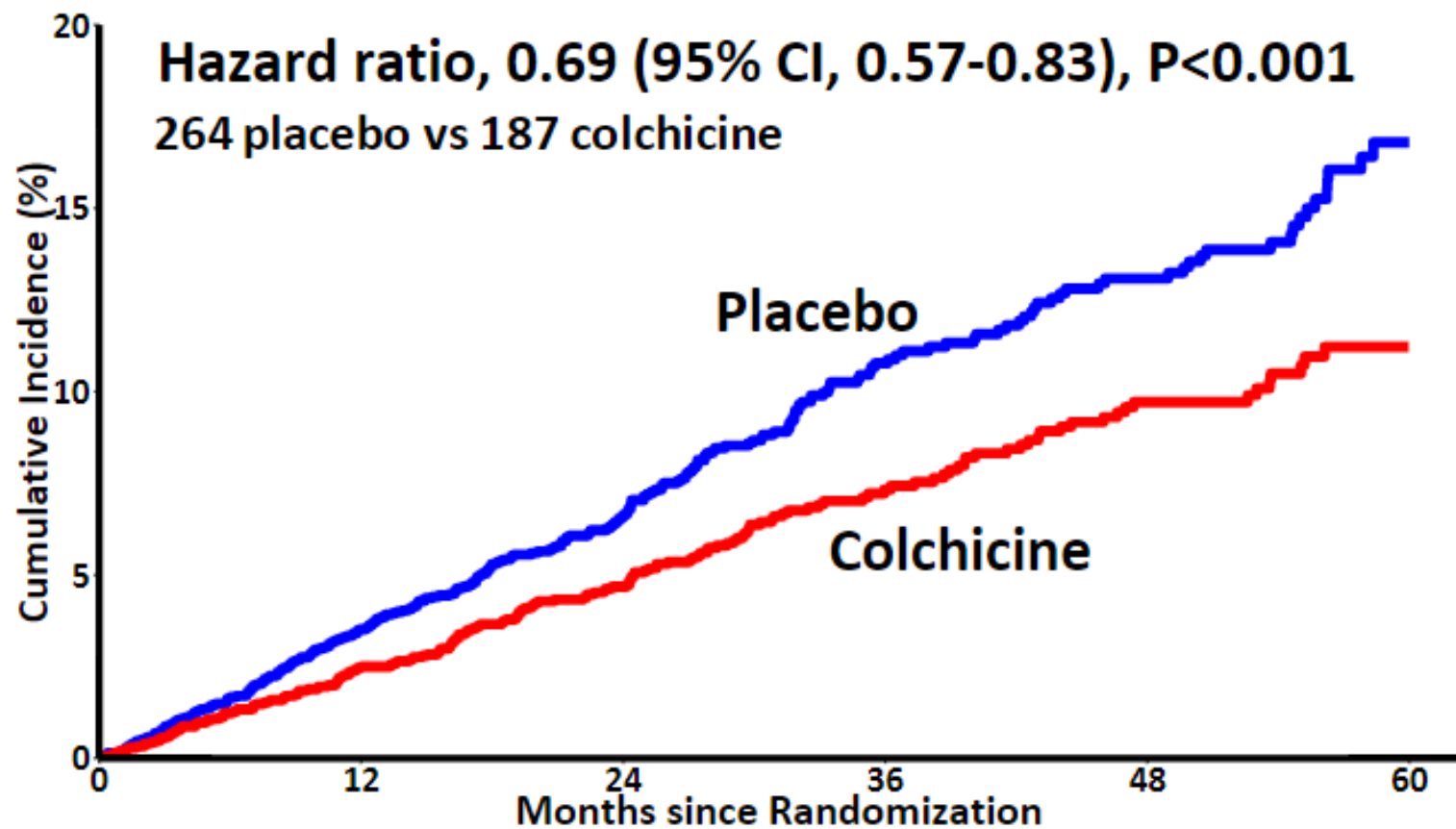
Characteristic	Colchicine (N = 2762)	Placebo (N = 2760)
Age — yr	65.8±8.4	65.9±8.7
Female sex — no. (%)	457 (16.5)	389 (14.1)
Country — no. (%)		
Australia	951 (34.4)	953 (34.5)
The Netherlands	1811 (65.6)	1807 (65.5)
Current smoker — no. (%)†	318 (11.5)	330 (12.0)
Hypertension — no. (%)	1421 (51.4)	1387 (50.3)
Diabetes — no. (%)		
Patients receiving any treatment for diabetes	492 (17.8)	515 (18.7)
Patients dependent on insulin	140 (5.1)	147 (5.3)
Renal function — no. (%)‡		
Stage 1 or 2	2614 (94.6)	2602 (94.3)
Stage 3a	148 (5.4)	158 (5.7)
Prior acute coronary syndrome — no. (%)	2323 (84.1)	2335 (84.6)
Time since last acute coronary syndrome — no. (%)		
≤24 mo	753 (27.3)	726 (26.3)
>24 mo	1570 (56.8)	1609 (58.3)
Prior coronary revascularization — no. (%)	2301 (83.3)	2320 (84.1)
Coronary-artery bypass grafting	319 (11.5)	391 (14.2)
Percutaneous coronary intervention	2100 (76.0)	2077 (75.3)
History of atrial fibrillation — no. (%)	332 (12.0)	317 (11.5)
History of gout — no. (%)	220 (8.0)	226 (8.2)
Medication use — no. (%)		
Single antiplatelet therapy	1849 (66.9)	1852 (67.1)
Dual antiplatelet therapy	638 (23.1)	642 (23.3)
Anticoagulant	342 (12.4)	330 (12.0)
No antiplatelet agent or anticoagulant	4 (0.1)	11 (0.4)
Statin	2594 (93.9)	2594 (94.0)
Ezetimibe	551 (19.9)	522 (18.9)
Any lipid-lowering agent	2670 (96.7)	2665 (96.6)
Renin-angiotensin inhibitor	1995 (72.2)	1965 (71.2)
Beta-blocker	1692 (61.3)	1735 (62.9)
Calcium-channel blocker	633 (22.9)	611 (22.1)



**Figure 1. Enrollment, Randomization, and Follow-up.**

# Primary end point

Cardiovascular death, Myocardial infarction, Ischemic stroke or Ischemia-driven coronary revascularization



No. at Risk

2760

2762

2655

2685

1703

1761

821

890

590

629

161

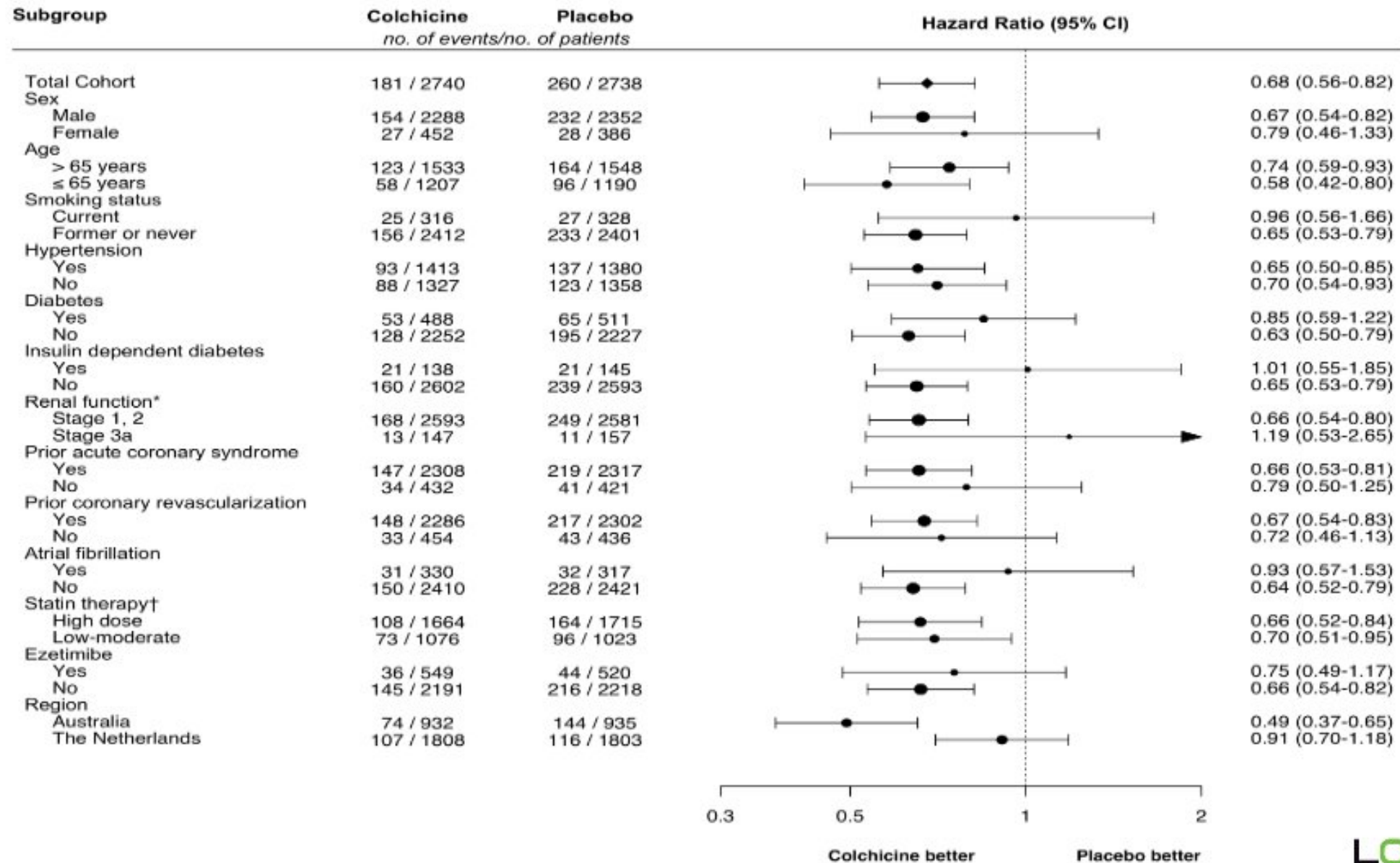
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# Ranked secondary end points

	Colchicine (N = 2762)	Placebo (N = 2760)	Hazard Ratio (95% CI)	P Value
1. Cardiovascular death, Myocardial infarction, or Ischemic stroke	115(4.2)	157(5.7)	0.72(0.57-0.92)	<b>0.007</b>
2. Myocardial infarction or Ischemia-driven coronary revascularization	155(5.6)	224(8.1)	0.67(0.55-0.83)	<b>&lt;0.001</b>
3. Cardiovascular death or Myocardial infarction	100(3.6)	138(5.0)	0.71(0.55-0.92)	<b>0.010</b>
4. Ischemia-driven coronary revascularization	135(4.9)	177(6.4)	0.75(0.60-0.94)	<b>0.012</b>
5. Myocardial infarction	83(3.0)	116(4.2)	0.70(0.53-0.93)	<b>0.014</b>
6. Ischemic stroke	16(0.6)	24(0.9)	0.66(0.35-1.25)	0.198
7. Death from any cause	73(2.6)	60(2.2)	1.21(0.86-1.71)	
8. Cardiovascular death	20(0.7)	25(0.9)	0.80(0.44-1.44)	



# Prespecified sub-groups





# Serous adverse events

	<b>Colchicine</b> (N = 2762)	<b>Placebo</b> (N = 2760)
Non-cardiovascular death	53 (1.9)	35 (1.3)
Diagnosis of new cancer	120 (4.3)	122 (4.4)
Hospitalization for infection	137 (5.0)	144 (5.2)
Hospitalization for pneumonia	46 (1.7)	55 (2.0)
Hospitalization for gastro-intestinal reason	53 (1.9)	50 (1.8)
Neutropenia	3 (0.1)	3 (0.1)
Myotoxicity	4 (0.1)	3 (0.1)

## Summary

### In patients with chronic coronary disease, low-dose colchicine

*Reduced the risk of;*

- The primary composite end point  
Cardiovascular death, myocardial infarction, ischemic stroke or ischemia-driven coronary revascularization.
- Key secondary composite end points  
Cardiovascular death, myocardial infarction or ischemic stroke.
- Individual secondary end points  
Myocardial infarction & Ischemia-driven coronary revascularization.  
*... with broadly consistent effects across a range of clinical subgroups*

*Was well tolerated and appeared safe*

The incidence of premature discontinuation & serious adverse events were both low & equivalent to placebo.

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