

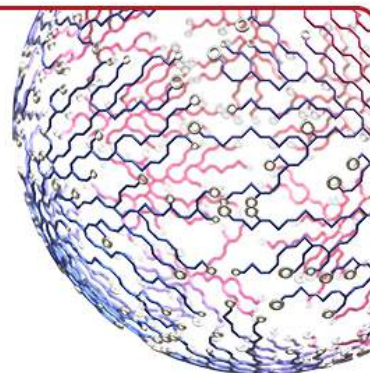
# AFFIRMO

## AF integrated approach in Frail, multimorbid and polyMedicated Older people

**Presenter:** Gregory YH Lip (University of Liverpool - Liverpool, UK)



#ESCCongress



### Conclusion

A mobile-health integrated care approach based on the ABC pathway (iABC) plus Comprehensive Geriatric Assessment (CGA) did not reduce unplanned hospitalisations vs usual care.



### Implications

The iABC system was designed to improve guideline adherence but there was high baseline guideline adherence and low event rates, with low use of the mobile app and limited efficacy of CGA in this well-preserved population.

## OBJECTIVE

To evaluate the efficacy of a mobile-health intervention adapting the ABC pathway and combining CGA in older patients with AF and comorbidities.

## METHODS

- Aged  $\geq 65$  years
- Any AF type
- At least 1 comorbidity

**1,260**  
patients  
Cluster randomised trial  
6 European centres



iABC + CGA



App



Clinician  
dashboard

Usual care

## RESULTS

- Guideline adherence was very high at baseline in both arms

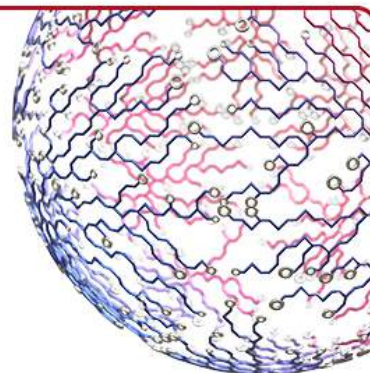
|                                                                           | iABC  | Usual care |                                       |
|---------------------------------------------------------------------------|-------|------------|---------------------------------------|
| <b>Primary endpoint</b><br>All-cause unplanned hospitalisations at 1 year | 17.1% | 18.2%      | OR 0.95<br>95% CI 0.61–1.49<br>p=0.84 |

# NEXAF

## Long-term exercise in patients with non-permanent AF



#ESCCongress



**Presenter:** Bjarne Nes (Norwegian University of Science and Technology - Trondheim, Norway)



### Conclusion

A 12-month exercise programme reduced the total AF burden and improved cardiopulmonary fitness but did not increase AF-specific QoL vs usual care.



### Implications

This hybrid model was feasible and may enable wider use of exercise-enabled rehabilitation.

## OBJECTIVE

To evaluate the effect of a long-term supervised and eHealth-based exercise intervention on AF burden and AF-specific QoL.

## METHODS

- Non-permanent AF
- Physical activity level less than recommended

**295**  
patients  
randomised 1:1  
3 centres in Norway

**Exercise**  
Supervised sessions  
for 4 weeks

**Home-based eHealth**



**Usual care**  
No structured or supervised exercise

## RESULTS

**Exercise vs  
usual care  
at 12 months**

### Primary endpoints

Time in AF

**3.9%**  
with exercise

**7.1%**  
with usual care

↓  
p=0.016

Cardiopulmonary  
fitness ↑

Overall AFEQT score

**+5.6**  
with exercise

**+4.4**  
with usual care

↔  
p=0.43

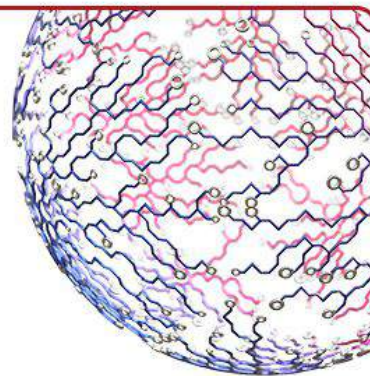
Hospitalisations ↓

# PVI-SHAM-AF

## Pulmonary vein isolation vs sham in AF



#ESCCongress



**Presenter:** Rolf Wachter (University of Leipzig Medical Centre - Leipzig, Germany)



### Conclusion

Catheter ablation did not improve AF-related quality of life compared with a sham intervention, despite reducing AF recurrence.



### Implications

These data should be discussed with patients when catheter ablation is being considered.

## OBJECTIVE

To investigate improvements in AF-related quality of life with catheter ablation compared with a sham procedure.

## METHODS

- Symptomatic paroxysmal or persistent AF

**262**  
patients  
randomised 2:1  
9 sites in Germany  
and Poland



**Catheter  
ablation**

**Sham  
procedure**

### Primary endpoint

Change in  
AF Effect on the Quality of  
Life (AFEQT) questionnaire  
from baseline to 6 months



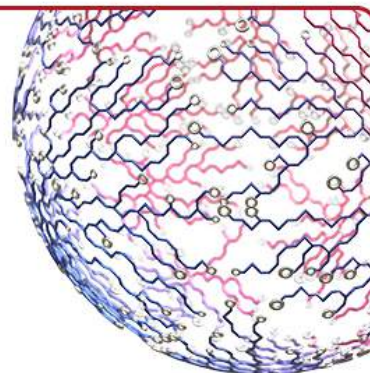
## RESULTS

|                                              | Catheter ablation | Sham procedure |        |
|----------------------------------------------|-------------------|----------------|--------|
| AFEQT summary score at baseline and 6 months | 61.3 → 81.1       | 59.2 → 74.9    | p=0.36 |
| Freedom from AF at 6 months                  | 73%               | 52%            |        |

# Blood pressure-lowering treatment across the spectrum of CV risk



#ESCCongress



**Presenter:** Kazem Rahimi (University of Oxford - Oxford, UK)



## Conclusion

The relative benefits of pharmacological BP lowering were seen regardless of CV risk. Absolute benefits were larger at higher baseline risk.



## Implications

Risk-guided management could prevent CV events missed under conventional strategies while avoiding unnecessary treatment in those least likely to benefit.

## OBJECTIVE

To examine whether the benefits of BP lowering extend across the spectrum of CV risk.

## METHODS

- Meta-analysis
- Trials of antihypertensive treatment vs comparator

  
**51**  
trials identified

→ **357,440 participants**  
classified into  
10 categories  
(from <4% to >27%)  
by predicted 5-year CV  
risk at randomisation

→ **Primary outcome**  
**Major CVD**  
(nonfatal or fatal stroke,  
nonfatal or fatal IHD, or  
HF resulting in death or  
hospitalisation)  
  
Median follow-up:  
4.2 years

## RESULTS

- Major CVD: HR 0.90 (95% CI 0.88–0.92) per 5 mmHg reduction in SBP

- Homogeneous across predicted-risk categories

p for interaction  
>0.99



- Absolute benefits increased progressively with baseline predicted risk

Lowest risk decile (<4%): absolute risk reduction 0.4 percentage points

Highest risk decile (>27%): absolute risk reduction 2.6 percentage points

p for trend  
<0.001

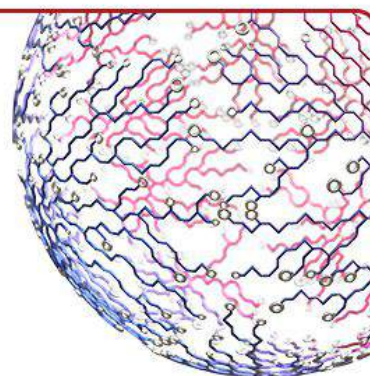


# CRHCP

## Long-term blood pressure control and dementia risk



#ESCCongress



**Presenter:** Shanshan Zhong (The First Affiliated Hospital of China Medical University - Shenyang, China)



### Conclusion

A community-based intervention delivered by non-physician HCPs resulted in substantial reductions in blood pressure and also in dementia.



### Implications

Wider use of this scalable intervention globally may help to reduce the increasing burden of dementia.

## OBJECTIVE

To assess whether intensive BP lowering reduces the incidence of dementia.

## METHODS



326 villages in rural China randomised



**33,995** adults

- Aged  $\geq 40$  years
- Untreated  $\geq 140/90$  mmHg ( $\geq 130/80$  mmHg if treated or high risk)

### Community intervention



Trained non-physician HCPs adjusted BP medication

Active trial: 4 y      Observation: 3 y

### Usual care

## RESULTS

| At the end of 7-y period | Community intervention | Usual care |             |
|--------------------------|------------------------|------------|-------------|
| SBP reduction            | 17.6 mmHg              | 2.4 mmHg   |             |
| Dementia                 | 8.85%                  | 10.55%     | $p < 0.001$ |

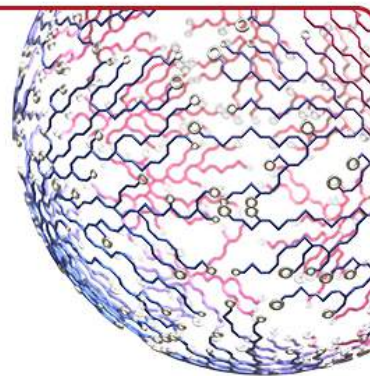
# ECLIPSE-CKD

## Salt substitute in CKD

**Presenter:** Dong Shui (Harbin, China)



#ESCCongress



### Conclusion

In adults with hypertension and CKD, salt substitution lowered BP and modestly increased serum potassium over 3 months, with no episodes of hyperkalaemia.



### Implications

Salt substitution may provide a scalable adjunct to BP management. Further trials are required to establish long-term effects on CV and kidney outcomes, and safety.

## OBJECTIVE

To assess the efficacy and safety of salt substitutes in patients with CKD.

## METHODS

- Hypertension
- eGFR  
45–89 mL/min/1.73 m<sup>2</sup>

**640**  
patients  
randomised 1:1  
7 centres in China

### Salt substitute

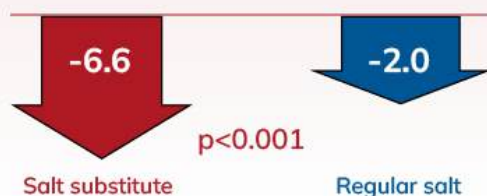
75% sodium chloride and  
25% potassium chloride

### Regular salt

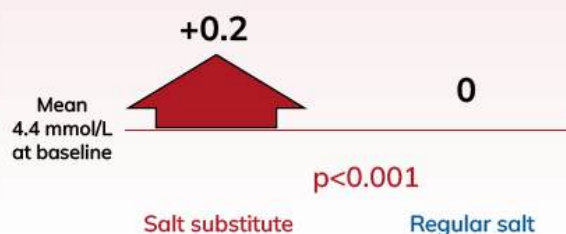
100% sodium chloride

## RESULTS

**Primary endpoint**  
Change in SBP (mmHg)  
from baseline to month 3



Change in serum potassium (mmol/L)  
from baseline to month 3



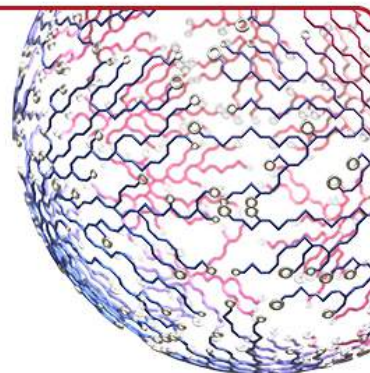
No episodes of hyperkalaemia were observed

# SHASTA-3/4

## Plozasiran in severe hypertriglyceridaemia



#ESCCongress



**Presenter:** Gerald Watts (University of Western Australia - Perth, Australia)



### Conclusion

Plozasiran treatment resulted in substantial reductions in triglyceride levels in patients with severe hypertriglyceridaemia after 1 year.



### Implications

Plozasiran may represent a promising therapy for patients with limited current treatment options.

## OBJECTIVE

To assess plozasiran in patients with severe hypertriglyceridaemia.

## METHODS

- Severe hypertriglyceridaemia (TG  $\geq$  500 mg/dL)

**757**  
patients  
randomised 2:1  
24 countries

**Plozasiran 25 mg  
SC every 3 months**



**Placebo SC  
every 3 months**



## RESULTS

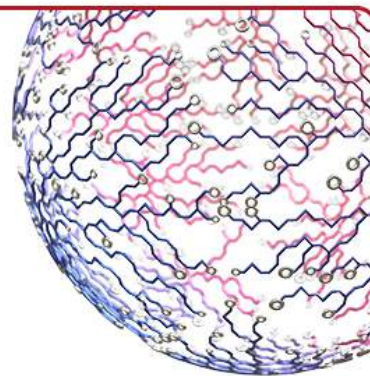
|                                                           | Plozasiran                                   | Placebo |
|-----------------------------------------------------------|----------------------------------------------|---------|
| <b>Primary endpoint</b><br>Median triglyceride reductions | <b>79–81%</b>                                | ~27%    |
| Acute pancreatitis events                                 | Risk ratio 0.22<br>95% CI 0.07–0.67; p=0.008 |         |

# ASPIRED

## Immediate ambulatory ECG monitoring vs standard care in unexplained syncope



#ESCCongress



**Presenter:** Matthew Reed (The Usher Institute - Edinburgh, UK)



### Conclusion

Cardiac monitoring for patients with unexplained syncope did not reduce recurrent syncope but improved detection of arrhythmias and was associated with lower all-cause mortality at 1 year.



### Implications

These findings suggest that early monitoring should be considered as part of routine ED care for patients with unexplained syncope.

### OBJECTIVE

To investigate whether initiating cardiac monitoring at the index ED visit in adults with unexplained syncope improves outcomes.

### METHODS

- Presented to ED
- Unexplained syncope

**2,233**  
patients  
45 centres in UK

randomised  
in ED: 1:1

**ECG monitor  
for 14 days**



1 year

**Standard care**

### RESULTS

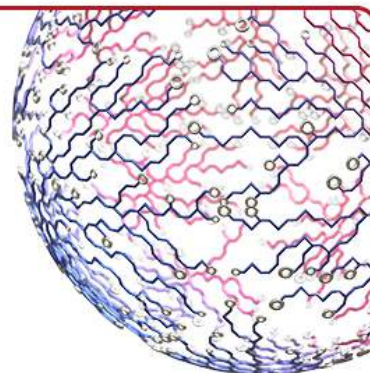
| At 1 year                                                                | ECG monitor     | Standard care |
|--------------------------------------------------------------------------|-----------------|---------------|
| <b>Primary endpoint</b><br>Mean number of self-reported syncope episodes | 1.37 $p=0.43$ ↔ | 1.58          |
| All-cause death                                                          | 1.5% ↓          | 2.9%          |
| Clinically relevant cardiac arrhythmias detected                         | 22.0% ↑         | 9.0%          |

# DANISH-CRT

## Targeted LV lead placement for biventricular pacing for HF



#ESCCongress



**Presenter:** Jens Cosedis Nielsen (Aarhus University Hospital - Aarhus, Denmark)



### Conclusion

Targeted placement of the LV lead at the latest electrically activated site in the coronary sinus branches did not improve outcomes in patients with an indication for CRT vs standard LV lead placement.



### Implications

Data from the trial will be analysed to assess if there are any patient groups that benefit most from CRT.

## OBJECTIVE

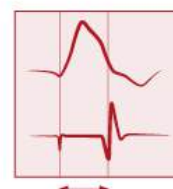
To test whether targeting the LV lead at the site of latest electrical activation in the coronary sinus branches improves outcomes in patients with an indication for CRT.

## METHODS

- HF
- Wide QRS
- On GDMT
- Eligible for biventricular pacing

  
**1,000**  
patients  
randomised 1:1  
5 centres in Denmark

**Targeted LV lead placement**  
at latest electrically activated site in coronary sinus branches



**Standard LV lead placement**

## RESULTS

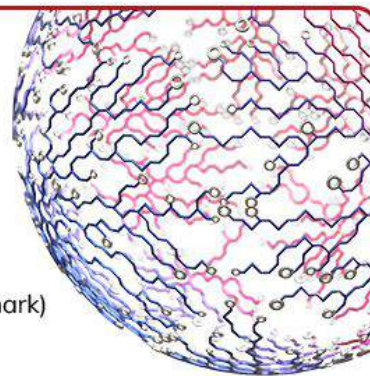
| Median follow-up of 45.8 months                                                       | Targeted lead placement | Standard lead placement |                                        |
|---------------------------------------------------------------------------------------|-------------------------|-------------------------|----------------------------------------|
| <b>Primary endpoint</b><br>Death or first unplanned hospitalisation for heart failure | 27.9%                   | 25.5%                   | HR 1.10<br>95% CI 0.86–1.39;<br>p=0.45 |

# HIS Alternative II

## Direct His/LBB pacing as an alternative to BiV pacing in HFrEF and typical LBBB



#ESCCongress



**Presenter:** Michael Vinther (Rigshospitalet - Copenhagen University Hospital - Denmark)



### Conclusion

In patients with HFrEF and LBBB referred for CRT, conduction system pacing (CSP) was noninferior to biventricular pacing (BiVP) in reducing LVESV after 6 months.



### Implications

CSP offers an effective alternative to BiVP for CRT-eligible patients with HFrEF and LBBB.

## OBJECTIVE

To test whether CSP (via His bundle or LBB pacing) was noninferior to BiVP in patients with HFrEF and LBBB.

## METHODS

- HF and LVEF  $\leq 35\%$
- Sinus rhythm
- LBBB
- On GDMT



**150**

patients  
randomised 2:1

2 centres in Denmark and UK

CSP via  
His-CRT or LBB-CRT

BiVP-CRT

## RESULTS

Primary endpoint  
LVESV change from  
baseline at 6 months

**CSP-CRT**

$35 \pm 22\%$



**BiVP-CRT**

$34 \pm 22\%$



$p < 0.01$  for  
noninferiority

### CSP-CRT vs BiVP-CRT

Similar LVEF, QRS width, symptoms and  
function capacity improvements



Similar  
safety



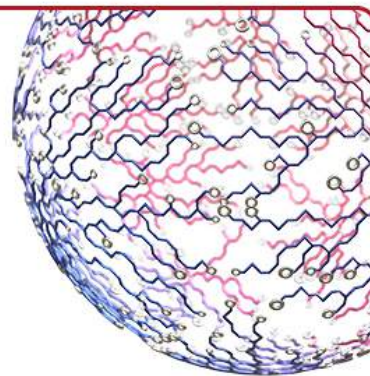
# SyncAV PMT

## Clinical benefit of dynamic AV optimisation in CRT

**Presenter:** Niraj Varma (Cleveland Clinic - Cleveland, USA)



#ESCCongress



### Conclusion

CRT efficacy was robust and similar in both arms overall, but when PR intervals were  $\geq 185$  ms, conventional programming resulted in incomplete electrical resynchronisation that could be corrected by SyncAV CRT to improve clinical outcomes.



### Implications

SyncAV CRT enables dynamic triple fusion pacing to improve outcomes among the 50% of CRT recipients with longer PR intervals.

## OBJECTIVE

To assess dynamic AV interval optimisation with SyncAV vs conventional fixed AV interval.

## METHODS

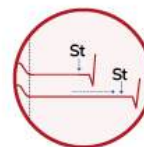
- LBBB
- LVEF  $\leq 35\%$
- PR  $\leq 280$  ms

**1,288**

patients  
randomised 1:1  
96 centres worldwide

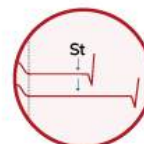
### SyncAV

Dynamic triple fusion pacing



### Fixed AV interval

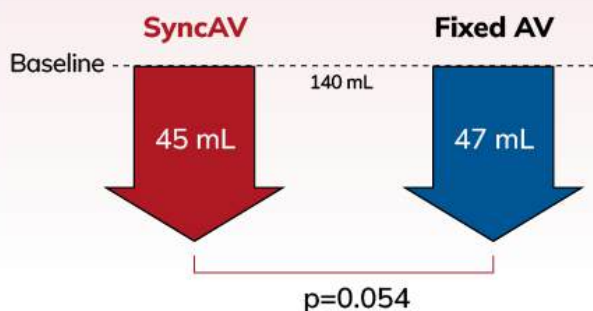
Standard of care



## RESULTS

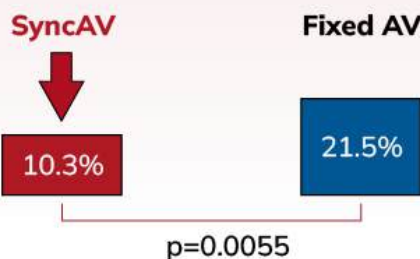
### Overall

Similar LVESV reduction at 12 months



### Baseline PR $\geq 185$ ms

SyncAV reduced all-cause mortality, HF hospitalisations, persistent AF and negative echocardiographic CRT response

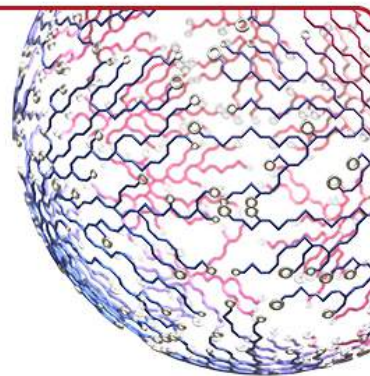


# Syncope-Stopper

## Upfront pacing vs standard care in high-risk unexplained syncope



#ESCCongress



**Presenter:** Jeremy William (The Alfred Hospital - Melbourne, Australia)



### Conclusion

Upfront pacemaker implantation significantly reduced recurrent syncope and incident severe bradyarrhythmia in patients with unexplained syncope selected by the DROP score.\*



### Implications

The DROP score enables targeted, proactive pacing to prevent recurrent syncope and associated morbidity.

## OBJECTIVE

To assess whether upfront pacing improves outcomes in high-risk patients without documented bradycardia.

## METHODS

- Aged  $\geq 55$  y
- Unexplained syncope in last 1 y
- DROP risk score  $\geq 2$

**200**  
patients  
randomised 1:1  
3 centres in Australia

Upfront pacemaker  
implantation within  
30 days



Standard care:  
Holter monitoring or ILR

## RESULTS

|                                                                                                                                    | Upfront<br>pacemaker | Standard<br>care |         |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|---------|
| <b>Primary endpoint</b><br>Recurrent syncope, bradycardia requiring pacemaker,<br>CV death and device-related complications at 1 y | <b>17.2%</b>         | 31.7%            | p=0.014 |
| Recurrent syncope at 1 y                                                                                                           | <b>11.1%</b>         | 21.8%            | p=0.037 |
| Repeat hospitalisations at 1 y                                                                                                     | <b>36.4%</b>         | 63.4%            | p<0.001 |

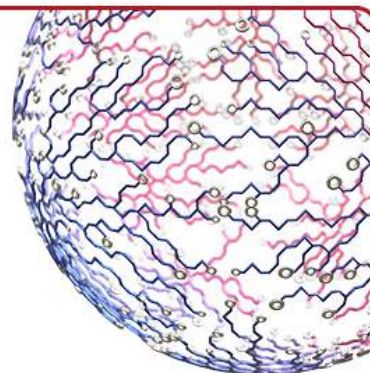
\*Xiao X, et al. Heart Lung Circ. 2022;31:999–1005.

# CoCAP

## Graft patency in ACS patients treated with DAPT or aspirin alone after CABG



#ESCCongress



**Presenter:** Jonas Holm (Linköping University Hospital - Linköping, Sweden)



### Conclusion

Ticagrelor plus aspirin did not improve graft patency compared with aspirin alone after CABG.



### Implications

DAPT does not improve graft patency after CABG.

## OBJECTIVE

To evaluate whether DAPT improves graft patency vs aspirin alone after CABG in a substudy of the TACS trial.

## METHODS

- ACS

**368**  
patients  
randomised 1:1  
6 centres  
Sweden and Norway

CABG

Ticagrelor + aspirin

for 12 months

Aspirin



Coronary CT  
angiography  
Mean 20 months  
after CABG

## RESULTS

|                                                  | Ticagrelor + aspirin |   | Aspirin alone |
|--------------------------------------------------|----------------------|---|---------------|
| <b>Primary endpoint</b>                          | 83.3%                | ↔ | 81.6%         |
| Patient-level vein graft patency (<50% stenosis) | p=0.70               |   |               |

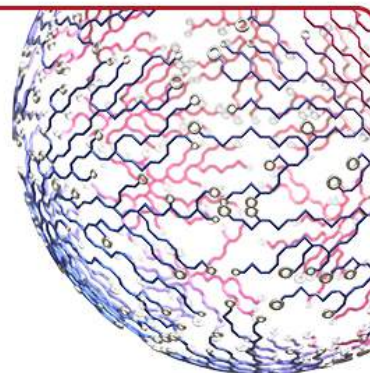
# CorCal

## Pooled cohort equations vs CAC score in ASCVD primary prevention

**Presenter:** Joseph B Muhlestein (Intermountain Medical Center - Murray, USA)



#ESCCongress



### Conclusion

There was no difference in MACE when statin initiation was based on CAC score compared with traditional risk factor assessment.



### Implications

Insights from the trial could be used to plan further studies to improve on current risk assessment.

## OBJECTIVE

To compare the effect on MACE of using the CAC score or the pooled cohort equations to guide statin initiation.

## METHODS

- Without known ASCVD, diabetes or statin therapy
- Registered with Intermountain Health Care, USA

  
**5,772**  
patients  
randomised 1:1

### CAC score

used to guide statin initiation



### Pooled cohort equations

used to guide statin initiation



## RESULTS

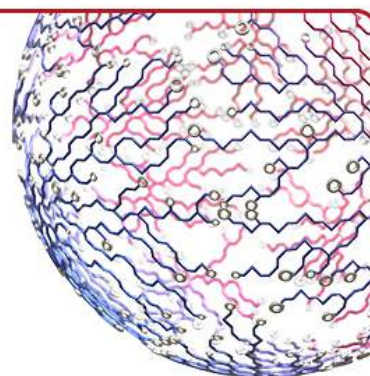
| Follow-up: 4.2 years                                                                              | CAC score           | Pooled cohort equations |                              |
|---------------------------------------------------------------------------------------------------|---------------------|-------------------------|------------------------------|
| <b>Primary endpoint</b><br>MACE<br>All-cause mortality, MI, stroke and arterial revascularisation | 2.7%                | 2.7%                    | p for noninferiority = 0.045 |
| <b>CAC score vs pooled cohort equations</b>                                                       | ↓ Statin initiation | ↑ Statin adherence      |                              |

# EVAOLD

## Evaluation of reperfusion strategies in older patients



#ESCCongress



**Presenter:** Gilles Barone-Rochette  
(University Hospital of Grenoble - La Tronche, France)



### Conclusion

An imaging-guided strategy was not noninferior to routine invasive management for preventing major CV events in older patients with NSTEMI.



### Implications

If clinically feasible, routine invasive management should not be replaced by an imaging-guided strategy.

## OBJECTIVE

To compare an imaging-guided selective strategy with routine invasive management in older patients with NSTEMI.

## METHODS

- $\geq 80$  years
- NSTEMI

**572**  
patients analysed  
25 centres in France

1:1

**Stress imaging-guided selective invasive strategy**



Angiography

No angiography

**Routine invasive strategy**



All angiography

## RESULTS

|                                                                                   | Stress imaging-guided selective invasive strategy | Routine invasive strategy |                                     |
|-----------------------------------------------------------------------------------|---------------------------------------------------|---------------------------|-------------------------------------|
| <b>Primary endpoint</b><br>All-cause death, nonfatal MI or nonfatal stroke at 1 y | 24.1%                                             | 20.7%                     | HR 1.22<br>95% CI 0.86– <b>1.72</b> |
| <b>Noninferiority not met</b><br>Noninferiority criterion: $<1.24$                |                                                   |                           |                                     |

- The trial was stopped for futility at the first prespecified interim analysis

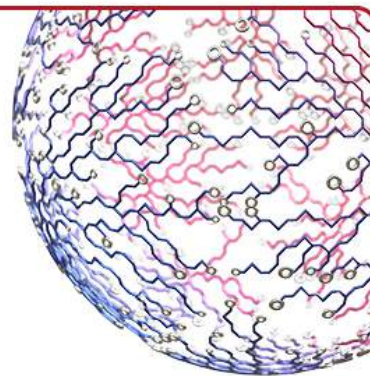
# ISOLEDs

## IVUS vs OCT guidance for PCI of distal left main bifurcation lesions

**Presenter:** Yong Zeng (Beijing AnZhen Hospital, Capital Medical University - Beijing, China)



#ESCCongress



### Conclusion

Optical coherence tomography (OCT) was noninferior to intravascular ultrasound (IVUS) to guide PCI for true distal left main bifurcation lesions.



### Implications

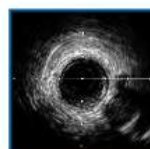
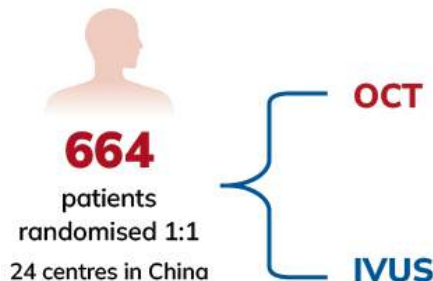
OCT may be considered an alternative to IVUS for imaging these lesions.

## OBJECTIVE

To determine whether image-guided PCI using OCT was noninferior to IVUS in patients with left main bifurcation lesions.

## METHODS

- True distal left main bifurcation lesion



## RESULTS

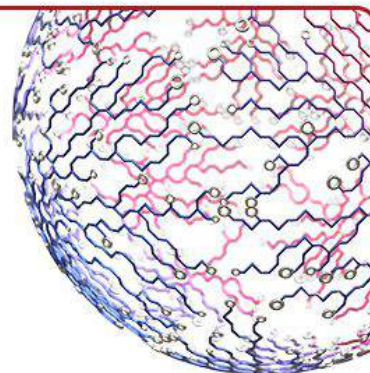
|                                                                                                                                                    | OCT   | IVUS  |                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------------------------------|
| <b>Primary endpoint</b><br>Target lesion failure at 1 year<br>Cardiac death, target lesion MI or clinically driven target lesion revascularisation | 14.4% | 19.6% | p for noninferiority = 0.0003 |

# DISCO and meta-analysis

## Coronary angiography after resuscitated OHCA without ST-elevation



#ESCCongress



**Presenters:** Sten Rubertsson (Uppsala University - Uppsala, Sweden) and Lente Pol (Radboud University Medical Centre - Nijmegen, The Netherlands)



### Conclusion

In unconscious OHCA survivors without ST-elevation, immediate coronary angiography did not improve 30-day survival vs a deferred strategy.



### Implications

The findings support current guideline recommendations against routine immediate coronary angiography in these patients.

## OBJECTIVE

To compare immediate vs deferred coronary angiography in unconscious patients after an OHCA without an ST-elevation.

## DISCO Trial

- Unconscious patients after OHCA
- Return of spontaneous circulation
- No ST-elevation

**1,006**  
patients  
randomised 1:1  
23 centres in Denmark,  
Sweden and  
The Netherlands

**Immediate coronary  
angiography (<120 mins)**



**Deferred coronary  
angiography (≥72 hours)**



|                                             | Immediate | Deferred |                                     |
|---------------------------------------------|-----------|----------|-------------------------------------|
| <b>Primary endpoint:</b><br>30-day survival | 54.6%     | 53.6%    | HR 0.95<br>95% CI 0.74–1.21; p=0.67 |

## Meta-analysis

### Meta-analysis

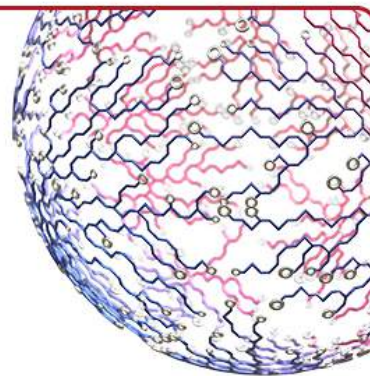
- Included DISCO plus 4 other trials (2,173 patients)
- Results were consistent with the DISCO trial

# HeartRunner

## OHCA survival following community first responder activation



#ESCCongress



**Presenter:** Fredrik Folke (Herlev Gentofte University Hospital - Copenhagen, Denmark)



### Conclusion

Community first responders did not improve 30-day survival after out-of-hospital cardiac arrest.



### Implications

Further studies could assess the effect of first responders in regions with slower ambulance response times.

## OBJECTIVE

To assess the impact of first responder activation on outcomes after out-of-hospital cardiac arrest.

## METHODS

- Out-of-hospital cardiac arrest
- In Capital Region in Denmark

  
**2,060**  
emergency calls  
randomised 1:1



  
**First responder activation**

plus standard response



**No first responder activation**



## RESULTS

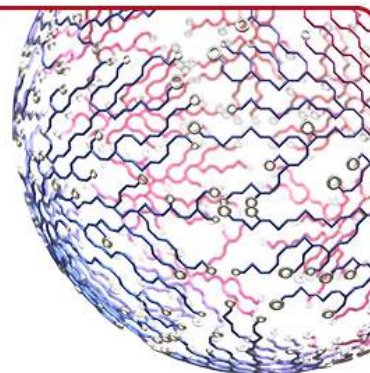
|                                            | When estimated responder arrival time was <3 mins |                               | When estimated responder arrival time was 3–9 mins |                               |
|--------------------------------------------|---------------------------------------------------|-------------------------------|----------------------------------------------------|-------------------------------|
|                                            | First responder activation                        | No first responder activation | First responder activation                         | No first responder activation |
| <b>Primary endpoint</b><br>30-day survival | 15%                                               | 17%                           | 13%                                                | 14%                           |

# LAACS-2

## Left atrial appendage closure with surgery



#ESCCongress



**Presenter:** Helena Dominguez (Bispebjerg University Hospital - Copenhagen, Denmark)



### Conclusion

Results do not support routine LAA closure in all patients undergoing open-heart surgery but those at high stroke risk may benefit.



### Implications

Further follow-up and mechanistic studies may identify which patients benefit most from LAA closure during open-heart surgery.

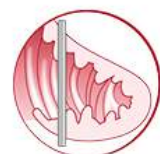
## OBJECTIVE

To investigate if LAA closure during open-heart surgery has a protective effect in patients regardless of prior AF.

## METHODS

- Open-heart surgery
- 4.1% with AF

**1,500**  
patients  
randomised 1:1  
4 centres in Denmark,  
Sweden and Spain



**LAA closure**



**Primary endpoint:**  
Stroke or TIA

**No LAA closure**

## RESULTS

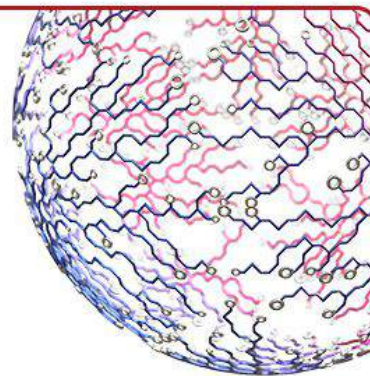
| Median 4 years' follow-up | Stroke or TIA                        |
|---------------------------|--------------------------------------|
| Overall                   | HR 0.85<br>95% CI 0.53–1.37; p=0.517 |
| CHA2DS2-VASc $\geq 3$     | HR 0.44<br>95% CI 0.22–0.90; p=0.018 |
| CHA2DS2-VASc <3           | HR 1.74<br>95% CI 0.86–3.55; p=0.110 |

# PRAGUE 26

## Catheter-directed thrombolysis for pulmonary embolism



#ESCCongress



**Presenter:** Viktor Kočka (Charles University and University Hospital Kralovske Vinohrady - Prague, Czechia)



### Conclusion

Catheter-directed thrombolysis significantly reduced the primary endpoint compared with standard care over 7 days, with no bleeding concerns.



### Implications

The results from PRAGUE-26 could be used to inform future guidelines.

## OBJECTIVE

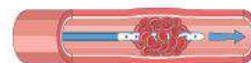
To assess the efficacy and safety of catheter-directed thrombolysis compared with standard care in the treatment of intermediate–high risk PE.

## METHODS

- Acute intermediate–high risk PE

**558**  
patients  
randomised 1:1  
11 centres in Czechia

Catheter-directed  
thrombolysis



Standard anticoagulation



## RESULTS

|                                                                                                                      | Catheter-directed thrombolysis | Standard anticoagulation |                                                    |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|----------------------------------------------------|
| <b>Primary endpoint at 7 days</b><br>All-cause mortality, PE recurrence or cardiorespiratory decompensation/collapse | 0.7% ↓                         | 6.8%                     | Relative risk 0.10<br>95% CI 0.02–0.44;<br>p<0.001 |
| <b>Any bleeding at 7 days</b>                                                                                        | 4.6%                           | 5.0%                     | p=0.846                                            |