

RE-DUAL PCI

A TRIAL EVALUATING ANTITHROMBOTIC THERAPY POST-PCI IN PATIENTS WITH AF¹

Dual therapy (D150 or D110 + P2Y12 inhibitor)



VS

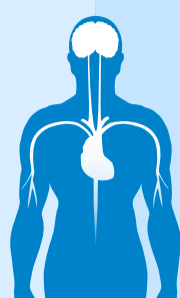


Triple therapy (warfarin + ASA* + P2Y12 inhibitor)

MAIN ANALYSIS¹



All patients



ACS SUBANALYSIS²



Patients with ACS



or without ACS

THE INDEX INDICATION FOR PCI WAS ACS IN APPROXIMATELY 50% OF PATIENTS²

Patient enrolment



All patients

N=2725



With ACS

n=1375[†]

VS



Without ACS

n=1349[†]

LOWER RATES OF ISTH MAJOR OR CRNM BLEEDING[‡] WITH DABIGATRAN VS WARFARIN FOR PATIENTS WITH OR WITHOUT ACS

Primary safety endpoint: ISTH major or CRNM bleeding^{1,2}



All patients

20.2%



Non-inferiority
P<0.001
Nominal
P=0.002



With ACS

20.5%



Interaction
P=0.57



Without ACS

19.9%



15.4%



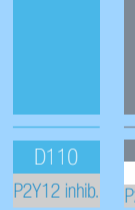
Non-inferiority
P<0.001
Superiority
P<0.001

14.7%



Interaction
P=0.34

16.1%



SIMILAR RATES OF THE COMPOSITE EFFICACY ENDPOINT WITH DABIGATRAN VS WARFARIN FOR PATIENTS WITH OR WITHOUT ACS

Efficacy endpoint: death, thromboembolic event, or unplanned revascularization^{1,2}



All patients

13.7%



Non-inferiority
P=0.005



With ACS

10.5%

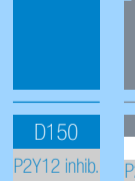


Interaction
P=0.11



Without ACS

13.2%



18.1%



Interaction
P=0.38

12.1%



FINDINGS FOR PATIENTS WITH OR WITHOUT ACS WERE CONSISTENT WITH THE MAIN ANALYSIS

Dual therapy with either dose of dabigatran significantly reduced the risk of bleeding vs warfarin triple therapy in patients with or without ACS, with non-inferior efficacy for the combined dabigatran dose

*ASA was discontinued 1 month after bare-metal stent or 3 months after drug-eluting stent; [†]ACS information not available for one patient; [‡]An ISTH major bleeding event is symptomatic bleeding in a critical area or organ, and/or bleeding associated with reduced haemoglobin ≥ 2 g/dL (1.24 mmol/L) or transfusion of ≥ 2 units of blood or packed cells and/or fatal bleed, while a CRNM bleeding event does not meet the criteria for a major bleed but prompts ≥ 1 of: hospital admission, physician-guided medical or surgical treatment, or physician-guided change, interruption, or discontinuation of study drug

ACS, acute coronary syndrome; AF, atrial fibrillation; ASA, acetylsalicylic acid; BID, twice daily; CRNM, clinically relevant non-major; D110, dabigatran 110 mg BID; D150, dabigatran 150 mg BID; dL, decilitre; ISTH, International Society on Thrombosis and Haemostasis; P2Y12i, P2Y12 inhibitor; P2Y12 inhib., P2Y12 inhibitor; PCI, percutaneous coronary intervention; W, warfarin

1. Cannon CP et al. N Engl J Med 2017;377:1513-24; 2. Oldgren J et al. Presented at AHA 2017

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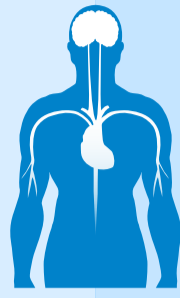
Triple therapy (warfarin + ASA* + P2Y12 inhibitor)

MAIN ANALYSIS¹

P2Y12 INHIBITOR SUBANALYSIS²



All patients



On clopidogrel



or on ticagrelor

MOST PATIENTS (88%) RECEIVED CLOPIDOGREL;
PATIENTS ON TICAGRELOR WERE MORE LIKELY TO HAVE ACS²

Patient enrolment



All patients

N=2725



On clopidogrel

n=2398[†]



or on ticagrelor

n=327[†]

LOWER RATES OF ISTH MAJOR OR CRNM BLEEDING[‡] WITH
DABIGATRAN VS WARFARIN FOR PATIENTS ON EITHER P2Y12 INHIBITOR

Primary safety endpoint: ISTH major or CRNM bleeding^{1,2}



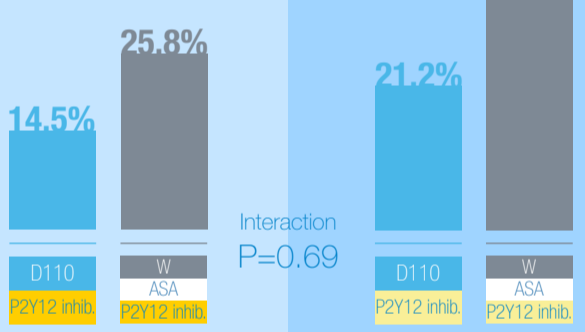
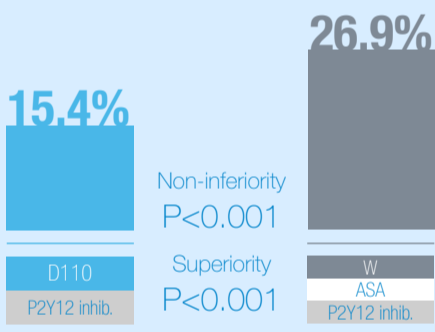
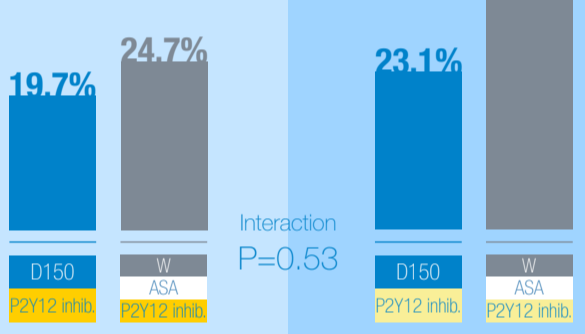
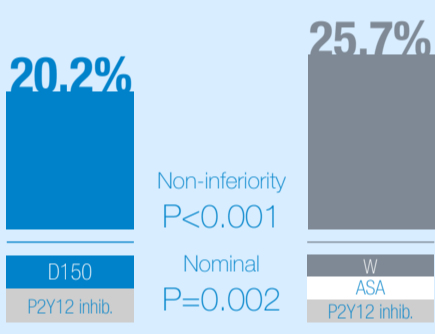
All patients



On clopidogrel



or on ticagrelor



SIMILAR RATES OF THE COMPOSITE EFFICACY ENDPOINT WITH
DABIGATRAN VS WARFARIN FOR PATIENTS ON EITHER P2Y12 INHIBITOR

Efficacy endpoint: death, thromboembolic event, or unplanned revascularization^{1,2}



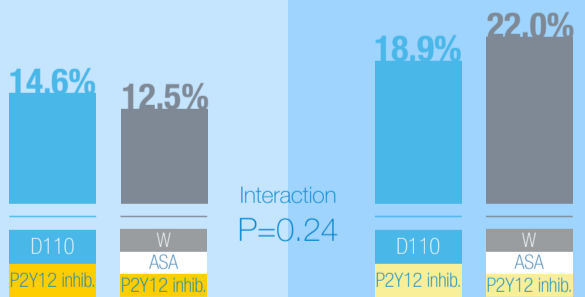
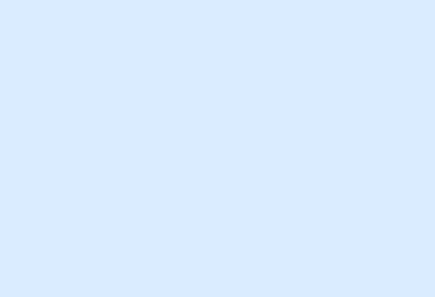
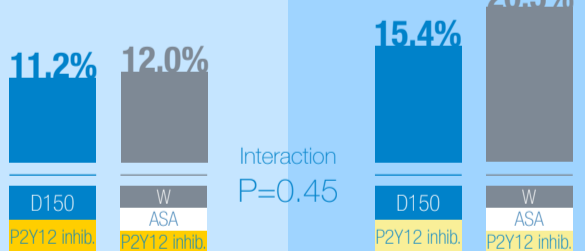
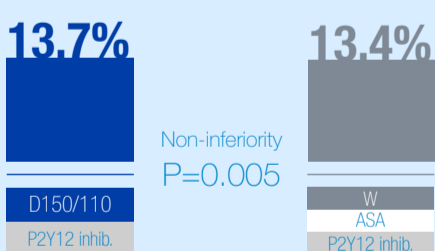
All patients



On clopidogrel



or on ticagrelor



FINDINGS FOR PATIENTS ON EITHER P2Y12 INHIBITOR
WERE CONSISTENT WITH THE MAIN ANALYSIS

Dual therapy with either dose of dabigatran significantly reduced the risk of bleeding vs warfarin triple therapy in patients regardless of P2Y12 inhibitor, with non-inferior efficacy for the combined dabigatran dose

*ASA was discontinued 1 month after bare-metal stent or 3 months after drug-eluting stent; ¹58 patients who received clopidogrel and ticagrelor were included in the ticagrelor subgroup, 93 patients who received neither clopidogrel nor ticagrelor were included in the clopidogrel subgroup; [†]An ISTH major bleeding event is symptomatic bleeding in a critical area or organ, and/or bleeding associated with reduced haemoglobin ≥ 2 g/dL (1.24 mmol/L) or transfusion of ≥ 2 units of blood or packed cells and/or fatal bleed, while a CRNM bleeding event does not meet the criteria for a major bleed but prompts ≥ 1 of: hospital admission, physician-guided medical or surgical treatment, or physician-guided change, interruption, or discontinuation of study drug

ACS; acute coronary syndrome; AF, atrial fibrillation; ASA, acetylsalicylic acid; BID, twice daily; CL, clopidogrel; CRNM, clinically relevant non-major; D110, dabigatran 110 mg BID; D150, dabigatran 150 mg BID; dL, decilitre; ISTH, International Society on Thrombosis and Haemostasis; P2Y12i, P2Y12 inhibitor; P2Y12 inhib., P2Y12 inhibitor; PCI, percutaneous coronary intervention; T, ticagrelor; W, warfarin

1. Cannon CP et al. N Engl J Med 2017;377:1513-24; 2. Oldgren J et al. Presented at AHA 2017

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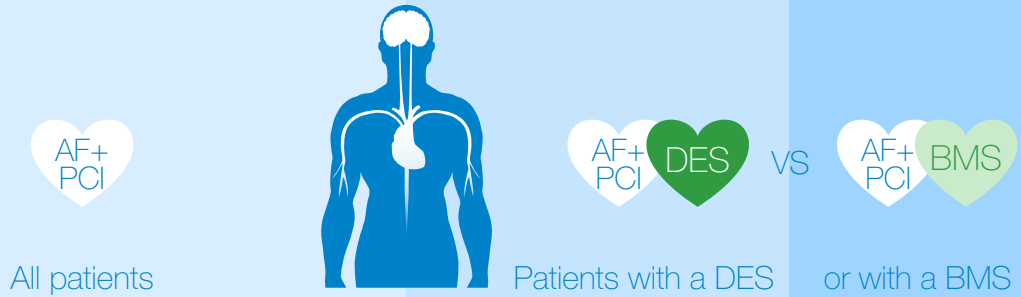
VS



Triple therapy (warfarin + ASA* + P2Y12 inhibitor)

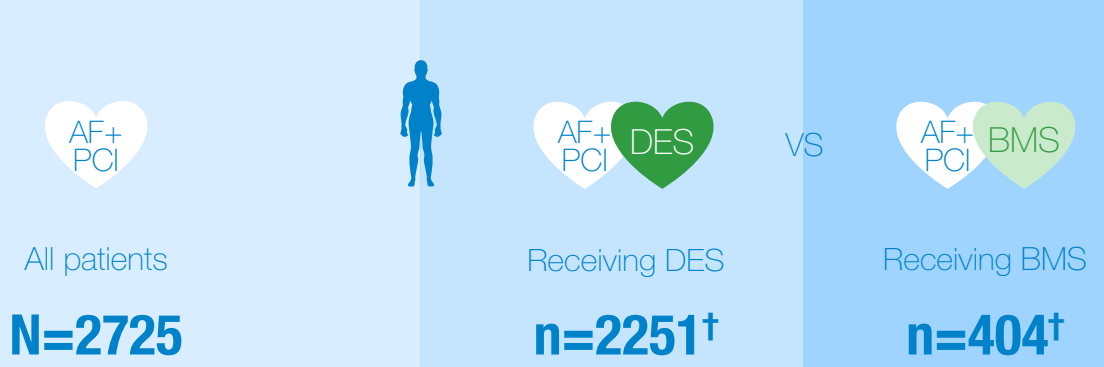
MAIN ANALYSIS¹

STENT TYPE SUBANALYSIS²



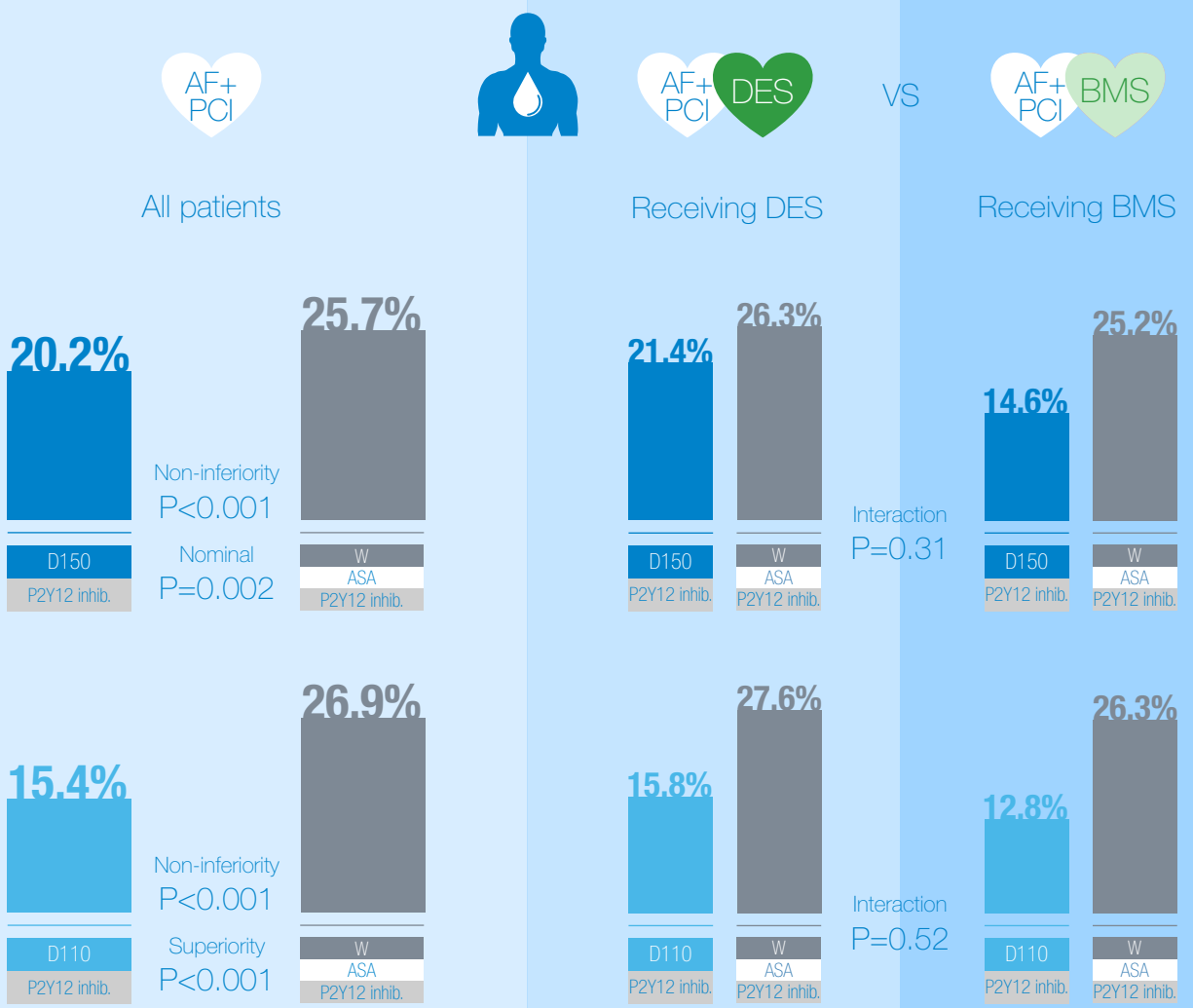
MOST PATIENTS (~85%) HAD A DES PLACED DURING THEIR PROCEDURE²

Patient enrolment



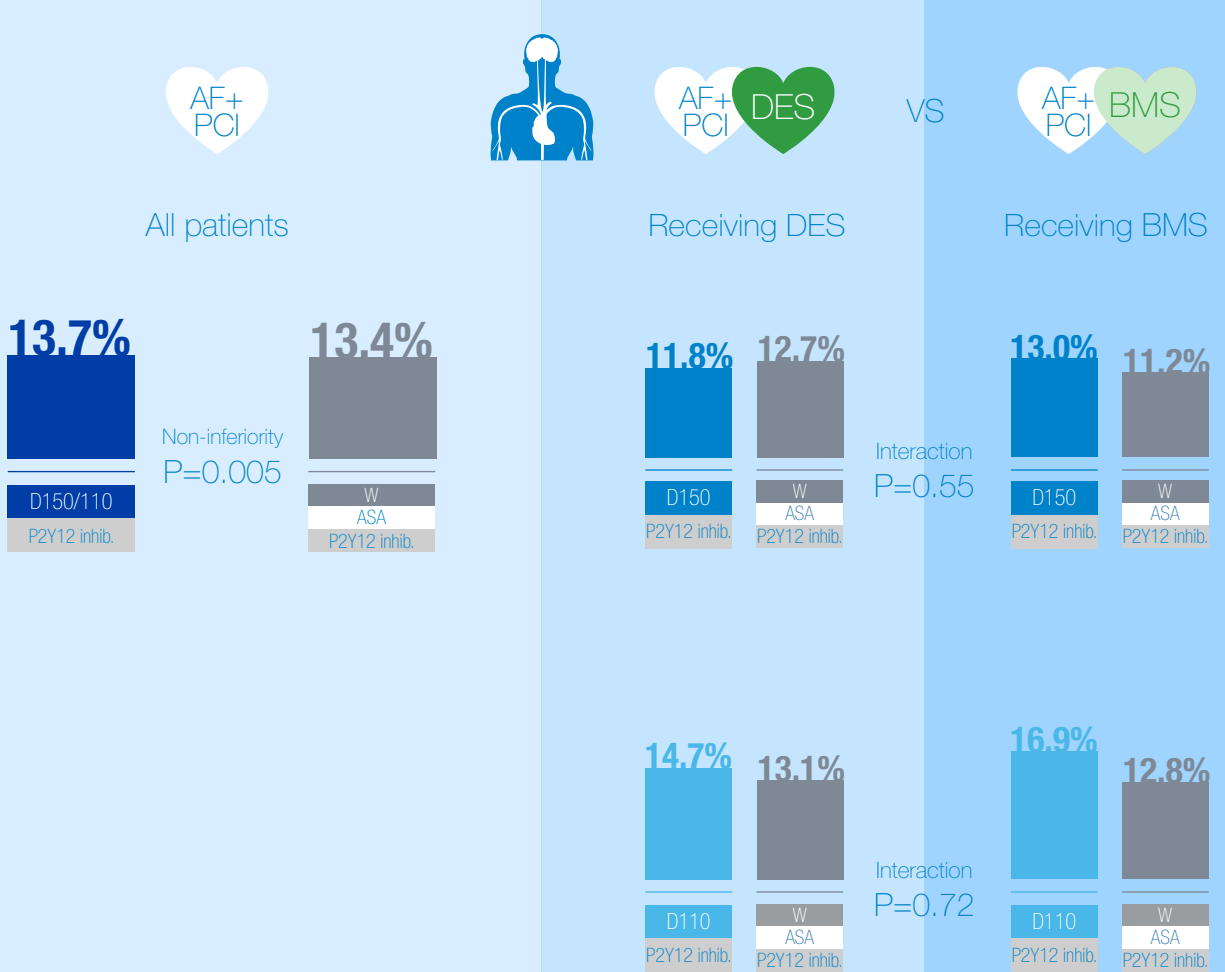
LOWER RATES OF ISTH MAJOR OR CRNM BLEEDING[‡] WITH DABIGATRAN VS WARFARIN REGARDLESS OF STENT TYPE

Primary safety endpoint: ISTH major or CRNM bleeding^{1,2}



SIMILAR RATES OF THE COMPOSITE EFFICACY ENDPOINT WITH DABIGATRAN VS WARFARIN REGARDLESS OF STENT TYPE

Efficacy endpoint: death, thromboembolic event, or unplanned revascularization^{1,2}



FINDINGS FOR PATIENTS RECEIVING A DES OR BMS WERE CONSISTENT WITH THE MAIN ANALYSIS

Dual therapy with either dose of dabigatran significantly reduced the risk of bleeding vs warfarin triple therapy in patients regardless of stent type, with non-inferior efficacy for the combined dabigatran dose

*ASA was discontinued 1 month after bare-metal stent or 3 months after drug-eluting stent; [†]Information on stent type not available for eight patients and excluded for 62 patients with both DES and BMS, or another type of stent; [‡]An ISTH major bleeding event is symptomatic bleeding in a critical area or organ, and/or bleeding associated with reduced haemoglobin ≥ 2 g/dL (1.24 mmol/L) or transfusion of ≥ 2 units of blood or packed cells and/or fatal bleed, while a CRNM bleeding event does not meet the criteria for a major bleed but prompts ≥ 1 of: hospital admission, physician-guided medical or surgical treatment, or physician-guided change, interruption, or discontinuation of study drug

AF, atrial fibrillation; ASA, acetylsalicylic acid; BID, twice daily; BMS, bare-metal stent; CRNM, clinically relevant non-major; D110, dabigatran 110 mg BID; D150, dabigatran 150 mg BID; DES, drug-eluting stent; dL, decilitre; ISTH, International Society on Thrombosis and Haemostasis; P2Y12i, P2Y12 inhibitor; P2Y12 inh., P2Y12 inhibitor; PCI, percutaneous coronary intervention; W, warfarin

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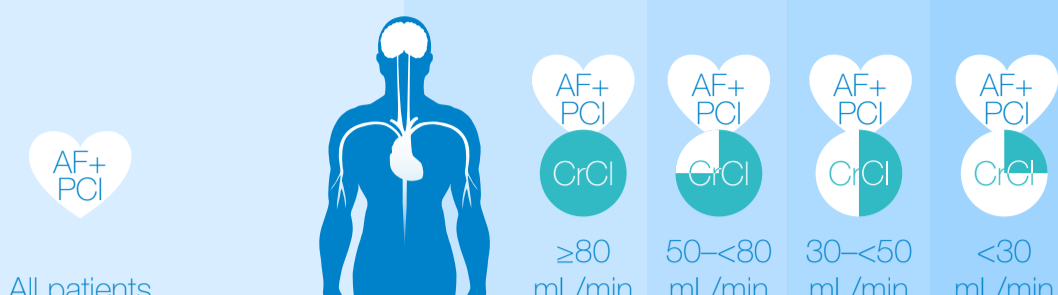
VS



Triple therapy (warfarin + ASA* + P2Y12 inhibitor)

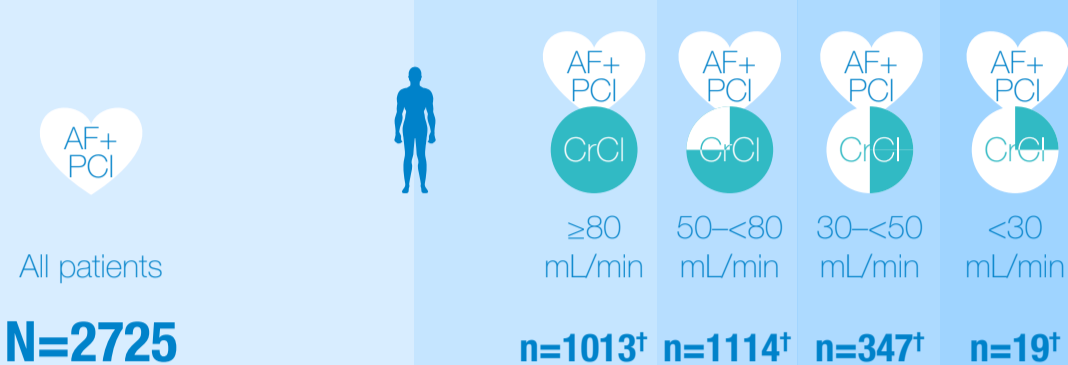
MAIN ANALYSIS¹

RENAL FUNCTION SUBANALYSIS^{2,3}



MOST PATIENTS (78%) HAD A NORMAL OR MILDLY IMPAIRED RENAL FUNCTION AT BASELINE³

Patient enrolment



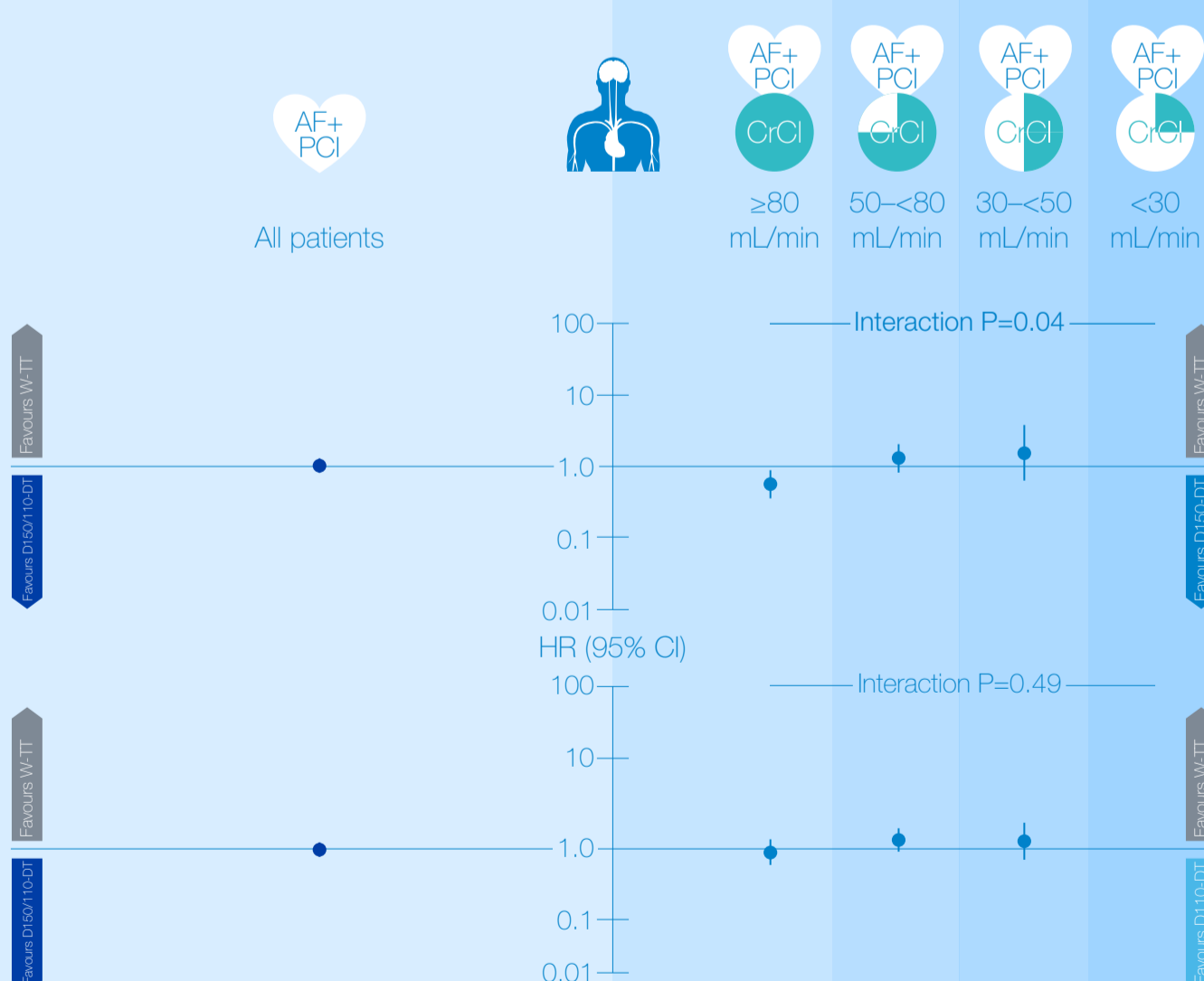
RESULTS FOR THE PRIMARY SAFETY ENDPOINT IN PATIENTS WITH DIFFERING RENAL FUNCTION WERE CONSISTENT WITH THE MAIN ANALYSIS

Primary safety endpoint: ISTH major or CRNM bleeding^{1-3†}



SIMILAR RATES OF THE COMPOSITE EFFICACY ENDPOINT WITH D110 VS WARFARIN REGARDLESS OF RENAL FUNCTION

Efficacy endpoint: death, thromboembolic event, or unplanned revascularization¹⁻³



THERE WAS AN INTERACTION BETWEEN CrCl AND D150-DT, BUT EFFICACY EVENT RATES FOR DABIGATRAN WERE COMPARABLE TO THOSE FOR WARFARIN

Dual therapy with either dose of dabigatran significantly reduced the risk of bleeding vs warfarin triple therapy in patients with differing renal function, with non-inferior efficacy for the combined dabigatran dose

*ASA was discontinued 1 month after bare-metal stent or 3 months after drug-eluting stent; ¹Baseline renal function information was not available for 232 patients, patients with baseline CrCl <30 mL/min should have been excluded from the trial according to the protocol, enrolled patients were still included in the analysis; [†]An ISTH major bleeding event is symptomatic bleeding in a critical area or organ, and/or bleeding associated with reduced haemoglobin ≥ 2 g/dL (1.24 mmol/L) or transfusion of ≥ 1 units of blood or packed cells and/or fatal bleed, while a CRNM bleeding event does not meet the criteria for a major bleed but prompts ≥ 1 of: hospital admission, physician-guided medical or surgical treatment, or physician-guided change, interruption, or discontinuation of study drug

AF, atrial fibrillation; ASA, acetylsalicylic acid; BID, twice daily; CI, confidence interval; CrCl, creatinine clearance; CRNM, clinically relevant non-major; D110, dabigatran 110 mg BID; D150, dabigatran 150 mg BID; dL, decilitre; DT, dual therapy; HR, hazard ratio; ISTH, International Society on Thrombosis and Haemostasis; P2Y12i, P2Y12 inhibitor; PCI, percutaneous coronary intervention; TT, triple therapy; W, warfarin

1. Cannon CP et al. N Engl J Med 2017;377:1513-24; 2. Hohnloser SH et al. JACC 2018;71:314; 3. Hohnloser SH et al. Presented at ACC 2018