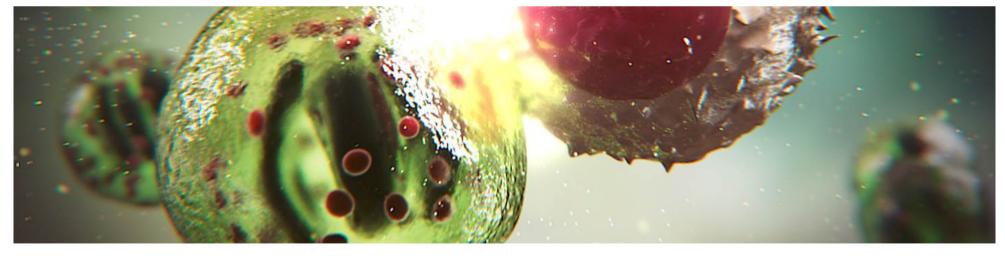


Investor science conference call: American College of Cardiology 2015

San Diego, California, USA 16 March 2015



Cautionary statement regarding forward-looking statements

In order, among other things, to utilise the 'safe harbour' provisions of the US Private Securities Litigation Reform Act 1995, we are providing the following cautionary statement:

This presentation contains certain forward-looking statements with respect to the operations, performance and financial condition of the Group. Although we believe our expectations are based on reasonable assumptions, any forward-looking statements, by their very nature, involve risks and uncertainties and may be influenced by factors that could cause actual outcomes and results to be materially different from those predicted.

The forward-looking statements reflect knowledge and information available at the date of preparation of this presentation and AstraZeneca undertakes no obligation to update these forward-looking statements. We identify the forward-looking statements by using the words 'anticipates', 'believes', 'expects', 'intends' and similar expressions in such statements. Important factors that could cause actual results to differ materially from those contained in forward-looking statements, certain of which are beyond our control, include, among other things: the loss or expiration of patents, marketing exclusivity or trade marks, or the risk of failure to obtain patent protection; the risk of substantial adverse litigation/government investigation claims and insufficient insurance coverage; exchange rate fluctuations; the risk that R&D will not yield new products that achieve commercial success; the risk that strategic alliances and acquisitions will be unsuccessful; the impact of competition, price controls and price reductions; taxation risks; the risk of substantial product liability claims; the impact of any failure by third parties to supply materials or services; the risk of failure to manage a crisis; the risk of delay to new product launches; the difficulties of obtaining and maintaining regulatory approvals for products; the risk of failure to observe ongoing regulatory oversight; the risk that new products do not perform as we expect; the risk of environmental liabilities; the risks associated with conducting business in emerging markets; the risk of reputational damage; the risk of product counterfeiting; the risk of failure to successfully implement planned cost reduction measures through productivity initiatives and restructuring programmes; the risk that regulatory approval processes for biosimilars could have an adverse effect on future commercial prospects; and the impact of increasing implementation and enforcement of more stringent anti-bribery and anti-corruption legislation.

Nothing in this presentation should be construed as a profit forecast.





Introduction

Thomas Kudsk Larsen, Head of Investor Relations



Welcome, agenda & introduction



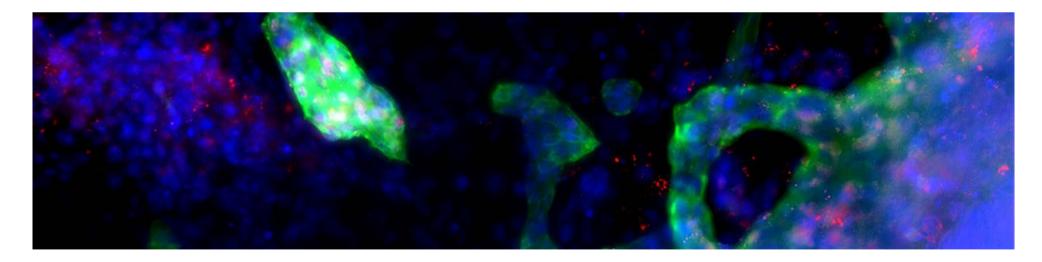




PEGASUS-TIMI 54 trial

Dr. Marc Sabatine, PEGASUS TIMI-54 Primary Investigator

Brigham and Women's Hospital, Massachusetts, USA





Prevention of Cardiovascular Events in Patients With Prior Heart Attack Using Ticagrelor Compared to Placebo on a Background of Aspirin

Marc S. Sabatine, MD, MPH on behalf of the PEGASUS-TIMI 54 Executive & Steering Committees and Investigators

NCT00526474



Background



- Current guidelines recommend adding a P2Y₁₂ receptor antagonist to aspirin only for the first year after an acute coronary syndrome (ACS)
- However, several lines of evidence suggest more prolonged therapy may be beneficial in Pts w/ prior MI
 - Landmark analyses from 1-year ACS trials of P2Y₁₂ antag
 - Post-hoc MI subgroup analysis from CHARISMA
- Ticagrelor is a potent, reversibly-binding, directacting P2Y₁₂ antagonist with established efficacy for the first year after an ACS



Hypothesis



The addition of ticagrelor to standard therapy (including low-dose aspirin) would reduce the incidence of major adverse cardiovascular events during long-term follow-up in patients with a history of MI



Trial Organization



TIMI Study Group

Eugene Braunwald (Chair)
Marc P. Bonaca (Co-PI)
S Morin & P Fish (Operations)

Executive Cmte

Eugene Braunwald (Chair) Deepak L. Bhatt Ph. Gabriel Steg

Sponsor: AstraZeneca

Peter Held Per Johanson Barbro Boberg

Independent Data Monitoring Cmte

Jeffrey L. Anderson (Chair) Freek W.A. Verheugt David L. DeMets Marc S. Sabatine (PI)
Stephen D. Wiviott (CEC Chair)
SA Murphy & Kelly Im (Statistics)

Marc S. Sabatine Marc Cohen Robert Storey

Eva Jensen Ann Maxe Ahlbom Olof Bengtsson

Terje R. Pedersen Harvey D. White



Steering Committee



Argentina

R. Diaz/E Paolasso

Australia
P Aylward
Belgium

F Van der Werf

*Brazil*J Nicolau

Bulgaria A Goudev

Canada

P Theroux

Chile

R Corbalan

China D Hu

Colombia

D Isaza

Czech Republic

J Spinar France

G Montalescot/PG Steg

Germany

C Hamm

Hungary

R Kiss

D Ardissino

Japan

S Goto

Netherlands

T Oude Ophuis

Norway F Kontny

Peru

F Medina

Philippines

MT Abola Poland

A Budai

Romania

D Dimulescu

Russia

M Ruda

S. Africa

A Dalby

S. Korea

K Seung Slovakia

G Kamensky

Spain

J Lopez-Sendon

Sweden

M Dellborg

Turkey

S Guneri

UK

R Storey Ukraine

A Parkhomenko

USA

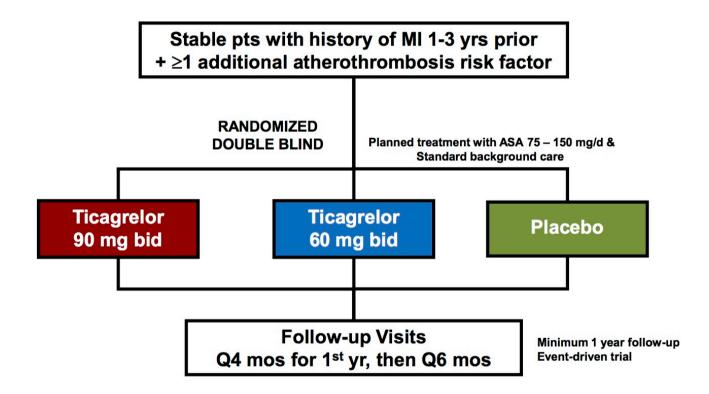
Bonaca/Bhatt/Cohen

10



Trial Design







Key Inclusion & Exclusion Criteria



KEY INCLUSION

- Age ≥50 years
- · At least 1 of the following:
 - Age ≥65 years
 - Diabetes requiring medication
 - 2nd prior MI (>1 year ago)
 - Multivessel CAD
 - CrCl <60 mL/min
- Tolerating ASA and able to be dosed at 75-150 mg/d

KEY EXCLUSION

- Planned use of P2Y₁₂ antagonist, dipyridamole, cilostazol, or anticoag
- Bleeding disorder
- History of ischemic stroke, ICH, CNS tumor or vascular abnormality
- Recent GI bleed or major surgery
- At risk for bradycardia
- Dialysis or severe liver disease



Endpoints



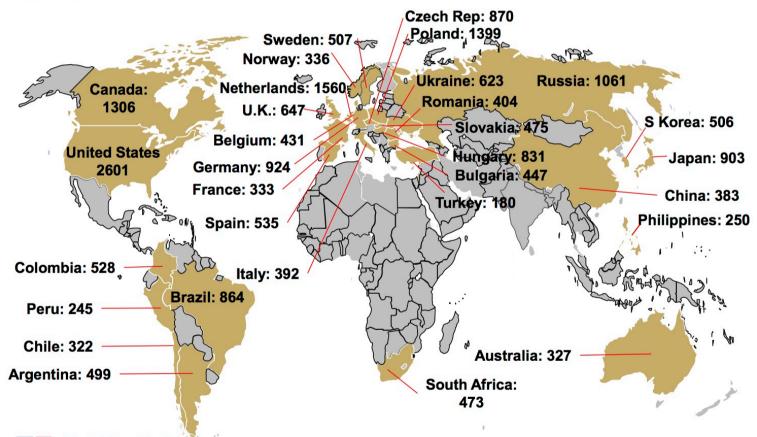
- Efficacy: hierarchical testing
 - Primary: cardiovascular (CV) death, MI, or stroke
 - Secondary: CV death; all-cause mortality
 - Prespecified exploratory: substituting coronary for CV death; other individual coronary and cerebrovascular ischemic outcomes; pooling ticagrelor doses
- Safety
 - Primary: TIMI Major Bleeding
 - Other: intracranial hemorrhage (ICH), fatal bleeding
 - AEs/SAEs
- TIMI Clinical Events Committee (CEC)
 - Adjudicated all efficacy endpoints & bleeding events
 - Members unaware of treatment assignments



Global Enrollment



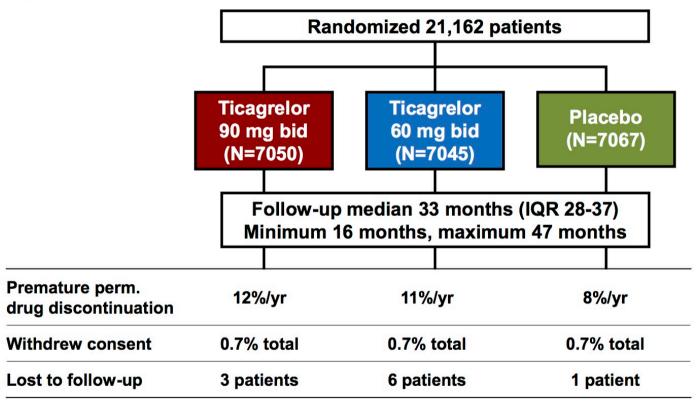
21,162 patients randomized at 1161 sites in 31 countries between 10/2010 - 5/2013





Follow-Up





Ascertainment for primary endpoint was complete for 99% of potential patient-years of follow up



Baseline Characteristics



Characteristic	Value
Age – yr, mean (SD)	65 (8)
Female	24
Hypertension	78
Hypercholesterolemia	77
Current smoker	17
Diabetes mellitus	32
Estimated GFR <60 mL/min/1.73m ²	23
History of PCI	83
Multivessel coronary disease	59
History of more than 1 prior MI	17



Baseline Characteristics



Characteristic			Value		
Qualifying Ever	Qualifying Event				
Years from MI – median (IQR)			1.7 (1.2 – 2.3)		
History of STEMI			53		
History of NSTEMI			41		
MI type unknown			6		
50					
<u>φ</u> 40					
ie 30					
30 of batients 30 10 10 10 10 10 10 10 10 10 10 10 10 10					
% 10					
0					
<3	<3 3-4 4-5 5-6 >6 Years from qualifying MI to end of follow-up				





Baseline Characteristics

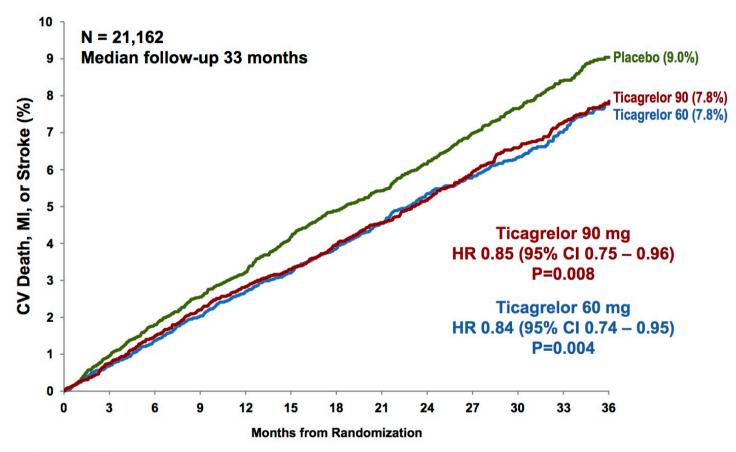


Characteristic	Value
Qualifying Event	
Years from MI – median (IQR)	1.7 (1.2 – 2.3)
History of STEMI	53
History of NSTEMI	41
MI type unknown	6
Medications at enrollment	
Aspirin (any dose)	99.9
Dose 75-100 mg/d	97.3
Statin	93
Beta-blocker	82
ACEI or ARB	80



Primary Endpoint

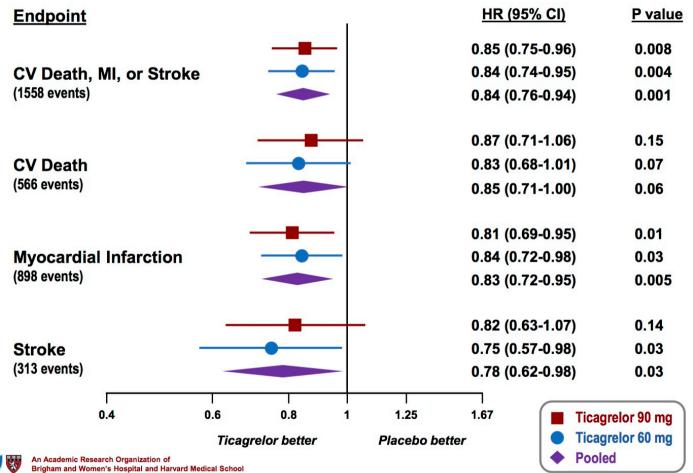






Components of Primary Endpoint







Other Efficacy Outcomes



Outcome	Ticagrelor 90 mg bid (N=7050)	Ticagrelor 60 mg bid (N=7045)	Placebo (N=7067)	Ticagrelor 90 vs Placebo p-value	Ticagrelor 60 vs Placebo p-value
3-yr KM rate (%)					
Coronary Death, MI, or Stroke	7.0	7.1	8.3	HR 0.82 P=0.002	HR 0.83 P=0.003
Coronary Death or MI	5.6	5.8	6.7	HR 0.81 P=0.004	HR 0.84 P=0.01
Coronary Death	1.5	1.7	2.1	HR 0.73 P=0.02	HR 0.80 P=0.09
Death from any cause	5.2	4.7	5.2	HR 1.00 P=0.99	HR 0.89 P=0.14

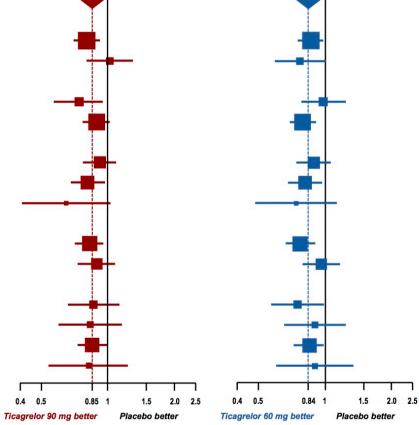


Efficacy for 1° EP in Subgroups



Subgroup	<u>Pts</u>
All Patients	21,162
Age at Randomization	
Age < 75	18,079
Age ≥ 75	3,083
Sex	
Female	5,060
Male	16,102
Qualifying MI	
NSTEMI	8,583
STEMI	11,329
Unknown	1,223
Time from Qualifying MI	
< 2 years	12,980
≥ 2 years	8,155
Region	
North America	3,907
South America	2,458
Europe	12,428
Asia	2,369

Hazard Ratio (95% CI) Hazard Ratio (95% CI) Ticagrelor 90 mg vs Placebo Ticagrelor 60 mg vs Placebo



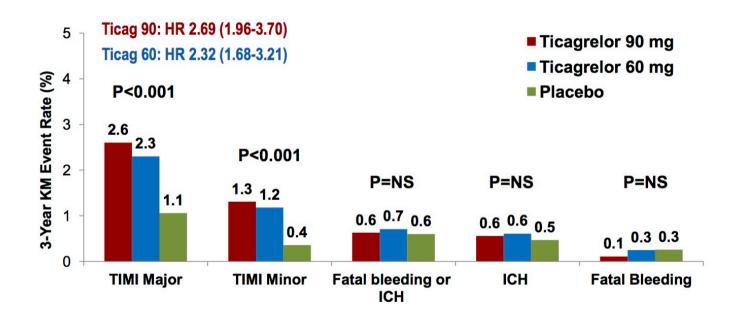
All P values for heterogeneity >0.05





Bleeding







Other Adverse Events



Adverse Event	Ticagrelor 90 mg bid (N=6988)	Ticagrelor 60 mg bid (N=6958)	Placebo (N=6996)	Ticagrelor 90 vs Placebo p-value	Ticagrelor 60 vs Placebo p-value
3-yr KM rate (%)					
Dyspnea AE	18.9	15.8	6.4	P<0.001	P<0.001
Leading to study drug d/c	6.5	4.6	0.8	P<0.001	P<0.001
Severe	1.2	0.6	0.2	P<0.001	P<0.001
Bradyarrhythmia	2.0	2.3	2.0	P=0.31	P=0.10
Gout	2.3	2.0	1.5	P<0.001	P=0.01



Summary



- Adding ticagrelor to low-dose aspirin in stable patients with a history of MI reduced the risk of CV death, MI or stroke
- The benefit of ticagrelor was consistent
 - For both fatal & non-fatal components of primary endpoint
 - Over the duration of treatment
 - Among major clinical subgroups
- Ticagrelor increased the risk of TIMI major bleeding, but not fatal bleeding or ICH
- The two doses of ticagrelor had similar overall efficacy, but bleeding and other side effects tended to be less frequent with 60 mg bid dose



Conclusion



Long-term dual antiplatelet therapy with low-dose aspirin and ticagrelor should be considered in appropriate patients with a myocardial infarction.



BRILINTA® / BRILIQUE™ Clinical & business status

Tom Keith-Roach, BRILINTA® Task Force leader

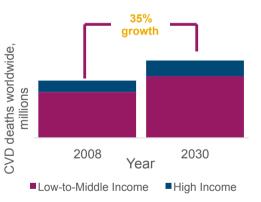




Cardiovascular disease (CVD) worldwide



17.3 million to 23.3 million



~70%
of total global CVD deaths
are due to ischaemic heart
disease and
cerebrovascular disease³

Source, Notes: 1. Global status report on non-communicable diseases 2010. Geneva, World Health Organization, 2011. 2. Mathers CD, Loncar D. Projections of global mortality and burden of disease from 2002 to 2030. PLoS Med, 2006, 3(11):e442. 3. World Heart Federation website, based on World Health Organization causes of death 2008 summary tables

BRILINTA® / BRILIQUE™

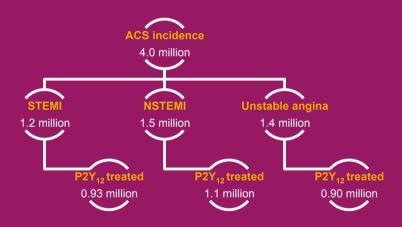
Indicated for the treatment of ACS



Indication

- Indicated to reduce the rate of thrombotic CVD events in patients with ACS
- Shown to reduce the rate of a combined end point of CVD death, MI, or stroke compared to clopidogrel

PLATO¹ study, epidemiology



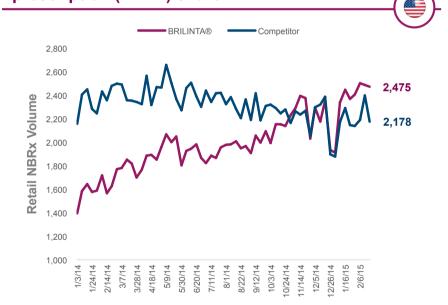
Definitions: ACS – Acute Coronary Syndrome; MI – Myocardial Infarction; STEMI – ST Segment Elevation Myocardial Infarction; NSTEMI – Non-ST Segment Elevation myocardial Infarction; and ASA – Aspirin. **Notes:** 1. Markets include Australia, China, EU5, Japan, Russia and United States only. **Source:** Kantar Health (2010), GRACE registry (2007), National Health & Wellness Survey (2013), medical literature, internal data



US performance

Momentum has led to branded NBRx leadership

Branded oral anti-platelet (OAP) retail new-to-brand prescription (NBRx) share¹











Global performance

Positive momentum continues through FY 2014

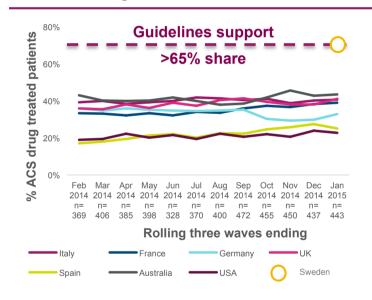




Significant future opportunities

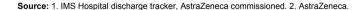
International guidelines support *BRILINTA*® / *BRILIQUE*™ for >65% patients treated for 12 months

ACS discharge share¹



Patients reaching 12 months²

Country	% patients at 12 months
Italy	67%
Australia	51%
United Kingdom	50%
France	41%
Spain	34%
Germany	30%
United States	21%

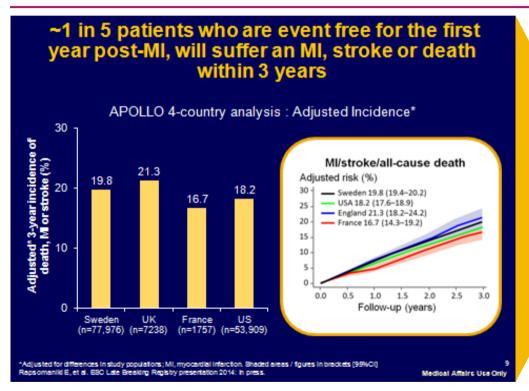




Beyond 12 months

Patients remain at a significant risk

APOLLO; late-breaking registry presentation at the 2014 European Society of Cardiology





Patients who are event free in first year after their index event will suffer a MI, stroke or death in the subsequent three years



PEGASUS-TIMI 54 study of BRILINTA® / BRILIQUE™ meets primary endpoint in both 60mg and 90mg doses

PEGASUS-TIMI 54 study

- Investigated 60mg and 90mg ticagrelor vs. placebo in patients (low-dose aspirin) aged 50 and older with a history of heart attack and one additional CVD risk factor¹
- Designed to better understand the management of patients more than 12 months after their heart attack, who remain at high risk for major thrombotic events

PEGASUS-TIMI 54 study, epidemiology²



Definitions: ACS – Acute Coronary Syndrome; MI – myocardial Infarction; STEMI – ST Segment Elevation myocardial Infarction; NSTEMI – Non-ST Segment Elevation myocardial Infarction; and ASA – Aspirin **Notes:** 1. Bonaca MP, Bhatt DL, Braunwald E, et al. Design and rationale for the Prevention of Cardiovascular Events in Patients With Prior Heart Attack Using Ticagrelor Compared to Placebo on a Background of Aspirin–Thrombolysis in Myocardial Infarction 54 PEGASUS-TIMI 54) trial. Am Heart J. 2014;167:437-44. 2. Markets include Australia, China, EU5, Japan, Russia and United States only. **Source:** Kantar Health (2010), GRACE Registry (2007), National Health & Wellness Survey (2013), medical literature, internal data



Outstanding collaboration with TIMI Study Group Publication, regulatory, prepare to launch

Study metrics

- 21,000 patients in 31 countries
- >210,000 patient visits
- <0.1% patients lost to follow-up

Publication, regulatory

- FDA and EMA submissions complete
- Parallel presentation and publication ACC/ NEJM¹

Towards launch

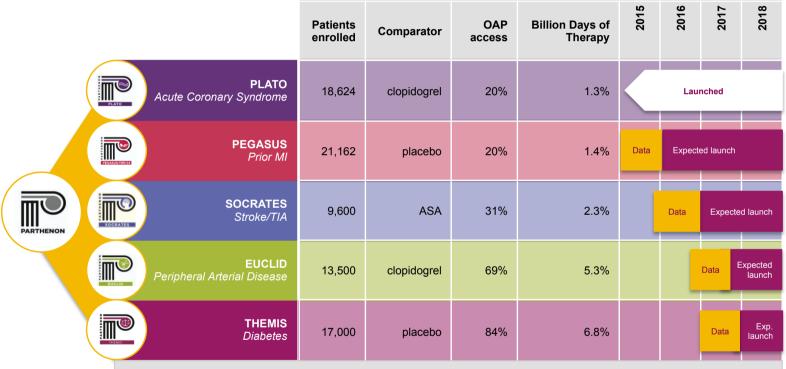
- Regulatory submission
- Pre-launch planning
- Disease and risk education



PARTHENON programme

Four regulatory submissions expected in three years



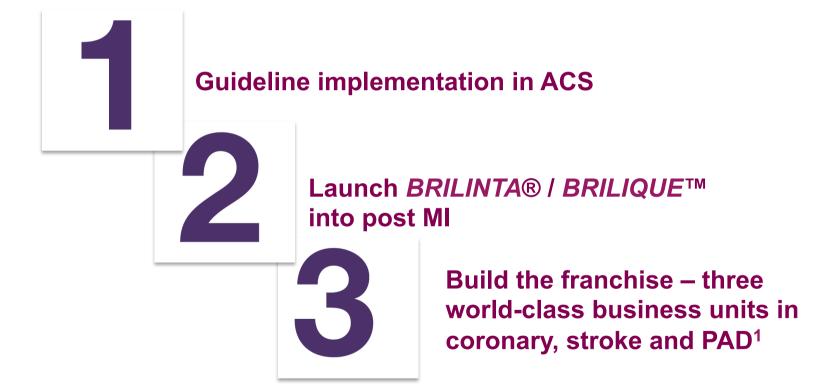


- Increase in access to OAP market volume: >4.2x
- Increase in access to billion Days of Therapy: >5.5x



2015 priorities: Execution and launch







Summary

- Worldwide 2014 sales for BRILINTA® / BRILIQUE™ were \$476m up 70%¹
- Strong brand momentum in the United States continues
- PEGASUS-TIMI 54 met its primary endpoint in both 60mg and 90mg doses
- Upcoming SOCRATES study in stroke: From indication to franchise



Questions & Answers

Participants

- Dr. Marc Sabatine, PEGASUS-TIMI 54 Primary Investigator (P.I.)
- Tom Keith-Roach, BRILINTA® / BRILIQUE™ Task Force leader
- Elisabeth Björk, Head of Global Medicines Development for Cardiovascular and Metabolic Disease
- Marc Ditmarsch, BRILINTA® / BRILIQUE™ Clinical Development Lead
- Tomas Andersson, BRILINTA® / BRILIQUE™ Medical Science Director

Please press *1 on your phone to indicate that you wish to ask a question