

Comparison of an everolimus-eluting bioresorbable scaffold with an everolimus-eluting metallic stent in routine PCI: three-year clinical outcomes from the AIDA trial



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A list of the study collaborators can be found in the Appendix.

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Introduction

We conducted the AIDA trial comparing the AbsorbTM bioresorbable vascular scaffold (BVS; Abbott Vascular, Santa Clara, CA, USA) with the XIENCE everolimus-eluting stent (EES; Abbott Vascular) in daily practice to assess the complete safety and efficacy of the Absorb throughout the scaffold bioresorption period. Preclinical studies have shown that scaffold bioresorption takes 36 months¹. Clinical studies have demonstrated that this period of scaffold bioresorption is associated with higher rates of device thrombosis². Therefore, we herein report the complete three-year clinical outcomes of the Absorb in comparison with the XIENCE.

Methods

The study design, study population and endpoint definitions have been reported in detail previously^{3,4}. All major adverse events were adjudicated by an independent clinical events committee. Time-to-event curves were constructed using the Kaplan-Meier method, and compared by log-rank test. Hazard ratios were determined using Cox regression.

Results

Baseline patient, lesion and procedural characteristics have been described previously^{4,5}. Clinical status at three-year follow-up was known in 97.7% of patients.

Target vessel failure, cardiac death and target vessel revascularisation continued to accrue at similar rates up to three years in both arms (Figure 1A, Figure 1B). The incidence of target vessel myocardial infarction (TV-MI) was significantly higher in the Absorb arm compared to the XIENCE arm (Table 1, Figure 1C). At three years, 30 patients had definite scaffold thrombosis and five patients had definite stent thrombosis (Table 2, Figure 1D). No case of additional stent thrombosis was noted between two and three years, against four cases of additional scaffold thrombosis. Of note, only one very late definite scaffold thrombosis (VLST) occurred in a patient on dual antiplatelet therapy (DAPT); the other patients with VLST were on single antiplatelet therapy (Supplementary Table 1).

Discussion

AIDA is the largest randomised trial comparing the Absorb BVS to the XIENCE EES in daily practice. At three years, significantly

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Figure 1. Time-to-first event curves. A) Target vessel failure. B) Cardiac death. C) TV-MI. D) Definite device thrombosis up to three years.

Table 1. Clinical outcomes up to 3 years.

	Absorb (n=924)	XIENCE (n=921)			Total number of events reported before data lock on 29 December 2018*		
					Absorb	XIENCE	
All-cause death	44 (4.8%)	52 (5.7%)	0.84 (0.56-1.26)	0.397	54	68	
Cardiac death	23 (2.5%)	26 (2.9%)	0.88 (0.50-1.54)	0.656	28	31	
Cardiovascular death	28 (3.1%)	28 (3.1%)	0.99 (0.59-1.68)	0.986	33	36	
All myocardial infarction	74 (8.2%)	49 (5.5%)	1.52 (1.06-2.19)	0.021	86	53	
Target vessel myocardial infarction	54 (5.9%)	35 (3.9%)	1.55 (1.01-2.37)	0.041	61	39	
Non-target vessel myocardial infarction	21 (2.4%)	14 (1.6%)	1.49 (0.76-2.93)	0.241	26	15	
Any revascularisation	140 (15.5%)	120 (13.4%)	1.17 (0.92-1.49)	0.206	162	127	
Target vessel revascularisation	90 (10.0%)	77 (8.6%)	1.17 (0.86-1.59)	0.304	105	79	
Target lesion revascularisation	71 (7.9%)	52 (5.8%)	1.37 (0.96-1.96)	0.082	78	56	
Composite endpoints							
Target vessel failure [#]	123 (13.5%)	110 (12.1%)	1.13 (0.87-1.46)	0.364	142	118	
Target lesion failure [¶]	107 (11.7%)	92 (10.2%)	1.17 (0.89-1.55)	0.265	119	100	
Patient-oriented composite endpoint [‡]	195 (21.3%)	177 (19.3%)	1.11 (0.91-1.36)	0.305	224	197	

^op-values were calculated by the log-rank test. *Composite of cardiac death, target vessel myocardial infarction and target vessel revascularisation. *Composite of cardiac death, target vessel myocardial infarction and target lesion revascularisation. *Composite of death, myocardial infarction or any revascularisation. *No data sweep was performed, therefore no p-values or Kaplan-Meier estimates are given.

	Absorb (n=924)	XIENCE (n=921)	Hazard ratio (95% Cl)	<i>p</i> -value [◊]	renorted hef	er of events ore data lock mber 2018*
					Absorb	XIENCE
Definite	30 (3.3%)	5 (0.5%)	6.02 (2.34-15.52)	<0.001	33	8
Probable	4 (0.4%)	3 (0.3%)	1.33 (0.30-5.93)	0.709	5	4
Possible	8 (0.9%)	15 (1.7%)	0.53 (0.22-1.25)	0.140	10	16
Definite/probable	34 (3.7%)	8 (0.9%)			38	12
≤24 hours (acute)	3	3			3	3
>24 hours to 30 days (subacute)	10	2			10	2
31 days to 1 year (late)	8	1	4.07 (1.07.0.01)	.0.001	8	1
1-2 years (very late)	9	2	4.27 (1.97-9.21)	<0.001	9	2
2-3 years (very late)	4	0			4	0
3-4 years (very late)	-	-			4	3
4-5 years (very late)	_	-			0	1
Any device thrombosis	42 (4.6%)	23 (2.6%)	1.84 (1.10-3.05)	0.017	48	28

Table 2. Incidence of device thrombosis up to 3-year follow-up.

^o*p*-values were calculated by the log-rank test. *No data sweep was performed, therefore no *p*-values or Kaplan-Meier-estimates are given.

higher rates of TV-MI and definite device thrombosis were seen in the Absorb arm. There was only one VLST in an Absorb-treated patient who continued on DAPT up to three years. The other patients with VLST were on single antiplatelet therapy. The threeyear point after Absorb implantation is an important landmark as three years is the approximate period of scaffold polymer absorption¹. Intraluminal scaffold dismantling and the bioresorption process are possibly underlying mechanisms of VLST⁶. Traces of scaffold have been seen beyond three years; whether DAPT should be continued after three years is still uncertain.

Limitations

The lack of systematic intravascular imaging precludes more definite conclusions about the mechanisms related to Absorb failure at different time points. Restarting or prolonging DAPT up to three years after scaffold implantation was recommended at the request of the data safety monitoring board. This recommendation might have influenced the occurrence of thrombosis-related outcomes.

Conclusions

Target vessel failure continued to accrue up to three years in both Absorb and XIENCE. However, the Absorb was associated with higher rates of TV-MI and definite scaffold thrombosis. Long-term follow-up is necessary to examine whether the annual rates of device-related events will decline in Absorb-treated patients after scaffold bioresorption.

Impact on daily practice

As in other trials, Absorb continued to demonstrate higher rates of scaffold thrombosis and TV-MI compared to XIENCE up to threeyear follow-up. Longer-term follow-up of AIDA will provide insights into the long-term safety and potential benefit of Absorb and whether patients treated with Absorb should continue using DAPT.

Appendix. Study collaborators

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Conflict of interest statement

J. Tijssen served on the DSMB of the early ABSORB trials, including ABSORB II. J. Henriques received research grants from Abbott Vascular. J. Wykrzykowska received consultancy fees and research grants from Abbott Vascular. The other authors and collaborators have no conflicts of interest to declare.

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Supplementary data

Supplementary Table 1. Descriptive characteristics of cases of definite device thrombosis.

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Supplementary data

Supplementary Table 1. Descriptive characteristics of cases of definite device thrombosis.

Case	Group	Initial PCI indication	Treated vessel	Lesion type	Ref size	Predilatation	Stent size	Post- dilatation	Initial DAPT therapy	Days to DT	DAPT therapy	Clinical outcome	Patient notes		
		maleation	VESSEI	type	(mm)	(atm)	(atm)	(atm)	therapy	10 01	Type of DT	(worst)			
	Absorb								ASA		ASA	Myocardial	Dissection		
1	BVS	STEMI	Mid RCA	B2	4.0x15	3.0x15 (12)	3.5x18 (13)	4.0x12 (13)	Ticagrelor	0	Ticagrelor	infarction	distal of stent (OCT)		
	Absorb			5.0				0 5 40 (00)	ASA		ASA	Myocardial	Distal edge		
2	BVS	STEMI	Prox LAD	B2	3.5x18	3.5x20 (6)	3.5x18 (14)	3.5x12 (20)	Ticagrelor	1	Ticagrelor	infarction	dissection (OCT)		
3	Absorb	AP	Mid RCA	B2	3.0x15	3.0x15 (10)	3.5x18 (14)	4.0x12 (14)	ASA	2	ASA	Myocardial infarction	Malapposition		
5	BVS	Ar	WIIU NCA	DZ	5.0815	3.0813 (10)	5.5818 (14)	4.0/12 (14)	Clopidogrel	Z	Clopidogrel		stent (OCT)		
4	Absorb	b AP	Mid RCA	С	3.0x46	2.5x20 (16)	3.0x28 (12)	3.0x20 (18)	ASA	3	ASA	Myocardial			
4	BVS	Ar		C	5.0x40	2.3x20 (10)	3.0x18 (14)	3.0220 (18)	Clopidogrel	5	Clopidogrel	infarction			
5	Absorb	STEMI	Prox LAD	С	3.5x21	2.0x12 (12)	3.0x15 (14)	3.75x15	ASA	4	ASA	Myocardial			
J	BVS	STEIVIT	FIOX LAD	C	3.3721	2.0/12 (12)	3.5x12 (16)	(22)	Clopidogrel	4	Clopidogrel	infarction			
<i>c</i>	Absorb	rb	Distal	52	2 5 20	2 5 20 (40)	2 5 22 (42)	2 5 22 (1 4)	ASA	-	ASA	Myocardial infarction	Possible low		
6	BVS	AP	RcX	B2	2.5x28	2.5x20 (10)	2.5x28 (10)	2.5x20 (14)	Clopidogrel	5	Clopidogrel		therapy compliance		
-	Absorb	Stabilised	D DC4	<u> </u>	2.0.20	3.5x15 (12)	3.5x18 (14)		ASA	c		Myocardial	Patient forgot		
7	BVS	STEMI	Prox RCA	С	3.0x30	Rotablation	3.5x18 (14)	3.5x15 (14)	Ticagrelor	6	ASA	infarction	to take ticagrelor		
8	Absorb	NSTEMI	Prox LAD	B2	2.5x15	2.5x15 (UN)	2.5x18 (10)	3.0x12 (12)	ASA	11	ASA	Myocardial			
0	BVS		FIUX LAD	BZ	2.3813	2.3713 (00)	2.3710 (10)	5.0X12 (12)	Ticagrelor	11	Ticagrelor	infarction			
	Absorb		Prox LAD STEMI Distal RCA	Prox LAD	Prox LAD	С	3.0x25	2.5x20 (8)	3.0x28 (10)	3.5x15 (10)				Myocardial	ST in both LAD
9 BVS	STEMI	STEMI		С	2.7x25	3.5x20 (12)	2.5x28 (14)	No	ASA	29	ASA	infarction	and RCA		

			Mid RCA	С	2.7x25	2.5x20 (10)	3.0x28 (14)	No	Ticagrelor		Ticagrelor				
			Mid RCA	С	2.7x25	3.5x20 (10)	2.5x28 (14)	No	licagieioi		Ticagreior				
	Absorb		Mid LAD	B2	3.0x45	2.5x20 (14)	2.5x23 (16)	4.0x15 (18)	ASA		Clopidogrel	Muccordial	Malannasitian		
10	BVS	NSTEMI					3.0x28 (18)		Ticagrelor	46	ciopidogrei	Myocardial infarction	Malapposition stent (OCT)		
			Prox LAD	B1	4.0x15	2.5x20 (14)	3.5x18 (18)	4.0x15 (18)	OAC		OAC				
11	Absorb	ΠΔΡ	ΠΔΡ	UAP	Mid LAD	B1	3.0x12	2.5x15 (10)	3.0x18 (12)	No	ASA Ticagrelor	86	ASA	Myocardial	Interaction ticagrelor and
	BVS	0/1		01	0.0/12	2.5/15 (10)	010/10 (12)		licagieioi			infarction	HIV medication		
									ASA			Non-fatal MI			
12	Absorb BVS	NSTEMI	Prox RCA	B1	3.5x10	3.0x15 (12)	3.5x12 (14)	3.5x8 (22)	Clopidogrel	100	Clopidogrel	followed by cardiac			
	005								OAC		OAC	death			
13	Absorb	UAP	Mid LAD	B1	3.5x15	2.0x15 (18)	3.5x18 (10)	3.5x15 (16)	ASA	161	None	Myocardial	DAPT cessation		
	BVS	UAF		DI	5.5715	2.0113 (18)	5.5×18 (10)	3.3813 (10)	Ticagrelor	101	NOTE	infarction	during surgery		
14	Absorb	b NSTEMI	STEMI Prox RcX	rox RcX B2	3.0x28	2.5x15 (12)	3.0x28 (14)	3.5x15 (14)	ASA	185	185 None	Myocardial	DAPT cessation		
	BVS		TTOX NEX	02	5.0720	2.5815 (12)	5.6726 (14)	3.3X13 (14)	Ticagrelor			infarction	during surgery		
15	Absorb	STEMI	Mid LAD	B1	2.5x23	2.0x20 (14)	2.5x23 (14)	2.5x15 (18)	ASA	234	ASA	Myocardial			
	BVS			_					Ticagrelor		Ticagrelor	infarction			
16	Absorb	AP	RcX, OM	B1	2.5x12	2.5x15 (8)	2.5x18 (6)	No	ASA	249	ASA	Myocardial infarction	History of low therapy		
10	BVS	AP	RCA, UIVI	DI	2.5X12		2.5X10 (0)	No	Ticagrelor	249	ASA		compliance		
						2.5x15 (8)			ASA				Dissection		
17	Absorb BVS	NSTEMI	Prox RcX	B2	2.5x15		2.5x18 (14)	4) 2.75x15 (16)		352	ASA	Myocardial infarction	after stent implantation		
	210					Rotablation			Ticagrelor				(angio)		
	Absorb	AP	AP	Mid RCA	B2	3.5x25	2.5x20 (12)	3.5x28 (12)	4.0x15 (10)	ASA			Myocardial	Malapposition	
18	BVS			Distal RCA	B2	3.0x15	2.5x20 (12)	3.0x18 (14)	No	Ticagrelor	376	ASA	infarction	distal stent (OCT)	
10	Absorb	CTEN 41	Distal	B2	2.0.24	2.020 (10)	2 0	2 5.45 (10)	ASA	410	ASA	Myocardial			
19	BVS	STEMI	RCA		3.0x24	2.0x20 (10)	3.0x27 (8)	3.5x15 (18)	Ticagrelor	419		infarction			
20	Absorb BVS	AP	Dist RcX	B1	3.0x10	3.0x15 (18)	3.0x18 (12)	No	ASA Ticagrelor	427	OAC	Myocardial infarction			

									OAC				
21	Absorb BVS	STEMI	Mid RCA	В2	3.5x23	3.5x20 (10)	3.5x28 (12)	3.5x15 (12)	ASA Prasugrel OAC ASA stop after 3 months	430	None	Non-fatal MI followed by cardiac death	OAC cessation during surgery (Clexane)
22	Absorb	Angio-	Prox RCA	B1	4.0x16	3.0x20 (16)	3.5x28 (16)	4.0x20 (12)	ASA	437	Unknown	Myocardial	
	BVS	driven	Prox RcX	А	3.5x12	3.0x12 (14)	3.0x23 (16)	3.5x40 (16)	Clopidogrel	437	UTIKITUWIT	infarction	
23	Absorb	STEMI	Prox RCA	B2	2.5x15	2.5x15 (10)	3.0x18 (12)	No	ASA	461	ASA	Myocardial	
25	BVS	Staged	Prox RcX	B1	3.0x12	3.0x15 (10)	3.0x18 (14)	No	Ticagrelor	401	737	infarction	
24	Absorb BVS	AP	Distal LAD	B1	3.0x8	2.5x28 (14)	3.0x28 (14)	3.0x28 (14)	ASA	ASA 471	Myocardial infarction		
	_	_	Prox LAD	А	3.5x12	3.0x12 (14)	3.5x12 (14)	3.5x14 (14)	Ticagrelor		Ticagrelor	infarction	
25	Absorb BVS	STEMI	Prox RCA	С	3.5x18	3.0x15 (12)	3.5x23 (16)	4.0x20 (16)	ASA Prasugrel	567	ASA	Myocardial infarction	
26	Absorb BVS	STEMI	Mid RCA	B2	3.0x25	3.0x15 (12)	3.0x28 (10)	2.25x20 (13)	ASA Ticagrelor	593	ASA	Myocardial infarction	
27	Absorb BVS	STEMI	Prox LAD	С	3.5x21	2.5x20 (10)	3.5x23 (18)	3.5x15 (18)	ASA Ticagrelor	733	ASA	Myocardial infarction	Patient refused to re-start DAPT
28	Absorb BVS	NSTEMI	AO-MO graft	B2	3.0x18	2.0x15 (12)	3.0x18 (10)	3.0x12 (14)	ASA Clopidogrel	769	ASA	Myocardial infarction	
29	Absorb BVS	AP	Prox LAD	А	3.5x8	3.0x15 (12)	2.5x12 (12)	3.5x8 (20)	ASA Clopidogrel	817	ASA	Myocardial infarction	Malapposed non-covered struts distally (OCT)
30	Absorb BVS	NSTEMI	RcX, MO	B1	2.5x10	2.5x15 (20)	2.5x12 (16)	2.75x15 (18)	ASA Ticagrelor Clopidogrel	825	ASA	Myocardial infarction	· ·
31	Absorb	Stabilised	Distal LAD	С	2.5x45	2.5x30 (12)	2.5x28 (16)	No	ASA	1,277	Unknown	Myocardial infarction	ST in LAD
	BVS	STEMI	First Diagonal	B2	3.5x12	3.5x15 (16)	3.5x12 (14)	4.0x9 (14)	Ticagrelor				ST IN LAD

32	Absorb BVS	AP	Distal RcX	B1	3.0x18	2.5x15 (12)	2.5x18 (14)	2.5x12 (16)	ASA Ticagrelor	1,312	ASA	Myocardial infarction	
33	Absorb BVS	UAP	First Diagonal	B2	2.5x10	2.5x10 (10)	2.5x12 (12)	No	ASA Clopidogrel	1,330	ASA	Myocardial infarction	
	XIENCE	Stabilised	Mid RCA	B2	3.5x15	No	3.5x10 (18)	3.5x18 (14)	ASA	0	ASA	Myocardial	
1	EES	STEMI	Distal RCA	С	2.5x25	2.5x20 (14)	2.75x28 (14)	2.5x15 (8)	Ticagrelor		Ticagrelor	infarction	
2	XIENCE EES	STEMI	Prox LAD	B2	3.0x28	3.0x20 (6)	3.0x38 (14)	3.5x15 (12)	ASA Ticagrelor	0	ASA Ticagrelor	Myocardial infarction	
3	XIENCE EES	STEMI	Prox LAD	B2	3.5x15	3.0x15 (16)	3.5x15 (12)	No	ASA Ticagrelor	1	ASA Ticagrelor	Myocardial infarction	Jailing stent (angio)
4	XIENCE EES	AP	Distal RcX	А	3.0x15	2.5x15 (10)	3.0x18 (12)	No	ASA Clopidogrel	3	ASA Clopidogrel	Myocardial infarction	ii
5	XIENCE EES	STEMI	Prox RCA	B2	3.0x15	3.0x15 (10)	3.0x12 (16)	No	ASA Prasugrel	511	ASA	Myocardial infarction	Malapposition prox stent (OCT)
6	XIENCE EES	STEMI	Mid LAD	B1	3.0x16	3.0x15 (6)	3.0x18 (12)	No	ASA Ticagrelor	1,222	ASA	ОНСА	
7	XIENCE EES	UAP	Distal RCA	B1	3.0x10	2.5x10 (13)	3.0x15 (14)	No	ASA Clopidogrel	1,391	ASA Clopidogrel	Myocardial infarction	
8	XIENCE EES	AP	Mid LAD	B1	3.0x15	2.5x12 (10)	30x18 (12)	No	ASA	1,472	ASA	Myocardial infarction	

Absorb BVS: Absorb bioresorbable vascular scaffold; XIENCE EES: XIENCE everolimus-eluting stent; AP: angina pectoris; ASA: aspirin; DAPT: dual antiplatelet therapy; HIV: human immunodeficiency virus; LAD: left anterior descending coronary artery; NSTEMI: non-ST-elevation myocardial infarction; OAC: oral anticoagulant medication; OCT: optical coherence tomography; OHCA: out-of-hospital cardiac arrest; OM: obtuse marginal; RCA: right coronary artery; RcX: ramus circumflex; STEMI: ST-elevation myocardial infarction; UAP: unstable angina pectoris