# **Short-term Dual Antiplatelet Therapy after Deployment of**

# **Bioabsorbable Polymer Everolimus-eluting Stent: SHARE trial**

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# 30 Protocol Summary

Title of Study	Short-term Dual Antiplatelet Therapy after Deployment of Bioabsorbable Polymer
	Everolimus-eluting Stent: SHARE trial
Study Center	Gangnam Severance Hospital, Yonsei University College of Medicine
Study Phase	Others
Objective	To compare the efficacy and safety of P2Y12 inhibitor monotherapy versus aspirin plus P2Y12 inhibitor following 3 months of DAPT in patients PCI with new generation EES.
Method	Prospective, open-label, multicenter, randomized trial
Sample size	A total of 1,452 subjects who received percutaneous coronary intervention using bioresorbable polymer everolimus-eluting stent (Competitive enrollment)
	Prospective, open-label, multicenter, randomized trial
	Patients who received bioresorbable polymer everolimus-eluting stent (the SYNERGY stent) implantation within 3 months
Study design	<ul> <li>Patients who meet the inclusion and exclusion criteria will be selected, informed consent will be obtained, and randomized 1:1 into two groups: those who will maintain DAPT for up to 1 year, and 3 months of DAPT followed by P2Y12 inhibitor monotherapy</li> </ul>
	• The primary outcome is a net adverse clinical event, defined as a composite of major adverse cardiac and cerebrovascular events and major bleeding between 3 and 12 months after the index procedure.
	Age ≥ 19 years
Inclusion criteria	Patients who received bioresorbable polymer everolimus-eluting stent (the SYNERGY stent) implantation within 3 months
	Patients who can understand the contents of the informed consent document and have voluntarily signed the informed consent form
	Primary outcome
Primary & secondary outcomes	The primary outcome is a net adverse clinical event (NACE), defined as a composite of major adverse cardiac and cerebrovascular events (MACCE) and major bleeding between 3 and 12 months after the index PCI. MACCE is defined as cardiac death, myocardial infarction (MI), stent thrombosis, stroke, or target lesion revascularization (TLR). Major bleeding is defined as Bleeding Academic Research

	Consortium (BARC) type 3 or 5 bleeding.
	Secondary outcome
	The major secondary outcomes are MACCE and major bleeding. Other secondary outcomes are cardiac death, MI, stent thrombosis, stroke, TLR, target vessel revascularization (TVR), and all-cause death.
	Safety Assessment
	Major bleeding
	Adverse drug reaction
	Cumulative incidence using Kaplan-Meier method
Statistical analyses	Log-rank test
	Cox proportional hazard model
Product name	Everolimus-eluting stent (Synergy®, Boston Scientific, Marlborough, MA, USA)
Drug name	Aspirin, clopidogrel, ticagrelor
Study duration	Expected duration for the completion of the study: Total 66 months (Enrollment 48 months, follow-up duration 12 months, data analyses 6 months)
	Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul
	2. Severance Cardiovascular Hospital, Yonsei University Health System
	3. Wonju Christian Hospital, Wonju
	4. Yongin Severance Hospital, Yongin
	5. Kyung Hee University Hospital at Gangdong, Seoul
<b>.</b>	6. NHIC Ilsan Hospital, Goyang
Participating sites	7. Seoul National University Bundang Hospital, Seongnam
	8. Hallym University Kangnam Sacred Heart Hospital, Seoul
	9. Myongji Hospital, Hanyang University College of Medicine, Goyang
	10. Chungang University Hospital, Seoul
	11. Dankook University Hospital, Cheonan
	12. Kangwon National University School of Medicine, Chuncheon

	13. Inha University Hospital, Incheon
	14. Yeungnam University Medical Center, Daegu
	15. Ewha Womans University Mokdong Hospital, Seoul
	16. Konkuk University Chungju Hospital, Chungju
	17. Soon Chun Hyang University Cheonan Hospital, Cheonan
	18. Kangbuk Samsung Hospital, Seoul
	19. Nowon Eulji Medical Center, Eulji University, Seoul
	20. Hallym University Chuncheon Sacred Heart Hospital, Chuncheon
	21. Ajou University Hospital, Suwon
	22. Gangneung Asan Hospital, University of Ulsan College of Medicine, Gangneung
	23. Kangdong Sacred Heart Hospital, Seoul
	24. Gachon Gil University Hospital, Incheon
	25. Hallym University Sacred Heart Hospital, Anyang
	26. Ilsan Paik Hospital, University of Inje College of Medicine, Seoul
	27. Chungnam National University Hospital, Daejeon
	28. Inje University Sanggye Paik Hospital, Seoul
	29. Gyeongsang National University Hospital, Jinju
	30. Ulsan University Hospital, Ulsan
	31. Daejeon Eulji Medical Center, Eulji University, Daejeon
Angiographic core lab	Gangnam Severance Hospital, Seoul

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## 1. Background

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Despite the wide use of drug-eluting stents (DES) in percutaneous coronary intervention 34 (PCI), there is still controversy over the optimal duration of dual antiplatelet therapy (DAPT) 35 with aspirin and P2Y12 inhibitors after PCI. The current guidelines recommend DAPT for at 36 least 6 to 12 months after DES implantation. In patients with stable coronary artery disease 37 (CAD), DAPT for at least 6 months is recommended based on the results of recent 38 randomized trials<sup>2-6</sup> that showed no increase in cardiovascular events, including stent 39 thrombosis, after 3 to 6 months of DAPT compared with 12 months of DAPT, and in patients 40 with ACS, DAPT for at least 12 months. However, the current guidelines are mostly based on 41 the results from clinical trials using first- or second-generation DES, and further studies are 42 needed because they do not include studies using new generations of DES with bioabsorbable 43 polymers. In addition, clopidogrel was mainly used as a P2Y12 inhibitor in these trials, but 44 the use of a new P2Y12 inhibitor such as ticagrelor in patients with ACS has been reported to 45 reduce major cardiovascular events (MACE) without increasing major bleeding compared to 46 clopidogrel. Therefore, the optimal duration and regimen of DAPT after PCI are still being 47 debated. 48 49 On the other hand, few studies have been performed on which drug should be maintained as a single antiplatelet therapy after completion of DAPT. Currently, guidelines recommend 50 aspirin monotherapy as maintenance therapy after DAPT. However, strategies to discontinue 51 aspirin after a brief period of DAPT and continue P2Y12 inhibitor monotherapy have 52 recently emerged as an attractive alternative. In CAPRIE Study, clopidogrel has shown a 53 superior effect on preventing cardiovascular events while reducing the frequency of 54 gastrointestinal bleeding compared to aspirin.<sup>8</sup> However, no randomized study has compared 55 aspirin and P2Y12 inhibitors as a single antiplatelet therapy. According to a recent 56 retrospective observational study, the group using clopidogrel as a single maintenance 57

58	therapy after DAPT reduced the incidence of ischemic events without increasing bleeding
59	compared to the aspirin monotherapy group.9
60	A new generation of everolimus-eluting stent (EES), the SYNERGY stent (Boston Scientific,
61	Marlborough, MA, USA) is a bioabsorbable polymer (BP) EES designed to promote rapid
62	reendothelialization by combining a thin-strut (74-81 µm) platinum-chromium platform with
63	an abluminally coated ultrathin (4 µm) bioabsorbable polymer. 10,11 At around 90 days, drug
64	release was completed and followed by complete bioabsorption of polymer. Therefore, these
65	features may shorten the duration of DAPT compared with the older generation of DES.
66	Therefore, the Short-term Dual Antiplatelet Therapy After Deployment of Bioabsorbable
67	Polymer Everolimus-eluting Stent (SHARE) trial will test the noninferiority of P2Y12
68	inhibitor monotherapy to DAPT in patients undergoing PCI with the SYNERGY stent and
69	receiving 3 months of DAPT.
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## 73 **2. Study Objectives**

- 74 To compare the efficacy and safety of P2Y12 inhibitor monotherapy versus aspirin plus
- 75 P2Y12 inhibitor following 3 months of DAPT in patients PCI with new generation EES.

# 76 **2.1 Primary outcome**

- 77 The primary outcome is a net adverse clinical event (NACE), defined as a composite of major
- adverse cardiac and cerebrovascular events (MACCE) and major bleeding between 3 and 12
- months after the index PCI. MACCE is defined as cardiac death, myocardial infarction (MI),
- stent thrombosis, stroke, or target lesion revascularization (TLR). Major bleeding is defined
- as Bleeding Academic Research Consortium (BARC) type 3 or 5 bleeding.

## 82 **2.2 Secondary outcome**

- The major secondary outcomes are MACCE and major bleeding. Other secondary outcomes
- are cardiac death, MI, stent thrombosis, stroke, TLR, target vessel revascularization (TVR),
- and all-cause death.

## 86 2.3 Safety Assessment

- 87 Major bleeding
- 88 Adverse drug reaction

## 3. Study Design

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- 3.1. Patient Enrollment and Informed Consent
- Patients undergoing PCI and stent implantation for CAD are eligible to participate in this study. Patients who meet all inclusion criteria and do not meet any exclusion criteria will be considered for inclusion. Written informed consent will be obtained after the procedure and prior to drug assignment. The Principal Investigator (or a physician authorized by the Principal Investigator) will explain the study sufficiently for the subject to understand the study in an independent location and obtain voluntary written informed consent. Even after participating in the study, it will be confirmed whether or not to continue to agree to the

#### 3.1.1. Inclusion Criteria

101 • Age  $\geq$  19 years

research progress.

- Patients who received bioresorbable polymer everolimus-eluting stent (the SYNERGY stent) implantation within 3 months
- Patients who can understand the contents of the informed consent document and have voluntarily signed the informed consent form

### 3.1.2. Exclusion Criteria

- 107 Age ≥ 86 years
- Hemodynamically unstable patients
- History of severe hypersensitivity to aspirin, clopidogrel, ticagrelor, everolimus, or
   contrast media
- Patients at high risk of bleeding, anemia, or thrombocytopenia
- Patients requiring oral anticoagulation
- Pregnancy or women of childbearing potential
- Life expectancy less than 1 year

- Patients receiving strong CYP3A4 inhibitors (e.g., ketoconazole, clarithromycin, nefazodone, ritonavir, atazanavir)
- Patients with a history of intracranial hemorrhage.
- Patients with moderate to severe hepatic impairment.
- Patients unable to take aspirin, clopidogrel, or ticagrelor due to contraindications of each agent

## Coronary angiographic exclusion criteria

- Patients who have undergone coronary stent implantation within 1 year
- Patients with left main disease requiring intervention
- Patients with chronic total occlusion lesion requiring intervention
- Patients with in-stent restenosis requiring intervention
  - Patients with bifurcation lesions requiring stenting in the side branches
- Patients with lesions requiring overlap of 3 or more stents

## 3.2. Sample Size Calculation and Statistical Analyses

## 3.2.1. Sample Size Calculation

The annual event rate of the primary endpoint is expected to be around 5% based on the 130 131 results from several randomized trials that compared short-term DAPT versus 12-month DAPT after coronary PCI using DES implantation <sup>2-5</sup>. A noninferiority margin of 3 132 133 percentage points is chosen with a consideration that this is not clinically different between the 2 groups in terms of primary endpoint. The number of subjects is determined by 134 assuming that the experimental group is not inferior when the upper limit of 95% 135 confidence interval of the difference in the event rate between the 2 groups do not exceed 136 the event rate for the control group. When the significance level is 5% and the power is 137 80%, a total of 1,306 subjects, or 653 subjects per group are required. Assuming a 10% 138

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dropout rate, a total of 1,452 subjects, or 726 subjects per group, are required to prove our hypothesis.

## 3.2.2. Statistical Analyses

Analyze categorical variables with the  $\chi 2$  test or Fisher's exact test, and continuous variables with the student t-test. Evaluate the cumulative incidence of events at 12-month follow-up. Kaplan-Meier will be used to analyze overall and between-group survival, and comparisons between groups will be made using the log-rank test. If necessary, hazard ratios between groups will be presented using the Cox proportional hazard model. A P-value < 0.05 is considered statistically significant.

The primary analysis will be performed in the randomized group regardless of the actual patient's treatment status but excluding patients with a major cardiac and cerebrovascular event or major bleeding within 3 months of index procedure (modified intention-to-treatment analysis). Perform a comparative analysis of the two arms with stratification factors (fixed effect and/or random effect model) and subgroup analysis. In case of missing, patients are excluded from analyses involving the missing variable but included in analyses not involving the missing variable. Additional analysis can be performed (per-protocol analysis or astreated analysis).

# 4. Study Procedure

#### 4.1. Enrollment and Randomization

Patients presenting with CAD and undergoing PCI with a new generation EES (Synergy®) are eligible for this study. Patients who meet the inclusion and exclusion criteria will be selected, informed consent will be obtained, and randomized 1:1 into two groups: those who will maintain DAPT for up to 1 year, and 3 months of DAPT followed by P2Y12 inhibitor monotherapy. Patients will be randomized at enrollment by the electronic case record file (e-CRF) computerized system and obtaining informed consent and randomization will be permitted from the time of the PCI until the first follow-up, 3 months after the procedure. As a P2Y12 inhibitor, Clopidogrel will be used as a P2Y12 inhibitor in patients with SCAD. For patients with ACS, ticagrelor will be recommended as a P2Y12 inhibitor, but clopidogrel will be also allowed according to the physician's discretion. Randomization will be stratified by site and clinical diagnosis (stable CAD or ACS). Baseline clinical status, angiographic characteristics, and blood test findings will be assessed at randomization. Informed consent will be obtained from all subjects.

## 4.2. Study Drug and Study Device

Drug or Device		Company
Clopidogrel	Tablet, 75mg, once a day	Unrestricted
Ticagrelor (Brilinta <sup>®</sup> )	Tablet, 90mg, twice a day	ASTRAZENECA
Synergy <sup>®</sup>	Everolimus-eluting bioabsorbable polymer stent	Boston Scientific

## 4.3. Schedule of Measurements

Clinical follow-up will be performed at 3 ( $\pm$  1), 6 ( $\pm$  1), and 12 ( $\pm$  1) months after the index PCI.

#### Table 1. Schedule of Measurements

	Screening	$3M^9$	6M <sup>9</sup>	12M <sup>9</sup>
	&	3 Months	6 Months	12 Months
	Baseline	±30 days	±30 days	±30 days
Informed consent	X <sup>1</sup>			
Inclusion/exclusion criteria	X			
Medical history	$X^2$			
Randomization	X			
Antiplatelet therapy	X	X	X	X
Check compliance		X	X	X
Adverse event <sup>4</sup>		X	X	X
Serious adverse event		X	X	X
12 lead ECG	X <sup>5</sup>			
Coronary angiography	X			
CBC	X	$X^8$		
Creatinine, BUN,	X	$X^8$		
hs-CRP	X	$X^8$		
Total cholesterol, TG, HDL cholesterol, LDL cholesterol	X	$X^8$		
AST, ALT		$X^8$		
Fasting glucose level	$X^6$	X <sup>8</sup>		
HbA1c	X			
Pregnancy test, Urine (if applicable)	X			
CPK, CK-MB, Troponin I, Troponin T	$X^7$			
Echocardiography	X			

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#### 4.4. Guidelines for Standard Care

Other antiplatelet or anticoagulant agents: The use of prasugrel or cilostazol is not allowed.

<sup>181</sup> The informed consent should be signed within 3 months after the coronary intervention.

Assessment of age, sex, risk factors, clinical diagnosis, angina status, cardiac history, cardiac and
 cerebrovascular event, and bleeding

<sup>&</sup>lt;sup>3</sup> For patients undergoing stent implantation

<sup>&</sup>lt;sup>4</sup> Assessment of cardiac and cerebrovascular event and bleeding, especially

ECG at follow up visits will only be obtained when clinically indicated such as recurrent chest pain,
 ischemia, or significant arrhythmias, heart failure or other signs or symptoms of clinical instability.

<sup>188 &</sup>lt;sup>6</sup> It may be done later, before discharge when the patient is in a fasting state

<sup>&</sup>lt;sup>7</sup> Optional in selected centers and if baseline lab is done, enzymes must be followed every 8-hours for 24 hours post-index procedure

These tests are subject to change at the discretion of the attending physician, and the results of other tests, if any, are available at that time.

<sup>&</sup>lt;sup>9</sup> If the patient is unable to attend within the visit window specified in the protocol, a telephone visit may be conducted to confirm adverse events, serious adverse events, and medication status.

198	Lipid lowering agents: Statins are recommended in all patients unless contraindicated.
199	Fibrates, omega-3 polyunsaturated fatty acids or nicotinic acids may be used when other
200	lipid profiles are abnormal.
201	4.5. Definition of adverse event/serious adverse event/unanticipated adverse device
202	effect
203	• Adverse event
204	An adverse event is defined as an undesirable, unintended condition that occurs in a subject
205	during a clinical trial and is not necessarily causally related to the study treatment.
206	Therefore, an adverse event is any undesirable, unintended condition (e.g., abnormal test
207	result) or illness that occurs during the study that is temporally related to the study
208	procedure, regardless of whether it is caused by the study device or procedure.
209	• Serious adverse event (SAE)
210	An adverse event caused by a medical device used in a clinical trial is considered serious if
211	it meets one or more of the following criteria
212	- Causes death
213	- Is life-threatening
214	For example, a clinician determines that there is a risk of death immediately following the
215	occurrence of the adverse event (does not include a serious form of an adverse event that
216	occurred in the past that could have resulted in death).
217	- Causes persistent or meaningful disabilities or diminished function (subject's physical
218	function/structure, physical activity, and quality of life).
219	- Requires hospitalization or an extended period of hospitalization
220	- Causes a congenital malformation or abnormality

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- A significant medical event that is classified as a serious adverse event, based on medical

judgment, that does not result in death, is not life-threatening, or requires hospitalization. A

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medical event that threatens the safety of the subject and/or requires intervention to prevent an adverse event as defined above and/or requires immediate medical or surgical intervention to prevent permanent body function/structure damage or to mitigate unforeseen damage.

Allergic bronchospasm, blood disorders, or seizures that require intensive care in the emergency room or at home without causing hospitalization or drug dependence or abuse.

There is a clear distinction between severe and serious adverse events. The difference between severe and serious adverse reactions is distinguishable. A severe adverse event is not always a serious adverse event, and a serious adverse event is not always severe. The term "severe" is used to describe the severity of a particular adverse event (mild, moderate, or severe). However, there are cases where the adverse event itself is mild (e.g., a severe headache). This is different from a "serious adverse event", which is an adverse event that causes life-threatening damage to a patient's life or body functions.

- Notes: An adverse event involving an efficacy endpoint is considered a serious adverse event.
- 238 (Unplanned revascularization events are considered SAEs).
  - Unanticipated adverse device effect

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- An unanticipated adverse device effect is a serious adverse event associated with a medical device that adversely affects the health or safety of a subject or is fatal or results in death.
- Its nature, severity, or occurrence was not identified in a previous protocol or clinical trial

  (including a supplemental protocol or clinical trial)
- Defined as an unexpected serious adverse event caused by an investigational medical device that is relevant to the rights, safety, or welfare of the subject.
- Note: "effect" implies a causal relationship to the medical device.

## 4.6 Responding to adverse events and discontinuing treatment

In the event of a SAE, such as stent thrombosis or major bleeding, appropriate action should be taken based on symptoms. Subjects should be questioned in detail about SAE-related symptoms at outpatient visits in accordance with the above measurement schedule. If myocardial infarction due to stent thrombus is suspected, emergency coronary angiography should be performed, medications should be adjusted, and safety reporting should be expedited. In the event of major bleeding, antiplatelet therapy should be discontinued, and the patient should be treated according to their condition. In addition, if adverse drug reactions occur, such as dyspnea, hypotension, or hyperuricemia, consult with the patient to determine whether to continue treatment.

## 4.7. Patient Discontinuation (Withdrawal Criteria)

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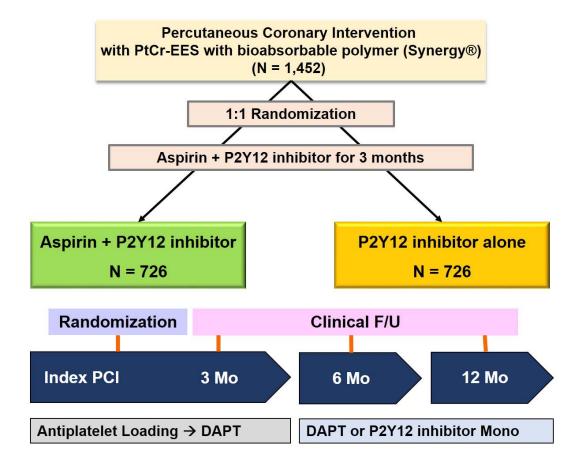
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- Subject or representative withdraws consent
- The subject cannot be followed up
- The researcher determines that it is not feasible to continue for any other reason.
- 262 Process
- Record and retain the reason for discontinuation or withdrawal and the data related to the
- study up to that point.
- Subjects who drop out will be included in the statistical analysis unless there is a valid
- reason.

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# **5. Study Algorithm**



## 6. Confidentiality

All data will be collected in an e-CRF, which will be inaccessible except to authorized personnel. Subject identifiers will be coded and identified by a unique study number and will not contain any identifiable personal information about the subjects. Study-related documents will be stored in a separate, locked location in the lab, and documents stored on computers will also be password protected to limit access by outsiders. The collected information will be kept for the duration of the study and for three years after the end of the study and will be properly managed and disposed of in accordance with the Personal Information Protection Act. However, the storage period may be extended if the principal investigator deems it necessary.

## 7. Data Safety Monitoring Board

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- The Data Safety Monitoring Board (DSMB) will be composed of general and interventional cardiologists and a biostatistician. The names of the actual members will not be published but will be made available to the governing body upon request. The DSMB will function in accordance with applicable administrative guidelines.
- Members of the committee will not participate in the trial and will be independent.
- The DSMB will review safety data from clinical trials and make recommendations based on safety analyses, including unexpected adverse device effect (UADEs), serious adverse events (SAEs), protocol biases, device failures, and 30-day observation reports.
  - The frequency of DSMB meetings will be determined prior to study initiation. In addition, a Data Safety Review Committee meeting will be convened at any time if there is reason to suspect safety. This committee is responsible for advising on any safety or complaints throughout the trial and may recommend to the Steering Committee that the trial be adjusted or stopped. However, the Steering Committee has the final decision authority on all study manipulations.
    - All cumulative safety results will be reported to the DSMB and will be reviewed during the follow-up and recruitment periods to ensure patient safety. The committee will be allowed to make every effort to conduct an unbiased review of patient safety information.
- All DSMB reports will be made publicly available upon request to appropriate organizations but will otherwise be strictly confidential.
- A draft Data Safety Review Committee charter will be prepared prior to the Data Safety

  Review Committee's first data review. The DSMB will develop agreement on the

  definitions used to assess the validity of all clinical trials and the decision to proceed. All

  DSMB reports will be strictly confidential but may be made public upon request by

  regulatory authorities.

311	7.1. Data safety monitoring
312	The Principal Investigator will be responsible for the safety of human subjects. The DSMB
313	will have a detailed role in reviewing the safety of subjects, study progress, procedures to
314	maintain valid data, and the quality of data collection, processing, and analysis.
315	7.2. Frequency of Data Safety Monitoring
316	The Principal Investigator must report any serious adverse events to the DSMB as soon as
317	possible and within 24 hours. The DSMB will meet regularly once a year to assess study
318	progress, data management, and safety. The DSMB may convene at any time if a
319	significant issue related to subject safety arises.
320	7.3. Content of Data Safety Monitoring Report
321	The data safety review report shall include information on human subjects, safety
322	information, and the quality of the research.
323	7.4 Informed Consent
324	The investigator shall provide and obtain the signature of an approved informed consent
325	form to each subject in each prospective clinical trial prior to recruitment. Variations may
326	be made to suit the circumstances of each clinical trial site.

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# 8. Reporting of Adverse Events

The Principal Investigator will evaluate all adverse events for severity, seriousness, and causality to the study drug and study procedures. All adverse events should be documented on the appropriate page of the clinical case record, regardless of their association with the study drug or severity. SAEs corresponding to the efficacy endpoints should be reported in accordance with the reporting criteria of each institution's Clinical Research Protection Center.

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