

Research Conducted by the Japan Institute of Sports Sciences (JISS) Using an Opt-Out Consent Process

Study Title	Analysis of Start Times in Para Alpine Skiing
Approval Number	2026-010
Study Start Date	6/29/2026
Study End Date	3/31/2027
Purpose of the Study	This study aims to quantify start-time differences among sit-ski para alpine skiers using World Cup video analysis and to clarify how the start phase affects race performance.
Study Participants	Participants were 11 male and 1 female sit-ski category athletes who competed in the Para Alpine Skiing Sapporo World Cup, held from February 10 to 15, 2024, including one GS race and three SL races.
Study Overview	This study targets athletes in the sit-ski category who competed in the Para Alpine Skiing Sapporo World Cup held from February 10 to 15, 2024. For data collection, the start phase of each race, from immediately before the start to passing the first gate, was video-recorded with permission from the event organizer. For data analysis, the recorded videos will be used to count the number of frames from the moment the start gate opened until the athlete passed the first gate. Start times will then be calculated based on the frame rate of the videos. Time analysis using video footage has already been applied in several sports, including swimming. Therefore, this method is considered scientifically reasonable because it enables objective evaluation of time.
Types of Information Used in the Study	Age, sex, event name, classification category, race time, start time, and race video.
Funding Source(s)	Functional Development Project for Resilient Athlete Support ※commissioned by Japan Sports Agency
Conflicts of Interest and Personal Financial Interests Related to the Study	There are no conflicts of interest or personal financial benefits related to this study.
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