

# Zimmer® Natural Nail® (ZNN) Bactiguard Tibia Post-Market Clinical Follow-up Study

NCT05022485

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**Status** RECRUITING  
**Sponsor** Zimmer Biomet  
**Enrollment** 500 participants

## Key Eligibility Criteria

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### Inclusion (10)

- Patient must be 18 or older.
- Patient has signed IRB/EC-approved informed consent (if applicable for retrospective controls, based on local requirements).
- Patient suffered primary tibia fracture (monolateral or bilateral) at high risk of infection, eligible for fixation by intramedullary (IM) nailing (standard or suprapatellar approach) and meets at least one of the following conditions:
- Open fractures (incl. gunshot fractures): Gustilo Type I, II, III A and III B.
- Delayed treatment (initial treatment by external fixation due to swelling/ high energy trauma followed by definitive treatment by intramedullary nail).

... and 5 more (see full listing online)

### Exclusion (28)

- Patient is unwilling or unable to give consent.
- Patient is not expected to survive follow-up schedule.
- Patient is anticipated to be non-compliant to the study protocol.
- Patient has a mental or neurological condition or alcohol/drug addiction that will not allow for proper informed consent and/or participation in follow-up program.
- Patient is a prisoner.

... and 23 more (see full listing online)

## Locations (16 total)

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Tirolkliniken Innsbruck, Innsbruck, Austria  
Hôpital Ambroise-Paré, Boulogne-Billancourt, France  
Hôpitaux Universitaires de Marseille Nord, Marseille, France  
... and 13 more locations

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<https://clinicaltrials.gov/study/NCT05022485>

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