

Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

20-test

Inclusion Criteria

Participant younger than 18 years at presentation

☐ Yes

☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☐ Yes

☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☐ Yes

☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes

☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes

☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes

☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes

☐ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes

☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
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Demographics

Sex	<input type="radio"/> Male <input type="radio"/> Female
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Patient date of birth	<input type="text"/>
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Date of injury	<input type="text"/>
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Age at time of injury	<input type="text"/>
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Height	<input type="text"/> ((cm))
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Weight	<input type="text"/> ((kg))
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BMI	-10
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Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)

- ☐ MVA/MCA/ATV
☐ Auto-ped
☐ Sports
☐ Fall from height
☒ Other:

Other:

Date of surgery

Age at time of surgery

Time from injury

(days)

Surgical technique

- ☐ Open reduction
☐ Closed reduction

Nail technique

- ☐ Suprapatellar
☐ Infrapatellar
☐ Extraarticular lateral
☐ Other:

Nail Diameter

(mm)

Nail Length

(cm)

Nail Manufacturer

Nail location

- ☐ Above physis
☐ At physis
☐ Below physis

Fracture location

- ☐ Distal 1/3 of shaft
☐ Middle 1/3 of shaft
☐ Proximal 1/3 of shaft

Fracture characteristics

- ☐ Transverse
☐ Spiral
☐ Oblique
☐ Comminuted

Fracture open ☐ Yes
☐ No

Fibula fracture ☐ Yes
☐ No

OTA Classification

[Attachment: "ota.jpg"]

Use the link provided above to identify the OTA Classification

☐ 42A
☐ 42A1
☐ 42A2
☐ 42A3
☐ 42B
☐ 42B2
☐ 42B2
☐ 42B3
☐ 42C
☐ 42C2
☐ 42C3

Associated injuries ☐ Ligamentous knee
☐ Fracture
☐ Head injury
☐ Other:
☐ None

Date of x-ray depicting radiographic healing

Time for radiographic healing

(weeks)

Post-op immobilization ☐ Cast/splint
☐ Boot
☐ Other:

Date patient regained full weight bearing without assistance

Time to full weight bearing without assistance

(weeks)

Complications? ☐ Yes
☐ No

Return to OR for HWR ☐ Yes
☐ No

Full return to normal activities and sports? ☐ Yes
☐ No

Last date of follow-up after injury

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☐ Yes
☐ No

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☐ Yes
☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

Did patient reach skeletal maturity by the last postoperative visit?

☐ Yes
☐ No

Defined by closure of proximal tibia physis

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☐ Yes
☐ No

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☐ Yes
☐ No

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

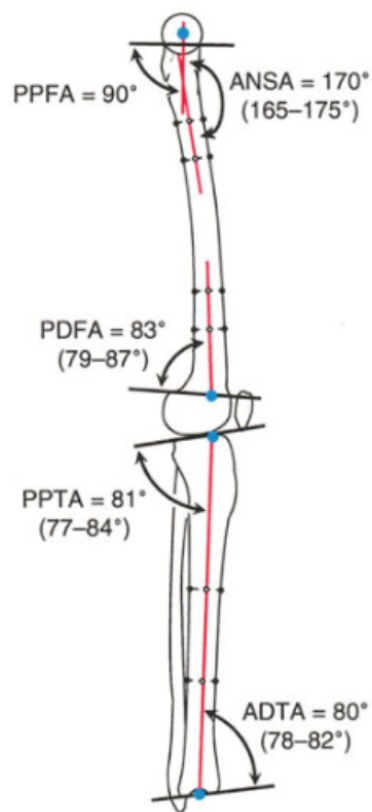
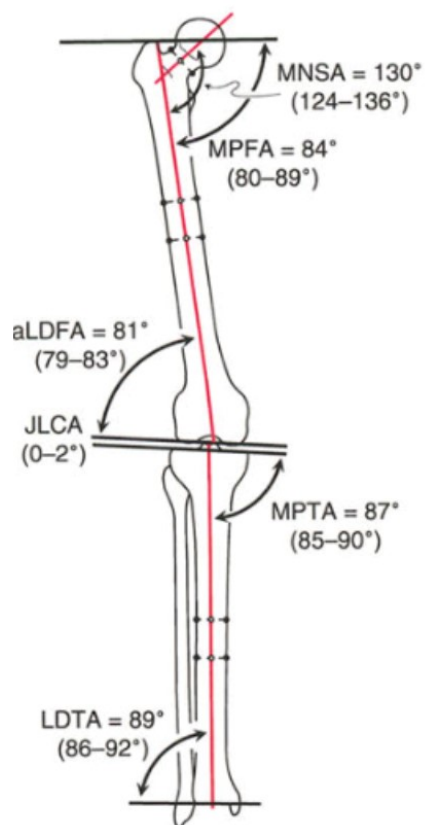
☐ Yes
☐ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes
☐ No



Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

20-test2

Inclusion Criteria

Participant younger than 18 years at presentation

☒ Yes

☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☒ Yes

☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☒ Yes

☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes

☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes

☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes

☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes

☐ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes

☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
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Demographics

Sex	<input type="radio"/> Male <input checked="" type="radio"/> Female
Menarche	<input type="radio"/> Pre-menarchal <input type="radio"/> Post-menarchal <input checked="" type="radio"/> Not Recorded
Patient date of birth	09-26-2003
Date of injury	12-05-2017
Age at time of injury	14
Height	163 ((cm))
Weight	57.13 ((kg))
BMI	21.5

Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)

- ☐ MVA/MCA/ATV
☒ Auto-ped
☐ Sports
☐ Fall from height
☐ Other:

Date of surgery

12-10-2017

Age at time of surgery

14

Time from injury

5
(days)

Surgical technique

- ☐ Open reduction
☒ Closed reduction

Nail technique

- ☐ Suprapatellar
☐ Infrapatellar
☐ Extraarticular lateral
☐ Other:

Nail Diameter

(mm)

Nail Length

(cm)

Nail Manufacturer

Nail location

- ☐ Above physis
☐ At physis
☐ Below physis

Fracture location

- ☐ Distal 1/3 of shaft
☐ Middle 1/3 of shaft
☐ Proximal 1/3 of shaft

Fracture characteristics

- ☐ Transverse
☐ Spiral
☐ Oblique
☐ Comminuted

Fracture open

- ☐ Yes
☒ No

Fibula fracture

- ☒ Yes
☐ No

Location

- ☒ Distal
☐ Middle
☐ Proximal

OTA Classification

[Attachment: "ota.jpg"]

*Use the link provided above to identify the OTA
Classification*

- ☐ 42A
☐ 42A1
☐ 42A2
☐ 42A3
☐ 42B
☐ 42B2
☐ 42B2
☐ 42B3
☐ 42C
☐ 42C2
☐ 42C3

Associated injuries

- ☐ Ligamentous knee
☐ Fracture
☐ Head injury
☐ Other:
☐ None

Date of x-ray depicting radiographic healing

Time for radiographic healing

(weeks)

Post-op immobilization

- ☐ Cast/splint
☐ Boot
☐ Other:

Date patient regained full weight bearing without assistance

Time to full weight bearing without assistance

(weeks)

Complications?

- ☒ Yes
☐ No

Complications

- ☐ Infection
☐ VTE (Venous thrombosis)
☐ Nerve or vessel injury
☐ Physeal arrest
☐ Delayed/nonunion
☐ Unplanned return to OR (i.e. other than HWR)
☐ Ipsilateral extremity injury
☐ Other:

Return to OR for HWR

- ☐ Yes
☐ No

Full return to normal activities and sports?

☐ Yes

☐ No

Last date of follow-up after injury

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☒ Yes
☐ No

Bone age (hand)

If so then calculate hand bone age using Greulich/Pyle

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☒ Yes
☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

Did patient reach skeletal maturity by the last postoperative visit?

☒ Yes
☐ No

Defined by closure of proximal tibia physis

Date skeletal maturity was observed

07-02-2024

How many months between injury and skeletal maturity?

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☒ Yes
☐ No

Date of First Post-OP AP X-ray

Date of First Post-OP LAT X-ray

MPTA

LDTA

PPTA

ADTA

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☒ Yes
☐ No

Date of AP X-ray

Date of LAT X-ray

MPTA

LDTA

PPTA

ADTA

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

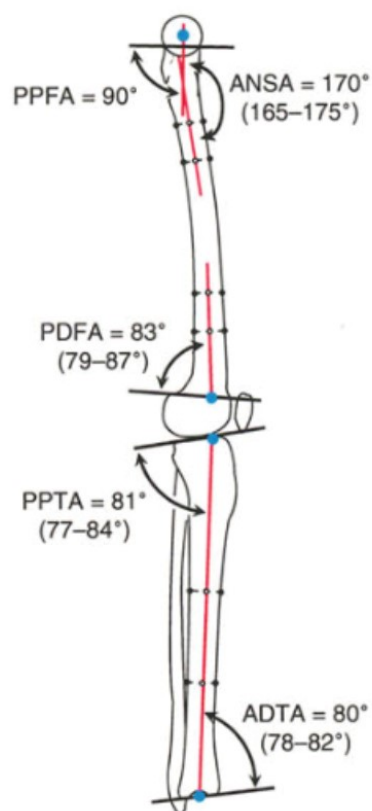
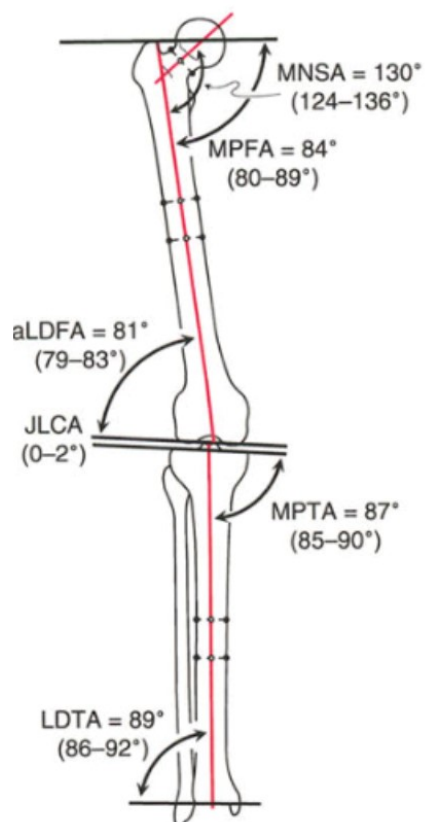
☐ Yes
☒ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes
☒ No



Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

35-001

Inclusion Criteria

Participant younger than 18 years at presentation

☒ Yes

☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☒ Yes

☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☒ Yes

☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes

☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes

☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes

☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes

☐ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes

☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
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Demographics

Sex	<input type="radio"/> Male <input checked="" type="radio"/> Female
Menarche	<input type="radio"/> Pre-menarchal <input type="radio"/> Post-menarchal <input checked="" type="radio"/> Not Recorded
Patient date of birth	08-22-2005
Date of injury	11-06-2020
Age at time of injury	15
Height	159 ((cm))
Weight	54 ((kg))
BMI	21.4

Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)

- ☐ MVA/MCA/ATV
☐ Auto-ped
☐ Sports
☐ Fall from height
☒ Other:

Other:

d

Date of surgery

11-07-2020

Age at time of surgery

15

Time from injury

1
(days)

Surgical technique

- ☐ Open reduction
☒ Closed reduction

Nail technique

- ☐ Suprapatellar
☒ Infrapatellar
☐ Extraarticular lateral
☐ Other:

Nail Diameter

(mm)

Nail Length

(cm)

Nail Manufacturer

Nail location

- ☒ Above physis
☐ At physis
☐ Below physis

Do interlocking screws cross physis?

- ☐ Yes
☐ No
☐ Unable to determine

Fracture location

- ☐ Distal 1/3 of shaft
☒ Middle 1/3 of shaft
☐ Proximal 1/3 of shaft

Fracture characteristics

- ☐ Transverse
☒ Spiral
☐ Oblique
☐ Comminuted

Fracture open	<input checked="" type="radio"/> Yes <input type="radio"/> No
Fibula fracture	<input checked="" type="radio"/> Yes <input type="radio"/> No
Location	<input type="radio"/> Distal <input type="radio"/> Middle <input checked="" type="radio"/> Proximal
OTA Classification	
[Attachment: "ota.jpg"]	
Use the link provided above to identify the OTA Classification	<input type="radio"/> 42A <input type="radio"/> 42A1 <input type="radio"/> 42A2 <input type="radio"/> 42A3 <input type="radio"/> 42B <input type="radio"/> 42B2 <input type="radio"/> 42B2 <input type="radio"/> 42B3 <input type="radio"/> 42C <input type="radio"/> 42C2 <input type="radio"/> 42C3
Associated injuries	<input type="checkbox"/> Ligamentous knee <input type="checkbox"/> Fracture <input type="checkbox"/> Head injury <input type="checkbox"/> Other: <input checked="" type="checkbox"/> None
Date of x-ray depicting radiographic healing	01-05-2021
Time for radiographic healing	8.571428571428571 (weeks)
Post-op immobilization	<input type="checkbox"/> Cast/splint <input checked="" type="checkbox"/> Boot <input type="checkbox"/> Other:
For how long in boot?	12 (weeks)
Date patient regained full weight bearing without assistance	03-09-2021
Time to full weight bearing without assistance	17.428571428571427 (weeks)
Complications?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Return to OR for HWR	<input checked="" type="radio"/> Yes <input type="radio"/> No

Date of Surgery	03-15-2021
Full return to normal activities and sports?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Were activities and sports at the same level as before the injury?	<input type="radio"/> Yes <input type="radio"/> No
Last date of follow-up after injury	04-06-2021

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☒ Yes
☐ No

Bone age (hand)

13.81

If so then calculate hand bone age using Greulich/Pyle

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☒ Yes
☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

13.81

Did patient reach skeletal maturity by the last postoperative visit?

☐ Yes
☒ No

Defined by closure of proximal tibia physis

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☐ Yes
☐ No

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☐ Yes
☐ No

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

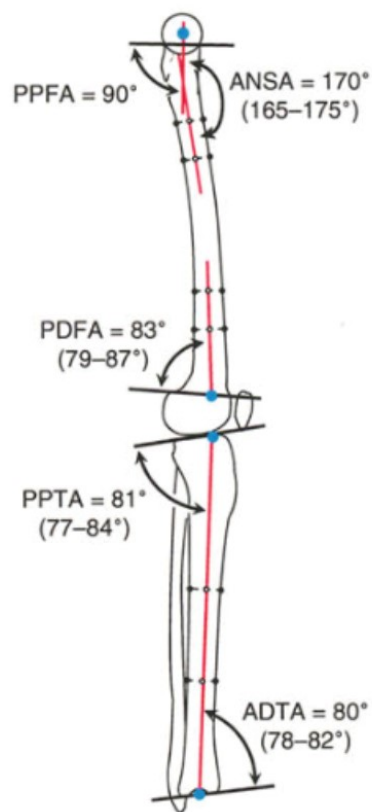
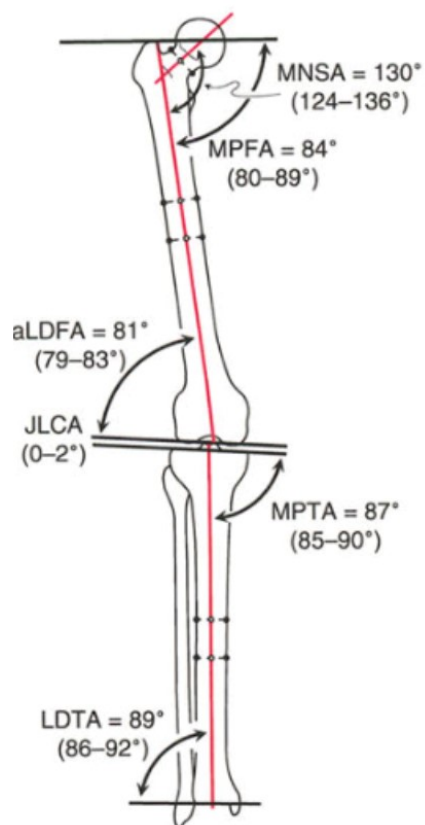
☐ Yes
☐ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes
☐ No



Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

35-002

Inclusion Criteria

Participant younger than 18 years at presentation

☒ Yes
☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☒ Yes
☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☒ Yes
☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes
☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes
☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes
☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes
☐ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes
☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
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Demographics

Sex	<input type="radio"/> Male <input checked="" type="radio"/> Female
Menarche	<input type="radio"/> Pre-menarchal <input type="radio"/> Post-menarchal <input checked="" type="radio"/> Not Recorded
Patient date of birth	08-20-2003
Date of injury	05-25-2019
Age at time of injury	15
Height	150 ((cm))
Weight	48 ((kg))
BMI	21.3

Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)

- ☐ MVA/MCA/ATV
☐ Auto-ped
☐ Sports
☒ Fall from height
☐ Other:

Date of surgery

05-26-2019

Age at time of surgery

15

Time from injury

1
(days)

Surgical technique

- ☐ Open reduction
☒ Closed reduction

Nail technique

- ☐ Suprapatellar
☐ Infrapatellar
☐ Extraarticular lateral
☐ Other:

Nail Diameter

(mm)

Nail Length

(cm)

Nail Manufacturer

Nail location

- ☐ Above physis
☐ At physis
☐ Below physis

Fracture location

- ☐ Distal 1/3 of shaft
☐ Middle 1/3 of shaft
☐ Proximal 1/3 of shaft

Fracture characteristics

- ☐ Transverse
☐ Spiral
☐ Oblique
☐ Comminuted

Fracture open

- ☐ Yes
☐ No

Fibula fracture

- ☐ Yes
☐ No

OTA Classification

[Attachment: "ota.jpg"]

Use the link provided above to identify the OTA Classification

- ☐ 42A
☐ 42A1
☐ 42A2
☐ 42A3
☐ 42B
☐ 42B2
☐ 42B2
☐ 42B3
☐ 42C
☐ 42C2
☐ 42C3

Associated injuries

- ☐ Ligamentous knee
☒ Fracture
☐ Head injury
☐ Other:
☐ None

Date of x-ray depicting radiographic healing

07-23-2019

Time for radiographic healing8.428571428571429
(weeks)

Post-op immobilization

- ☒ Cast/splint
☐ Boot
☐ Other:

For how long in cast/splint?8
(weeks)

Date patient regained full weight bearing without assistance

07-23-2019

Time to full weight bearing without assistance8.285714285714286
(weeks)

Complications?

- ☐ Yes
☒ No

Return to OR for HWR

- ☐ Yes
☒ No

Full return to normal activities and sports?

- ☒ Yes
☐ No

Were activities and sports at the same level as before the injury?

- ☐ Yes
☐ No

Last date of follow-up after injury

10-01-2019

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☐ Yes
☒ No

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☒ Yes
☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

14.17

Did patient reach skeletal maturity by the last postoperative visit?

☐ Yes
☒ No

Defined by closure of proximal tibia physis

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☐ Yes
☐ No

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☐ Yes
☐ No

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

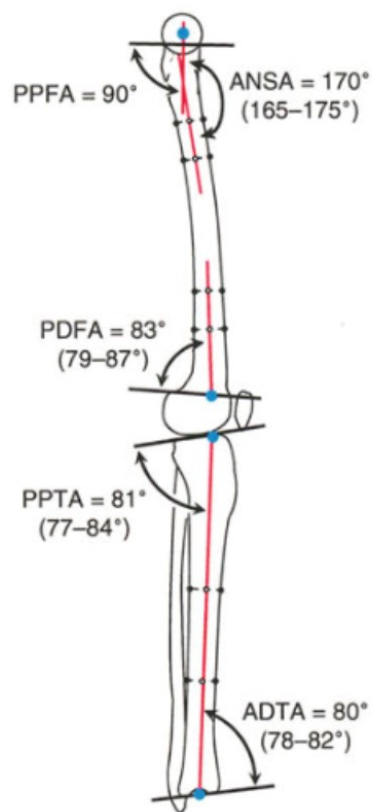
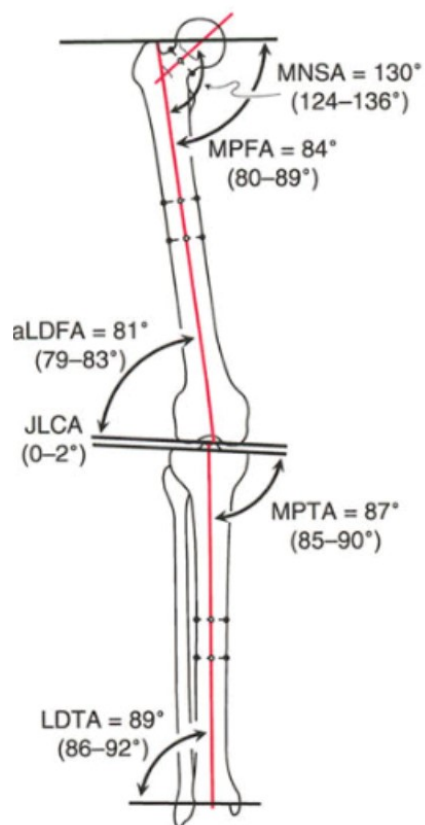
☐ Yes
☐ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes
☐ No



Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

35-003

Inclusion Criteria

Participant younger than 18 years at presentation

☒ Yes
☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☒ Yes
☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☒ Yes
☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes
☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes
☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes
☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes
☐ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes
☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
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Demographics

Sex	<input type="radio"/> Male <input checked="" type="radio"/> Female
Menarche	<input type="radio"/> Pre-menarchal <input type="radio"/> Post-menarchal <input checked="" type="radio"/> Not Recorded
Patient date of birth	12-28-2000
Date of injury	05-08-2016
Age at time of injury	15
Height	156 ((cm))
Weight	62 ((kg))
BMI	25.5

Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)

- ☐ MVA/MCA/ATV
☐ Auto-ped
☒ Sports
☐ Fall from height
☐ Other:

Date of surgery

05-08-2016

Age at time of surgery

15

Time from injury

0
(days)

Surgical technique

- ☐ Open reduction
☒ Closed reduction

Nail technique

- ☐ Suprapatellar
☐ Infrapatellar
☒ Extraarticular lateral
☐ Other:

Nail Diameter

(mm)

Nail Length

(cm)

Nail Manufacturer

Nail location

- ☐ Above physis
☒ At physis
☐ Below physis

Fracture location

- ☐ Distal 1/3 of shaft
☐ Middle 1/3 of shaft
☒ Proximal 1/3 of shaft

Fracture characteristics

- ☒ Transverse
☐ Spiral
☐ Oblique
☐ Comminuted

Fracture open

- ☐ Yes
☒ No

Fibula fracture

- ☐ Yes
☒ No

OTA Classification

[Attachment: "ota.jpg"]

Use the link provided above to identify the OTA Classification

- ☐ 42A
☐ 42A1
☐ 42A2
☐ 42A3
☐ 42B
☐ 42B2
☐ 42B2
☐ 42B3
☐ 42C
☐ 42C2
☐ 42C3

Associated injuries

- ☐ Ligamentous knee
☒ Fracture
☐ Head injury
☐ Other:
☐ None

Date of x-ray depicting radiographic healing

07-29-2016

Time for radiographic healing11.714285714285714
(weeks)

Post-op immobilization

- ☒ Cast/splint
☐ Boot
☐ Other:

For how long in cast/splint?9
(weeks)

Date patient regained full weight bearing without assistance

01-04-2017

Time to full weight bearing without assistance34.42857142857143
(weeks)

Complications?

- ☐ Yes
☒ No

Return to OR for HWR

- ☐ Yes
☒ No

Full return to normal activities and sports?

- ☒ Yes
☐ No

Were activities and sports at the same level as before the injury?

- ☐ Yes
☐ No

Last date of follow-up after injury

01-04-2017

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☐ Yes
☒ No

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☒ Yes
☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

14.42

Did patient reach skeletal maturity by the last postoperative visit?

☒ Yes
☐ No

Defined by closure of proximal tibia physis

Date skeletal maturity was observed

01-04-2017

How many months between injury and skeletal maturity?

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☐ Yes
☐ No

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☐ Yes
☐ No

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

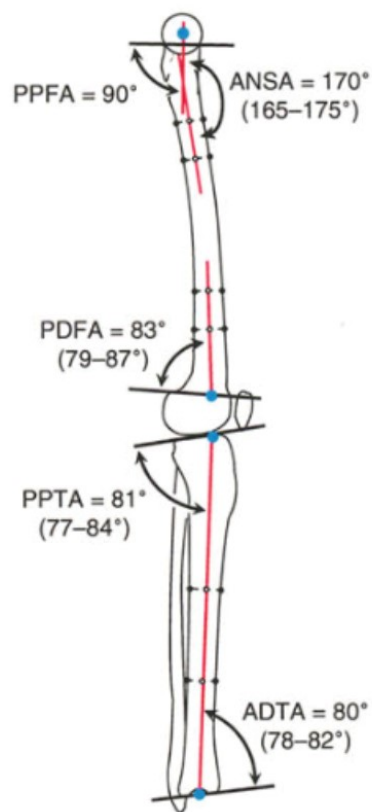
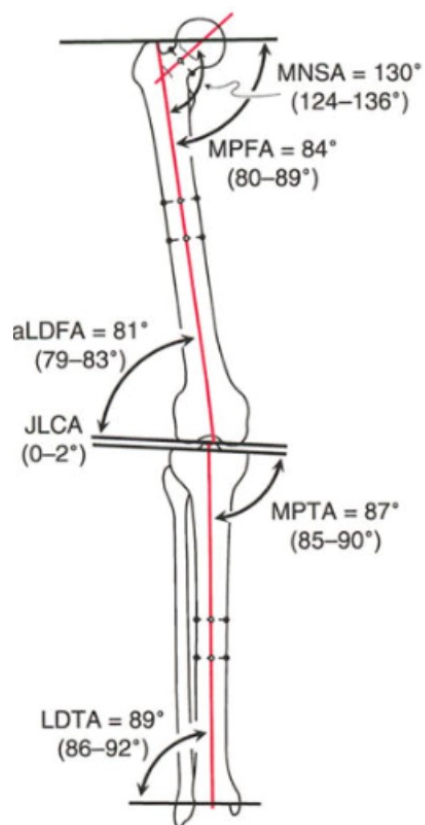
☐ Yes
☐ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes
☐ No



Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

35-004

Inclusion Criteria

Participant younger than 18 years at presentation

☒ Yes
☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☒ Yes
☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☒ Yes
☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes
☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes
☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes
☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes
☒ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes
☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input checked="" type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
------	---

Demographics

Sex	<input checked="" type="radio"/> Male <input type="radio"/> Female
Patient date of birth	07-18-2006
Date of injury	12-09-2021
Age at time of injury	15
Height	172.7 ((cm))
Weight	53.5 ((kg))
BMI	17.9

Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)	<input type="radio"/> MVA/MCA/ATV <input type="radio"/> Auto-ped <input type="radio"/> Sports <input type="radio"/> Fall from height <input checked="" type="radio"/> Other:
Other:	gunshot
Date of surgery	12-10-2021
Age at time of surgery	15
Time from injury	1 (days)
Surgical technique	<input checked="" type="radio"/> Open reduction <input type="radio"/> Closed reduction
Nail technique	<input type="radio"/> Suprapatellar <input type="radio"/> Infrapatellar <input type="radio"/> Extraarticular lateral <input checked="" type="radio"/> Other:
Other Nail Technique	perfect circle
Nail Diameter	10 (mm)
Nail Length	37 (cm)
Nail Manufacturer	Smith & Nephew
Nail location	<input type="radio"/> Above physis <input checked="" type="radio"/> At physis <input type="radio"/> Below physis
Fracture location	<input checked="" type="radio"/> Distal 1/3 of shaft <input type="radio"/> Middle 1/3 of shaft <input type="radio"/> Proximal 1/3 of shaft
Fracture characteristics	<input type="radio"/> Transverse <input type="radio"/> Spiral <input type="radio"/> Oblique <input checked="" type="radio"/> Comminuted
Fracture open	<input checked="" type="radio"/> Yes <input type="radio"/> No

Fibula fracture

- ☒ Yes
☐ No

Location

- ☐ Distal
☒ Middle
☐ Proximal

OTA Classification

[Attachment: "ota.jpg"]

*Use the link provided above to identify the OTA
Classification*

- ☐ 42A
☐ 42A1
☐ 42A2
☐ 42A3
☐ 42B
☐ 42B2
☐ 42B2
☐ 42B3
☐ 42C
☐ 42C2
☐ 42C3

Associated injuries

- ☐ Ligamentous knee
☐ Fracture
☐ Head injury
☐ Other:
☒ None

Date of x-ray depicting radiographic healing

Time for radiographic healing

(weeks)

Post-op immobilization

- ☐ Cast/splint
☐ Boot
☐ Other:

Date patient regained full weight bearing without
assistance

Time to full weight bearing without assistance

(weeks)

Complications?

- ☐ Yes
☐ No

Return to OR for HWR

- ☐ Yes
☐ No

Full return to normal activities and sports?

- ☐ Yes
☐ No

Last date of follow-up after injury

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☐ Yes
☒ No

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☒ Yes
☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

Did patient reach skeletal maturity by the last postoperative visit?

☐ Yes
☐ No

Defined by closure of proximal tibia physis

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☐ Yes
☐ No

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☐ Yes
☐ No

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

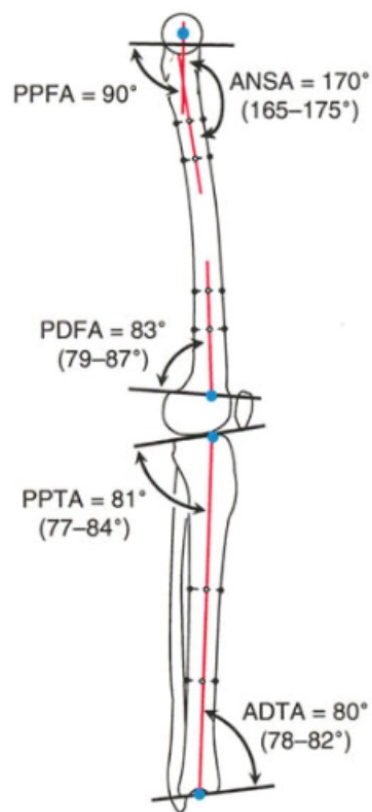
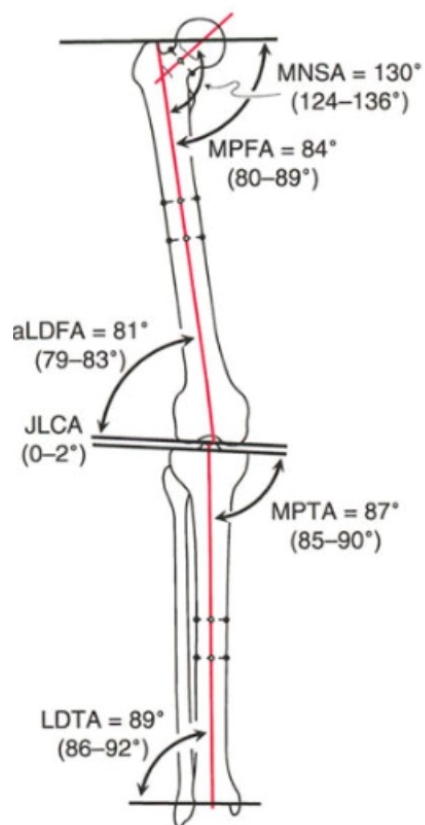
☐ Yes
☐ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes
☐ No



Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

35-005

Inclusion Criteria

Participant younger than 18 years at presentation

☒ Yes

☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☒ Yes

☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☒ Yes

☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes

☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes

☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes

☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes

☒ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes

☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input checked="" type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
------	---

Demographics

Sex	<input type="radio"/> Male <input checked="" type="radio"/> Female
-----	---

Menarche	<input type="radio"/> Pre-menarchal <input type="radio"/> Post-menarchal <input checked="" type="radio"/> Not Recorded
----------	--

Patient date of birth	10-21-2007
-----------------------	------------

Date of injury	02-07-2022
----------------	------------

Age at time of injury	14
-----------------------	----

Height	165.1 ((cm))
--------	-----------------

Weight	75.7 ((kg))
--------	----------------

BMI	27.8
-----	------

Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)	<input type="radio"/> MVA/MCA/ATV <input type="radio"/> Auto-ped <input type="radio"/> Sports <input type="radio"/> Fall from height <input checked="" type="radio"/> Other:
Other:	sledding
Date of surgery	02-14-2022
Age at time of surgery	14
Time from injury	7 (days)
Surgical technique	<input checked="" type="radio"/> Open reduction <input type="radio"/> Closed reduction
Nail technique	<input type="radio"/> Suprapatellar <input type="radio"/> Infrapatellar <input type="radio"/> Extraarticular lateral <input type="radio"/> Other:
Nail Diameter	10 (mm)
Nail Length	33 (cm)
Nail Manufacturer	Smith & Nephew/Rich Co
Nail location	<input checked="" type="radio"/> Above physis <input type="radio"/> At physis <input type="radio"/> Below physis
Do interlocking screws cross physis?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unable to determine
Fracture location	<input checked="" type="radio"/> Distal 1/3 of shaft <input type="radio"/> Middle 1/3 of shaft <input type="radio"/> Proximal 1/3 of shaft
Fracture characteristics	<input type="radio"/> Transverse <input checked="" type="radio"/> Spiral <input type="radio"/> Oblique <input type="radio"/> Comminuted
Fracture open	<input type="radio"/> Yes <input checked="" type="radio"/> No

Fibula fracture	<input checked="" type="radio"/> Yes <input type="radio"/> No
Location	<input checked="" type="radio"/> Distal <input type="radio"/> Middle <input type="radio"/> Proximal
OTA Classification	
[Attachment: "ota.jpg"]	
Use the link provided above to identify the OTA Classification	<input type="radio"/> 42A <input checked="" type="radio"/> 42A1 <input type="radio"/> 42A2 <input type="radio"/> 42A3 <input type="radio"/> 42B <input type="radio"/> 42B2 <input type="radio"/> 42B2 <input type="radio"/> 42B3 <input type="radio"/> 42C <input type="radio"/> 42C2 <input type="radio"/> 42C3
Associated injuries	<input type="checkbox"/> Ligamentous knee <input type="checkbox"/> Fracture <input type="checkbox"/> Head injury <input type="checkbox"/> Other: <input checked="" type="checkbox"/> None
Date of x-ray depicting radiographic healing	03-15-2022
Time for radiographic healing	5.142857142857143 (weeks)
Post-op immobilization	<input checked="" type="checkbox"/> Cast/splint <input type="checkbox"/> Boot <input type="checkbox"/> Other:
For how long in cast/splint?	4 (weeks)
Date patient regained full weight bearing without assistance	06-21-2022
Time to full weight bearing without assistance	18.142857142857142 (weeks)
Complications?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Return to OR for HWR	<input type="radio"/> Yes <input checked="" type="radio"/> No
Full return to normal activities and sports?	<input checked="" type="radio"/> Yes <input type="radio"/> No

Were activities and sports at the same level as before
the injury?

☒ Yes
☐ No

Last date of follow-up after injury

02-07-2023

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☐ Yes
☒ No

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☒ Yes
☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

Did patient reach skeletal maturity by the last postoperative visit?

☐ Yes
☐ No

Defined by closure of proximal tibia physis

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☐ Yes
☐ No

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☐ Yes
☐ No

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

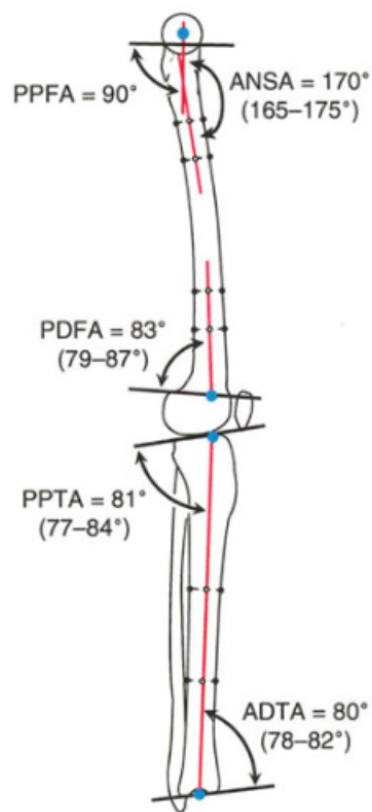
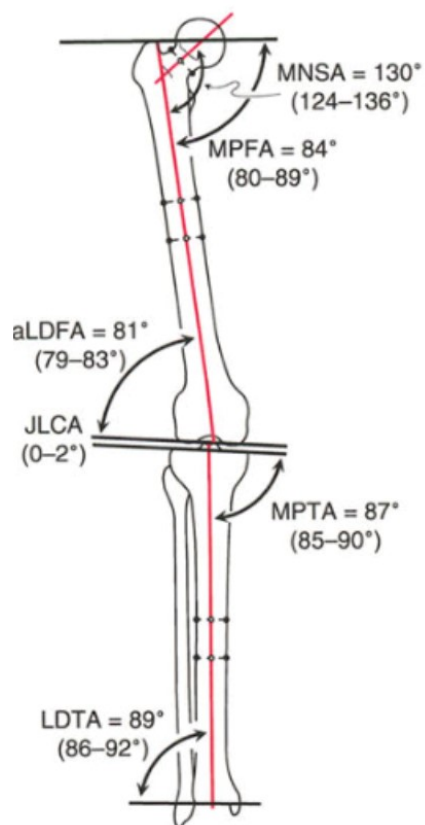
☐ Yes
☐ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes
☐ No



Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

35-006

Inclusion Criteria

Participant younger than 18 years at presentation

☒ Yes
☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☒ Yes
☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☒ Yes
☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes
☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes
☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes
☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes
☒ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes
☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input checked="" type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
------	---

Demographics

Sex	<input checked="" type="radio"/> Male <input type="radio"/> Female
-----	---

Patient date of birth	09-30-2006
-----------------------	------------

Date of injury	02-27-2022
----------------	------------

Age at time of injury	15
-----------------------	----

Height	177.5 ((cm))
--------	-----------------

Weight	56.5 ((kg))
--------	----------------

BMI	17.9
-----	------

Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)	<input type="radio"/> MVA/MCA/ATV <input type="radio"/> Auto-ped <input type="radio"/> Sports <input checked="" type="radio"/> Fall from height <input type="radio"/> Other:
Date of surgery	03-02-2022
Age at time of surgery	15
Time from injury	3 (days)
Surgical technique	<input checked="" type="radio"/> Open reduction <input type="radio"/> Closed reduction
Nail technique	<input type="radio"/> Suprapatellar <input type="radio"/> Infrapatellar <input checked="" type="radio"/> Extraarticular lateral <input type="radio"/> Other:
Nail Diameter	8.5 (mm)
Nail Length	37 (cm)
Nail Manufacturer	Smith & Nephew/Rich Co
Nail location	<input type="radio"/> Above physis <input checked="" type="radio"/> At physis <input type="radio"/> Below physis
Fracture location	<input checked="" type="radio"/> Distal 1/3 of shaft <input type="radio"/> Middle 1/3 of shaft <input type="radio"/> Proximal 1/3 of shaft
Fracture characteristics	<input checked="" type="radio"/> Transverse <input type="radio"/> Spiral <input type="radio"/> Oblique <input type="radio"/> Comminuted
Fracture open	<input type="radio"/> Yes <input checked="" type="radio"/> No
Fibula fracture	<input checked="" type="radio"/> Yes <input type="radio"/> No

Location	<input checked="" type="radio"/> Distal <input type="radio"/> Middle <input type="radio"/> Proximal
OTA Classification	
[Attachment: "ota.jpg"]	
Use the link provided above to identify the OTA Classification	<input type="radio"/> 42A <input type="radio"/> 42A1 <input type="radio"/> 42A2 <input checked="" type="radio"/> 42A3 <input type="radio"/> 42B <input type="radio"/> 42B2 <input type="radio"/> 42B2 <input type="radio"/> 42B3 <input type="radio"/> 42C <input type="radio"/> 42C2 <input type="radio"/> 42C3
Associated injuries	<input type="checkbox"/> Ligamentous knee <input type="checkbox"/> Fracture <input type="checkbox"/> Head injury <input type="checkbox"/> Other: <input checked="" type="checkbox"/> None
Date of x-ray depicting radiographic healing	04-12-2022
Time for radiographic healing	6.285714285714286 (weeks)
Post-op immobilization	<input checked="" type="checkbox"/> Cast/splint <input type="checkbox"/> Boot <input type="checkbox"/> Other:
For how long in cast/splint?	2 (weeks)
Date patient regained full weight bearing without assistance	05-17-2022
Time to full weight bearing without assistance	10.857142857142858 (weeks)
Complications?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Return to OR for HWR	<input type="radio"/> Yes <input checked="" type="radio"/> No
Full return to normal activities and sports?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Were activities and sports at the same level as before the injury?	<input type="radio"/> Yes <input checked="" type="radio"/> No

Last date of follow-up after injury

08-23-2022

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☐ Yes
☒ No

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☒ Yes
☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

Did patient reach skeletal maturity by the last postoperative visit?

☐ Yes
☐ No

Defined by closure of proximal tibia physis

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☐ Yes
☐ No

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☐ Yes
☐ No

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

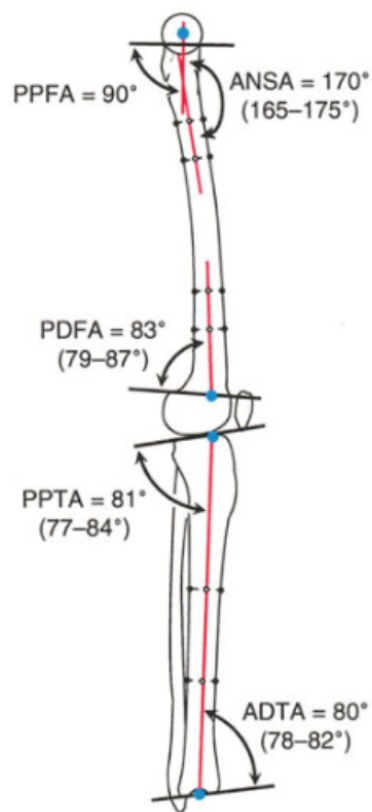
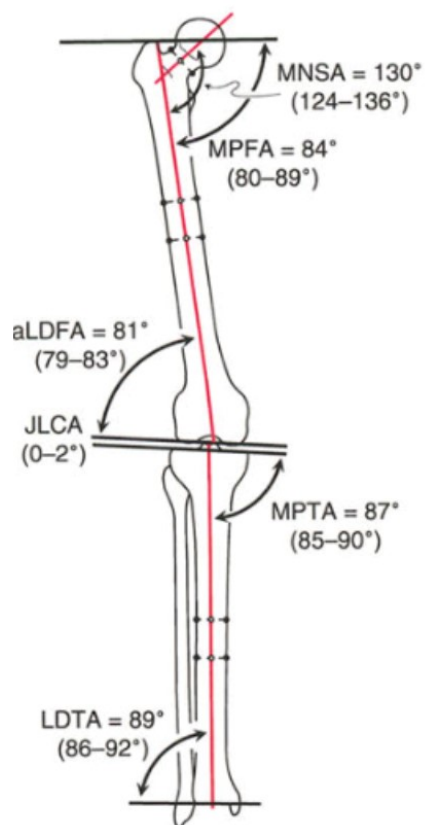
☐ Yes
☐ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes
☐ No



Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

35-007

Inclusion Criteria

Participant younger than 18 years at presentation

☒ Yes

☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☒ Yes

☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☒ Yes

☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes

☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes

☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes

☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes

☒ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes

☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input checked="" type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
------	---

Demographics

Sex	<input checked="" type="radio"/> Male <input type="radio"/> Female
-----	---

Patient date of birth	04-27-2007
-----------------------	------------

Date of injury	03-17-2022
----------------	------------

Age at time of injury	14
-----------------------	----

Height	170.2 ((cm))
--------	-----------------

Weight	61 ((kg))
--------	--------------

BMI	21.1
-----	------

Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)	<input type="radio"/> MVA/MCA/ATV <input type="radio"/> Auto-ped <input type="radio"/> Sports <input type="radio"/> Fall from height <input checked="" type="radio"/> Other:
Other:	bicycle crash
Date of surgery	03-21-2022
Age at time of surgery	14
Time from injury	4 (days)
Surgical technique	<input checked="" type="radio"/> Open reduction <input type="radio"/> Closed reduction
Nail technique	<input type="radio"/> Suprapatellar <input type="radio"/> Infrapatellar <input type="radio"/> Extraarticular lateral <input checked="" type="radio"/> Other:
Other Nail Technique	proximal lateral
Nail Diameter	10 (mm)
Nail Length	35 (cm)
Nail Manufacturer	Smith & Nephew Tri Gen
Nail location	<input type="radio"/> Above physis <input checked="" type="radio"/> At physis <input type="radio"/> Below physis
Fracture location	<input checked="" type="radio"/> Distal 1/3 of shaft <input type="radio"/> Middle 1/3 of shaft <input type="radio"/> Proximal 1/3 of shaft
Fracture characteristics	<input type="radio"/> Transverse <input checked="" type="radio"/> Spiral <input type="radio"/> Oblique <input type="radio"/> Comminuted
Fracture open	<input type="radio"/> Yes <input checked="" type="radio"/> No

Fibula fracture	<input checked="" type="radio"/> Yes <input type="radio"/> No
Location	<input checked="" type="radio"/> Distal <input type="radio"/> Middle <input type="radio"/> Proximal
OTA Classification	
[Attachment: "ota.jpg"]	
Use the link provided above to identify the OTA Classification	<input type="radio"/> 42A <input checked="" type="radio"/> 42A1 <input type="radio"/> 42A2 <input type="radio"/> 42A3 <input type="radio"/> 42B <input type="radio"/> 42B2 <input type="radio"/> 42B2 <input type="radio"/> 42B3 <input type="radio"/> 42C <input type="radio"/> 42C2 <input type="radio"/> 42C3
Associated injuries	<input type="checkbox"/> Ligamentous knee <input type="checkbox"/> Fracture <input type="checkbox"/> Head injury <input type="checkbox"/> Other: <input checked="" type="checkbox"/> None
Date of x-ray depicting radiographic healing	04-19-2022
Time for radiographic healing	4.714285714285714 (weeks)
Post-op immobilization	<input checked="" type="checkbox"/> Cast/splint <input type="checkbox"/> Boot <input type="checkbox"/> Other:
For how long in cast/splint?	2 (weeks)
Date patient regained full weight bearing without assistance	06-21-2022
Time to full weight bearing without assistance	13.142857142857142 (weeks)
Complications?	<input checked="" type="radio"/> Yes <input type="radio"/> No

Complications

- ☐ Infection
- ☐ VTE (Venous thrombosis)
- ☐ Nerve or vessel injury
- ☐ Physeal arrest
- ☐ Delayed/nonunion
- ☒ Unplanned return to OR (i.e. other than HWR)
- ☐ Ipsilateral extremity injury
- ☐ Other:

Return to OR for HWR

- ☐ Yes
- ☒ No

Full return to normal activities and sports?

- ☐ Yes
- ☒ No

Last date of follow-up after injury

03-28-2023

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☐ Yes
☒ No

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☒ Yes
☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

Did patient reach skeletal maturity by the last postoperative visit?

☐ Yes
☐ No

Defined by closure of proximal tibia physis

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☐ Yes
☐ No

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☐ Yes
☐ No

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

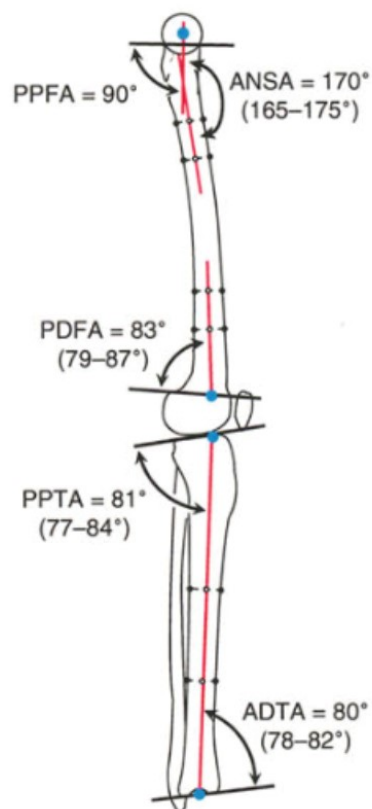
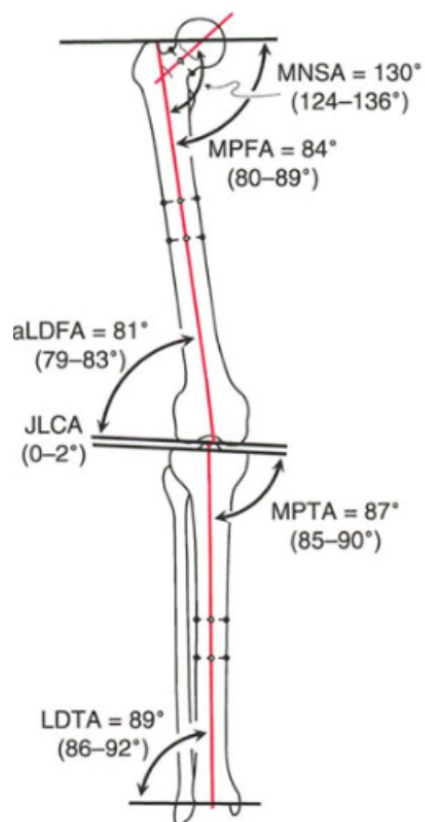
☐ Yes
☐ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes
☐ No



Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

35-008

Inclusion Criteria

Participant younger than 18 years at presentation

☒ Yes

☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☒ Yes

☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☒ Yes

☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes

☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes

☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes

☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes

☒ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes

☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input checked="" type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
------	---

Demographics

Sex	<input checked="" type="radio"/> Male <input type="radio"/> Female
-----	---

Patient date of birth	01-06-2008
-----------------------	------------

Date of injury	05-20-2022
----------------	------------

Age at time of injury	14
-----------------------	----

Height	162.6 ((cm))
--------	-----------------

Weight	106.6 ((kg))
--------	-----------------

BMI	40.3
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Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)	<input type="radio"/> MVA/MCA/ATV <input type="radio"/> Auto-ped <input checked="" type="radio"/> Sports <input type="radio"/> Fall from height <input type="radio"/> Other:
Date of surgery	05-20-2022
Age at time of surgery	14
Time from injury	0 (days)
Surgical technique	<input checked="" type="radio"/> Open reduction <input type="radio"/> Closed reduction
Nail technique	<input type="radio"/> Suprapatellar <input checked="" type="radio"/> Infrapatellar <input type="radio"/> Extraarticular lateral <input type="radio"/> Other:
Nail Diameter	8.5 (mm)
Nail Length	32 (cm)
Nail Manufacturer	Smith & Nephew Tri Gen
Nail location	<input type="radio"/> Above physis <input checked="" type="radio"/> At physis <input type="radio"/> Below physis
Fracture location	<input checked="" type="radio"/> Distal 1/3 of shaft <input type="radio"/> Middle 1/3 of shaft <input type="radio"/> Proximal 1/3 of shaft
Fracture characteristics	<input type="radio"/> Transverse <input type="radio"/> Spiral <input checked="" type="radio"/> Oblique <input type="radio"/> Comminuted
Fracture open	<input type="radio"/> Yes <input checked="" type="radio"/> No
Fibula fracture	<input checked="" type="radio"/> Yes <input type="radio"/> No

Location	<input checked="" type="radio"/> Distal <input type="radio"/> Middle <input type="radio"/> Proximal
OTA Classification	
[Attachment: "ota.jpg"]	
Use the link provided above to identify the OTA Classification	<input type="radio"/> 42A <input type="radio"/> 42A1 <input checked="" type="radio"/> 42A2 <input type="radio"/> 42A3 <input type="radio"/> 42B <input type="radio"/> 42B2 <input type="radio"/> 42B2 <input type="radio"/> 42B3 <input type="radio"/> 42C <input type="radio"/> 42C2 <input type="radio"/> 42C3
Associated injuries	<input type="checkbox"/> Ligamentous knee <input type="checkbox"/> Fracture <input type="checkbox"/> Head injury <input type="checkbox"/> Other: <input checked="" type="checkbox"/> None
Date of x-ray depicting radiographic healing	_____
Time for radiographic healing	_____ (weeks)
Post-op immobilization	<input type="checkbox"/> Cast/splint <input checked="" type="checkbox"/> Boot <input type="checkbox"/> Other:
For how long in boot?	2 (weeks)
Date patient regained full weight bearing without assistance	_____
Time to full weight bearing without assistance	_____ (weeks)
Complications?	<input type="radio"/> Yes <input type="radio"/> No
Return to OR for HWR	<input type="radio"/> Yes <input type="radio"/> No
Full return to normal activities and sports?	<input type="radio"/> Yes <input type="radio"/> No
Last date of follow-up after injury	05-22-2022

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☐ Yes
☒ No

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☒ Yes
☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

Did patient reach skeletal maturity by the last postoperative visit?

☐ Yes
☐ No

Defined by closure of proximal tibia physis

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☐ Yes
☐ No

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☐ Yes
☐ No

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

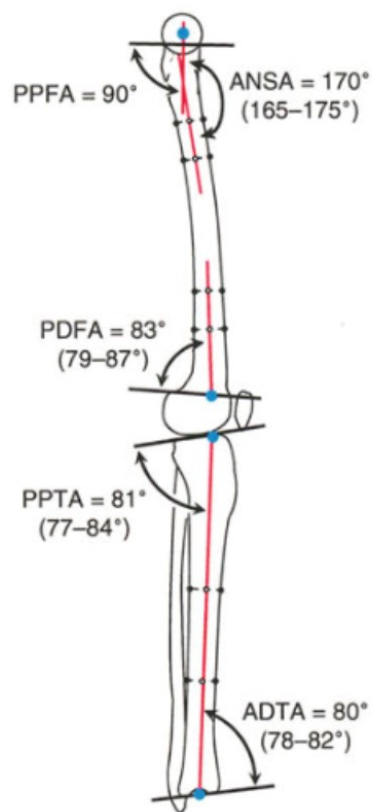
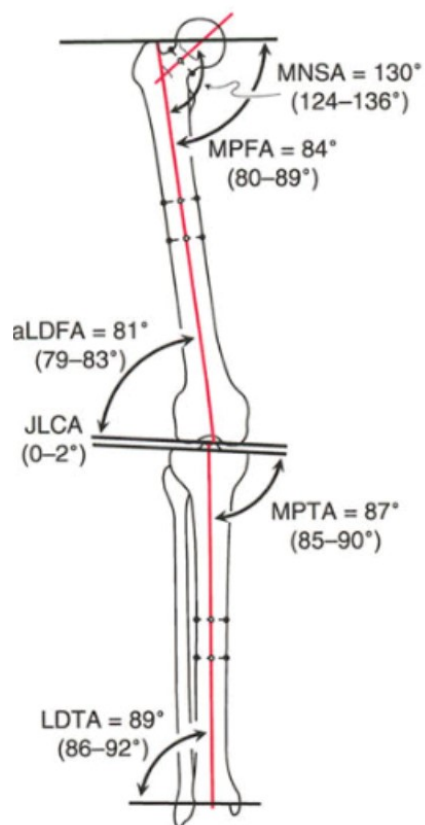
☐ Yes
☐ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes
☐ No



Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

35-009

Inclusion Criteria

Participant younger than 18 years at presentation

☒ Yes
☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☒ Yes
☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☒ Yes
☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes
☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes
☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes
☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes
☒ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes
☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input checked="" type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
------	---

Demographics

Sex	<input checked="" type="radio"/> Male <input type="radio"/> Female
-----	---

Patient date of birth	01-15-2007
-----------------------	------------

Date of injury	09-28-2022
----------------	------------

Age at time of injury	15
-----------------------	----

Height	<input type="text"/> ((cm))
--------	--------------------------------

Weight	<input type="text"/> ((kg))
--------	--------------------------------

BMI	-10
-----	-----

Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)	<input type="radio"/> MVA/MCA/ATV <input type="radio"/> Auto-ped <input type="radio"/> Sports <input checked="" type="radio"/> Fall from height <input type="radio"/> Other:
Date of surgery	09-28-2022
Age at time of surgery	15
Time from injury	0 (days)
Surgical technique	<input type="radio"/> Open reduction <input checked="" type="radio"/> Closed reduction
Nail technique	<input type="radio"/> Suprapatellar <input type="radio"/> Infrapatellar <input checked="" type="radio"/> Extraarticular lateral <input type="radio"/> Other:
Nail Diameter	10 (mm)
Nail Length	36 (cm)
Nail Manufacturer	Smith & Nephew Tri Gen
Nail location	<input type="radio"/> Above physis <input checked="" type="radio"/> At physis <input type="radio"/> Below physis
Fracture location	<input checked="" type="radio"/> Distal 1/3 of shaft <input type="radio"/> Middle 1/3 of shaft <input type="radio"/> Proximal 1/3 of shaft
Fracture characteristics	<input type="radio"/> Transverse <input type="radio"/> Spiral <input type="radio"/> Oblique <input checked="" type="radio"/> Comminuted
Fracture open	<input type="radio"/> Yes <input checked="" type="radio"/> No
Fibula fracture	<input checked="" type="radio"/> Yes <input type="radio"/> No

Location	<input checked="" type="radio"/> Distal <input type="radio"/> Middle <input type="radio"/> Proximal
OTA Classification	
[Attachment: "ota.jpg"]	
Use the link provided above to identify the OTA Classification	<input type="radio"/> 42A <input type="radio"/> 42A1 <input type="radio"/> 42A2 <input type="radio"/> 42A3 <input type="radio"/> 42B <input type="radio"/> 42B2 <input type="radio"/> 42B2 <input type="radio"/> 42B3 <input type="radio"/> 42C <input type="radio"/> 42C2 <input type="radio"/> 42C3
Associated injuries	<input type="checkbox"/> Ligamentous knee <input type="checkbox"/> Fracture <input type="checkbox"/> Head injury <input type="checkbox"/> Other: <input checked="" type="checkbox"/> None
Date of x-ray depicting radiographic healing	11-14-2022
Time for radiographic healing	6.714285714285714 (weeks)
Post-op immobilization	<input checked="" type="checkbox"/> Cast/splint <input type="checkbox"/> Boot <input type="checkbox"/> Other:
For how long in cast/splint?	2 (weeks)
Date patient regained full weight bearing without assistance	01-23-2023
Time to full weight bearing without assistance	16.714285714285715 (weeks)
Complications?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Return to OR for HWR	<input checked="" type="radio"/> Yes <input type="radio"/> No
Date of Surgery	08-29-2023
Full return to normal activities and sports?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Last date of follow-up after injury	12-04-2023

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☐ Yes

☒ No

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☒ Yes

☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

Did patient reach skeletal maturity by the last postoperative visit?

☐ Yes

☐ No

Defined by closure of proximal tibia physis

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☐ Yes

☐ No

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☐ Yes

☐ No

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

☐ Yes

☐ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

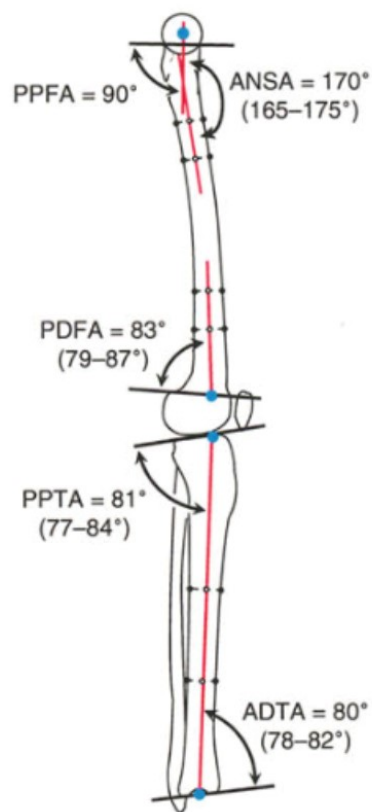
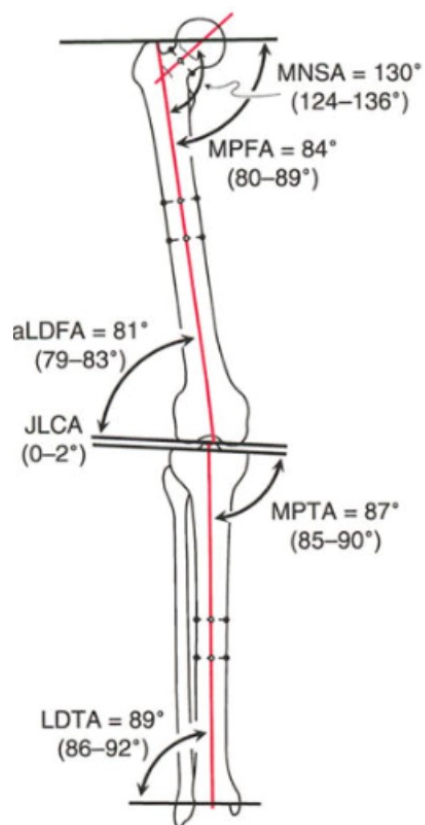
☐ Yes

☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes

☐ No



Eligibility

Record ID * Choose an existing Study ID *Please refer to the Data Entry Guide for instructions about Study ID creation.

35-010

Inclusion Criteria

Participant younger than 18 years at presentation

☒ Yes
☐ No

Diagnosed with tibial shaft fracture, open physes, and treated with rigid tibial intramedullary nail

☒ Yes
☐ No

Presented at a CORTICES institution between January 2010 and June 2024

☒ Yes
☐ No

On the Skeletal Maturity App the participant was identified as a TibQ-1 or TibQ-0?

☐ Yes
☐ No

Exclusion Criteria

Is the participant skeletally mature at presentation

☐ Yes
☒ No

Treated with anything other than rigid tibial intramedullary nail

☐ Yes
☒ No

Only treatment was a nail removal at a CORTICES institution

☐ Yes
☒ No

Eligibility

If you answered NO for any of the inclusion questions or YES for any exclusion questions then the patient is no longer eligible for data collection

Is the participant eligible for data collection

☒ Yes
☐ No

Demographics

Site	<input type="radio"/> Boston Children's <input type="radio"/> Levine Children's <input type="radio"/> Children's Atlanta <input type="radio"/> Children's Colorado <input type="radio"/> Scottish Rite for Children <input type="radio"/> Children's Los Angeles <input type="radio"/> Children's Philadelphia <input type="radio"/> Cincinnati Children's <input type="radio"/> CS Mott Children's <input type="radio"/> Gillette Children's <input type="radio"/> Le Bonheur Children's/Campbell Clinic <input type="radio"/> Lurie Children's <input type="radio"/> Nationwide Children's <input type="radio"/> Rady Children's <input type="radio"/> Seattle Children's <input checked="" type="radio"/> St. Louis Children's <input type="radio"/> Texas Children's <input type="radio"/> Vanderbilt Children's <input type="radio"/> UCSF Benioff Children's Hospital
------	---

Demographics

Sex	<input checked="" type="radio"/> Male <input type="radio"/> Female
-----	---

Patient date of birth	01-27-2008
-----------------------	------------

Date of injury	02-02-2023
----------------	------------

Age at time of injury	15
-----------------------	----

Height	
--------	--

((cm))

Weight	
--------	--

((kg))

Injury Characteristics

Injury Characteristics

Mechanism of injury (MOI)	<input type="radio"/> MVA/MCA/ATV <input type="radio"/> Auto-ped <input type="radio"/> Sports <input type="radio"/> Fall from height <input checked="" type="radio"/> Other:
Other:	wrestling
Date of surgery	02-09-2023
Age at time of surgery	15
Time from injury	7 (days)
Surgical technique	<input type="radio"/> Open reduction <input checked="" type="radio"/> Closed reduction
Nail technique	<input type="radio"/> Suprapatellar <input type="radio"/> Infrapatellar <input type="radio"/> Extraarticular lateral <input type="radio"/> Other:
Nail Diameter	11.5 (mm)
Nail Length	32 (cm)
Nail Manufacturer	Smith & Nephew TriGen
Nail location	<input type="radio"/> Above physis <input type="radio"/> At physis <input type="radio"/> Below physis
Fracture location	<input type="radio"/> Distal 1/3 of shaft <input checked="" type="radio"/> Middle 1/3 of shaft <input type="radio"/> Proximal 1/3 of shaft
Fracture characteristics	<input type="radio"/> Transverse <input checked="" type="radio"/> Spiral <input type="radio"/> Oblique <input type="radio"/> Comminuted
Fracture open	<input type="radio"/> Yes <input checked="" type="radio"/> No
Fibula fracture	<input type="radio"/> Yes <input checked="" type="radio"/> No

OTA Classification

[Attachment: "ota.jpg"]

Use the link provided above to identify the OTA Classification

- ☐ 42A
☒ 42A1
☐ 42A2
☐ 42A3
☐ 42B
☐ 42B2
☐ 42B2
☐ 42B3
☐ 42C
☐ 42C2
☐ 42C3

Associated injuries

- ☐ Ligamentous knee
☐ Fracture
☐ Head injury
☐ Other:
☒ None

Date of x-ray depicting radiographic healing

03-17-2023

Time for radiographic healing6.142857142857143
(weeks)

Post-op immobilization

- ☐ Cast/splint
☒ Boot
☐ Other:

For how long in boot?4
(weeks)

Date patient regained full weight bearing without assistance

04-18-2023

Time to full weight bearing without assistance9.714285714285714
(weeks)

Complications?

- ☐ Yes
☒ No

Return to OR for HWR

- ☐ Yes
☒ No

Full return to normal activities and sports?

- ☐ Yes
☐ No

Last date of follow-up after injury

04-18-2023

Radiographic Measurements

Radiographic Measurements

This section must be completed by or in conjunction with PI's

Was there a Left hand xray obtained within 3 months of injury?

☐ Yes
☒ No

Was there an ipsilateral or contralateral knee radiograph obtained within 3 months of injury?

☒ Yes
☐ No

Skeletal Bone age (knee) calculated via the Modified Fels/Liu bone age using Skeletal Maturity Rainbow app

Did patient reach skeletal maturity by the last postoperative visit?

☐ Yes
☐ No

Defined by closure of proximal tibia physis

First AP and lateral of tibia obtained post-operatively [2 weeks to 4 months after surgery]

☐ Yes
☐ No

AP and lateral of tibia obtained after skeletal maturity (closure of proximal tibial physis).

☐ Yes
☐ No

If patient was skeletally immature at last postop visit [2 weeks to 4 months post op]: latest AP and lateral of tibia

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained 2 weeks - 4 months post op?

☐ Yes
☐ No

Was a standing AP of both lower extremities obtained after skeletal maturity?

☐ Yes
☐ No

