

تاریخ دریافت ۸۴/۰۴/۱۵، تاریخ پذیرش ۸۳/۰۷/۰۸

- 
- <sup>۳</sup> Sub trochanteric
  - <sup>۴</sup> Supra condylar
  - <sup>۵</sup> Woven bone
  - <sup>۶</sup> Lamellar bone
  - <sup>۷</sup> Load condition
  - <sup>۸</sup> High velocity trauma

%  
%

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<sup>15</sup> External Fixator

<sup>16</sup> Immediate casting

<sup>17</sup> Tibia

<sup>18</sup> Fibula

<sup>19</sup> Butterfly

<sup>20</sup> Spica

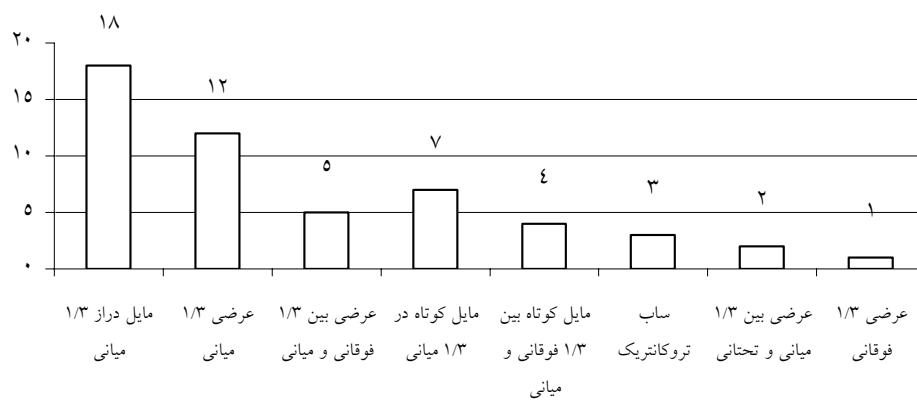
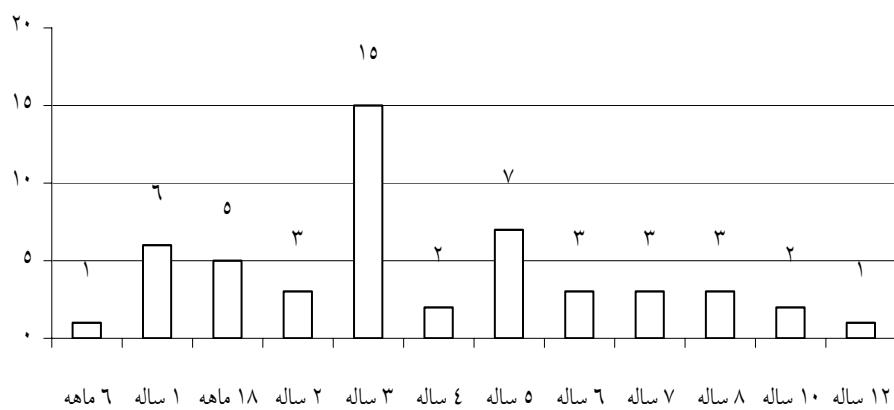
<sup>21</sup> Valgus

<sup>22</sup> Molding

<sup>23</sup> Angulation

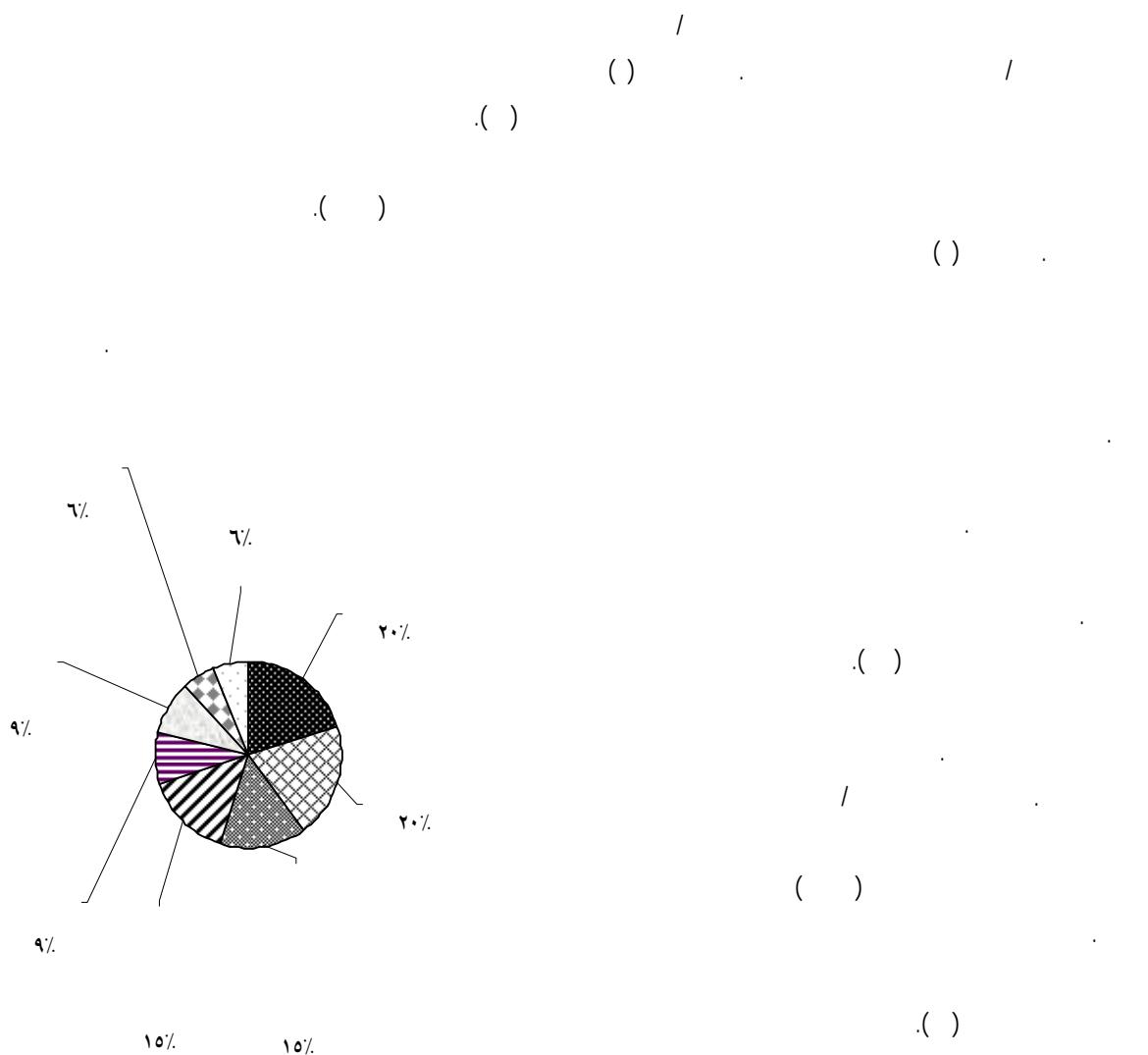
<sup>24</sup> Wedging

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- <sup>1</sup> Transverse
  - <sup>2</sup> Oblique
  - <sup>3</sup> Spiral
  - <sup>4</sup> Periosteum
  - <sup>5</sup> Proximal
  - <sup>6</sup> Abduction
  - <sup>7</sup> Flexion
  - <sup>8</sup> External rotation
  - <sup>9</sup> Gastrocnemius
  - <sup>10</sup> Hyperextension
  - <sup>11</sup> Pavlic harness
  - <sup>12</sup> Bryant
  - <sup>13</sup> Hip
  - <sup>14</sup> Overriding



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<sup>1</sup>Flexible nailing



<sup>2</sup> Henderson

<sup>3</sup> Rasool

<sup>3</sup> Phisis

<sup>4</sup> Sagital

<sup>5</sup> Frontal

**References:**

1. Mc Carthy RE. A method for early spica cast application in treatment of pediatric femoral shaft fractures.J Pediatr Orthop. 1986, 6:89-91.
2. Irani RN, Nicholson JT, Chung SM. Long-term results in the treatment of femoral shaft fractures in young children by Immediate spica immobilization. J Bone Joint Surg, 1976, 586 (7): 945-951.
3. Sahin V, Baktir A, Turk CY, et al. Femoral shaft fractures in children treated by closed reduction and early spica cast with incorporated supracondylar Krishner wires:a long term follow up results.Injury, 1999, 30:121-128.
4. Wright JG, Wang EF, Owen JL, et al. Treatment for paediatric femoral fractures: a randomised trial. Lancet, 2005, 365: 1153-1158.
5. Heyworth BE, Galanco GJ, Vitale MA, et al. Management of closed femoral shaft fractures in children, ages 6 TO 10: National practice patterns and emerging trends.J Pediatr Orthop, 2004, 24:450-459.
6. Henderson Ol, Morrissey RT, Gerdes MH, et al. Early casting of femoral shaft fractures in children. J Pediatr Orthop, 1984, Jan. 4: 16-21.
7. Rasool MN, Govender S, Naidoo KS, Treatment of femoral shaft Fractures in children by early spica casting. Afr Med, J, 1989, 76: 96-99.
8. Martines AG, Carroll NC, Sarwark JF, et al. Femoral shaft fractures in children treated with early spica cast. J Pediatr Orthop, 1991, 11: 712-716.
9. Buehler KC, Thompson JD, Sponseller PD, et al. Study of early spica casting outcomes in the treatment of femoral shaft fractures in children. J Pediatr Orthop, 1995, 15: 30-35.
10. Edwarden and Syrensen S. Overgrowth of the femur after fracture of the shaft in childhood. J Bone Joint Surg, 1979, 58: 339-342.
11. Shapiro F: Fractures of the femoral shaft in children:the overgrowth phenomenon.Acta Orthop Scand, 1981, 52:649-655.
12. Staheli L. Femoral and tibial growth following femoral shaft Fracture in Childhood. ClinOrthop, 1967, 55: 159-163.
13. Wallace ME, Hofman EB. Remodelling of angular deformity after femoral shaft fractures in children.J Bone Joint Surg(Br), 1992, 74:765-769.
14. Davids JR. Rotational deformity and remodeling after fracture of the femur in children.Clin Orthop, 1994, 302:27-35.
15. Braten M, Terjesen T, Rossvoll I. Torsional deformity after intramedullary nailing of femoral shaft fractures:measurment of anteversion angles in 110 patients.J Bone Joint Surg, 1993, 75:799-803.