Origin and Fate of Hip Fracture in California

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Hospital admission rates with hip fracture (per 100,000 population) in California from 2000 to 2014

- Male (age adjusted)
- Female (age adjusted)
- Combine (age and sex adjusted)
Hospital admission rates with hip fracture (per 100,000 population) in California years 2000 versus 2014

<table>
<thead>
<tr>
<th>Category</th>
<th>2000</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male (age adjusted)</td>
<td>75.3</td>
<td>56.4</td>
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<td>Female (age adjusted)</td>
<td>200.9</td>
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<td>Combine (age and sex</td>
<td>139.2</td>
<td>92.6</td>
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<td>adjusted)</td>
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Hospital admission rates with hip fracture (per 100,000 population) in California years 2000 versus 2014
Hospital admission rates with hip fracture (per 100,000 population) by age groups for both sexes in California from 2000 to 2014.
Hospital admission rates with hip fracture (per 100,000 population) by male age groups in California from 2000 to 2014

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<tbody>
<tr>
<td>18-44</td>
<td>1924.7</td>
<td>1834.1</td>
<td>1694.9</td>
<td>1618.7</td>
<td>1484.8</td>
<td>1544.2</td>
<td>1507.9</td>
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<td>45-54</td>
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<td>502.7</td>
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<td>473.9</td>
<td>440.2</td>
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<td>146.3</td>
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<td>134.3</td>
<td>133.1</td>
<td>124.9</td>
<td>119.4</td>
<td>121.8</td>
<td>118.2</td>
<td>125.6</td>
<td>116.9</td>
<td>117.3</td>
<td>113.1</td>
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<td>134.3</td>
<td>133.1</td>
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<td>133.1</td>
<td>124.9</td>
<td>119.4</td>
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<td>118.2</td>
<td>125.6</td>
<td>116.9</td>
<td>117.3</td>
<td>113.1</td>
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<td>75-84</td>
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<td>133.1</td>
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<td>85-100</td>
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<td>125.6</td>
<td>116.9</td>
<td>117.3</td>
<td>113.1</td>
<td>113.1</td>
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Hospital admission rates with hip fracture (per 100,000 population) by female age groups in California from 2000 to 2014
Hospital admission rate with hip fracture (per 100,000 population) for both sexes by two age groups (18-44 years and 45-55 years) in California from 2000 to 2014.
Hospital admission rate with hip fracture (per 100,000 population) for both sexes by two age groups (75-84 years and 85-100 years) in California from 2000 to 2014
Hospital admission rate with hip fracture (per 100,000 population) for both sexes by two age groups (75-84 years and 85-100 years) in California years 2000 verses 2014

<table>
<thead>
<tr>
<th></th>
<th>Male 75-84 years</th>
<th>Male 85-100 years</th>
<th>Female 75-84 years</th>
<th>Female 85-100 years</th>
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</thead>
<tbody>
<tr>
<td>2000</td>
<td>571.9</td>
<td>1,924.7</td>
<td>1,258.5</td>
<td>3,139.8</td>
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<tr>
<td>2014</td>
<td>408.1</td>
<td>705.3</td>
<td>1,122.7</td>
<td>1,922.5</td>
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</tbody>
</table>

Bar chart showing hospital admission rates for hip fracture per 100,000 population in California for both sexes by two age groups (75-84 years and 85-100 years) in 2000 and 2014.
Average age over 15 years for hospital admission with hip fracture for both sexes
Average age by gender over 15 years for the hospital admissions with hip fracture
Hospital admission rate with hip fracture (per 100,000 population) by race/ethnicity in California from 2000 to 2014

Other includes Native American/Eskimo/Aleut/unknown/not declared
Hospital admission rate with hip fracture (per 100,000 population) by race/ethnicity in California years 2000 verses 2014

- White
  - 2000: 195.6
  - 2014: 160.9

- African American
  - 2000: 54.4
  - 2014: 46.3

- Asian & Pacific Islanders
  - 2000: 38.3
  - 2014: 42.2

- Hispanic
  - 2000: 33.8
  - 2014: 35.7

- Other
  - 2000: 121.6
  - 2014: 130.3

Other includes Native American/Eskimo/Aleut/unknown/not declared
Hospital admission rate with hip fracture (per 100,000 population) by geographic regions in California years 2000 verse 2014

Other includes Native American/Eskimo/Aleut/unknown/not declared
Percent hospital admissions with hip fracture by payer source in California from 2000 to 2014

Insurance other includes Workers’ Compensation, County Indigent Programs, Other Government programs, Other Indigent, Self Pay, Other Payer and Invalid/Blank (not declared)
Percent hospital admissions with hip fracture by payer source in California years 2000 versus 2014

Insurance other includes Workers’ Compensation, County Indigent Programs, Other Government programs, Other Indigent, Self Pay, Other Payer and Invalid/Blank (not declared)
Patient fate after discharge from hospitals in California from 2000 to 2014

- Routine (home)
- Acute and other Care within the admitting hospital
- Skilled Nursing/Intermediate Care (SN/IC) within the admitting hospital
- Other Care (not SN/IC) at another hospital
- Skilled Nursing/Intermediate Care (SN/IC) at another facility
- Home Health Service
- Other

Other includes Invalid or Blank
Patient fate after discharge from hospitals in California years 2000 verse 2014

- **Routine (home)**
- Acute and other Care within the admitting hospital
- Skilled Nursing/Intermediate Care (SN/IC) within the admitting hospital
- Other Care (not SN/IC) at another hospital
- Skilled Nursing/Intermediate Care (SN/IC) at another facility
- Home Health Service
- Other

Other includes Invalid or Blank
Types of hip fractures among hospital admissions in California from 2000 to 2014

- Transcervical fracture, closed: 27.3%
- Transcervical fracture, open: 0.1%
- Pertrochanteric fracture, closed: 49.0%
- Pertrochanteric fracture, open: 0.3%
- Unspecified part of neck of femur, closed: 23.1%
- Unspecified part of neck of femur, open: 0.1%
Causes of hip fractures among hospital admissions in California years 2000 verse 2014

- Injuries (intentional + unintentional): 92.4%
- Non-injuries (no injury codes present): 7.6%
Causes of hip fracture hospital admissions among injuries in California from 2000 to 2014

- Fall related injuries: 92.7%
- Injuries not due to falls (motor vehicle traffic, cycling, war, assault, homicide, struck by object, etc.): 7.3%
Origin of hospital admissions with hip fracture years 2000 versus 2014

<table>
<thead>
<tr>
<th>Category</th>
<th>2000</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home accidents</td>
<td>56.9</td>
<td>61.0</td>
</tr>
<tr>
<td>Street and highway accidents</td>
<td>2.4</td>
<td>3.4</td>
</tr>
<tr>
<td>Accidents occurring in public building</td>
<td>2.7</td>
<td>3.4</td>
</tr>
<tr>
<td>Accidents occurring in residential institution</td>
<td>14.9</td>
<td>15.5</td>
</tr>
<tr>
<td>Accidents occurring in other specified places</td>
<td>3.7</td>
<td>6.6</td>
</tr>
<tr>
<td>Accidents occurring in unspecified place</td>
<td>8.1</td>
<td>11.4</td>
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</table>
Main comorbidities associated with hip fracture years 2000 verses 2014
Percentage who had total or partial hip replacement among hospital admissions with hip fracture from 2000 to 2014
Average length of hospital stay (days) for hospital admissions with hip fracture from 2000 to 2014

Excluded length of stay >30 days
Average length of hospital stay (days) for hospital admissions with hip fracture by **gender** from 2000 to 2014

Excluded length of stay >30 days
Average length of hospital stay (days) for hospital admissions with hip fracture by race/ethnicity from 2000 to 2014

Excluded length of stay >30 days
Average length of hospital stay (days) for hospital admissions with hip fracture by **race/ethnicity** from 2000 to 2014

Excluded length of stay >30 days
Reduction in average length of hospital stay (days) for hospital admissions with hip fracture by race/ethnicity from 2000 to 2014

Excluded length of stay >30 days
Relationship between leaving hospital and admitted to skilled nursing/intermediate care (SN/IC) at another facility versus average length of hospital stay (days) for hospital admissions with hip fracture from 2000 to 2014

Excluded length of stay >30 days