

Clinical Standardization

POST FALL HEAD COMPUTED TOMOGRAPHY (CT), INPATIENT, PATHWAY

Updated: AUGUST 23, 2022



criteria



Clinical Pathway Summary

CLINICAL PATHWAY NAME: Post Fall Head CT, Inpatient

PATIENT POPULATION AND DIAGNOSIS: All Adult Inpatients

APPLICABLE TO: All Spectrum Health Acute Care Inpatient Sites

BRIEF DESCRIPTION: This algorithm is a resource to be used by the Hospitalist as a guideline to identify when a head CT is appropriate post fall.

IMPLEMENTATION DATE: October 1, 2022

LAST REVISED: August 23, 2022

Pathway Information

OWNERS(S): Dr Shagufta Hayat

CONTRIBUTOR(S): Dr Cheryl Peavler, Caroline Maas CNS (clinical nurse specialists), Mary Doughtery Nursing Director, Rachel Spek Sr Specialist Improvement

EXPERT IMPROVEMENT TEAM (EIT): Hospitalist Quality EIT

CLINICAL PRACTICE COUNCIL (CPC): Acute Health

CPC APPROVAL DATE: August 23, 2022

OTHER TEAM(S) IMPACTED: Falls EIT

References

- 1. <u>Cerreta F, Eichler HG, Rasi G. Drug policy for an aging population--the European Medicines Agency's geriatric</u> medicines strategy. N Engl J Med 2012; 367:1972.
- 2. <u>Lustenberger T, Talving P, Schnüriger B, et al. Impact of advanced age on outcomes following damage control interventions for trauma. World J Surg 2012; 36:208.</u>
- 3. <u>McGwin G Jr, MacLennan PA, Fife JB, et al. Preexisting conditions and mortality in older trauma patients. J</u> <u>Trauma 2004; 56:1291.</u>
- 4. <u>Keller JM, Sciadini MF, Sinclair E, O'Toole RV. Geriatric trauma: demographics, injuries, and mortality. J Orthop</u> <u>Trauma 2012; 26:e161.</u>
- 5. Jacobs DG. Special considerations in geriatric injury. Curr Opin Crit Care 2003; 9:535.
- 6. <u>Caterino JM, Valasek T, Werman HA. Identification of an age cutoff for increased mortality in patients with elderly trauma. Am J Emerg Med 2010; 28:151.</u>
- 7. <u>Labib N, Nouh T, Winocour S, et al. Severely injured geriatric population: morbidity, mortality, and risk factors. J</u> <u>Trauma 2011; 71:1908.</u>
- 8. Aschkenasy MT, Rothenhaus TC. Trauma and falls in the elderly. Emerg Med Clin North Am 2006; 24:413.
- 9. <u>Sterling DA, O'Connor JA, Bonadies J. Geriatric falls: injury severity is high and disproportionate to mechanism. J</u> <u>Trauma 2001; 50:116.</u>



- 10. Ganz DA, Bao Y, Shekelle PG, Rubenstein LZ. Will my patient fall? JAMA 2007; 297:77.
- 11. <u>Hartholt KA, Lee R, Burns ER, van Beeck EF. Mortality From Falls Among US Adults Aged 75 Years or Older,</u> 2000-2016. JAMA 2019; 321:2131.
- 12. Hoffman GJ, Liu H, Alexander NB, et al. Posthospital Fall Injuries and 30-Day Readmissions in Adults 65 Years and Older. JAMA Netw Open 2019; 2:e194276.
- 13. <u>Siracuse JJ, Odell DD, Gondek SP, et al. Health care and socioeconomic impact of falls in the elderly. Am J Surg</u> 2012; 203:335.
- 14. <u>Thompson HJ, McCormick WC, Kagan SH. Traumatic brain injury in older adults: epidemiology, outcomes, and future implications. J Am Geriatr Soc 2006; 54:1590.</u>
- 15. Schwab CW, Kauder DR. Trauma in the geriatric patient. Arch Surg 1992; 127:701.
- 16. Lee WY, Cameron PA, Bailey MJ. Road traffic injuries in the elderly. Emerg Med J 2006; 23:42.
- 17. Bonne S, Schuerer DJ. Trauma in the older adult: epidemiology and evolving geriatric trauma principles. Clin Geriatr Med 2013; 29:137.
- 18. <u>Schiller WR, Knox R, Chleborad W. A five-year experience with severe injuries in elderly patients. Accid Anal</u> <u>Prev 1995; 27:167.</u>
- 19. Demetriades D, Murray J, Martin M, et al. Pedestrians injured by automobiles: relationship of age to injury type and severity. J Am Coll Surg 2004; 199:382.
- 20. <u>Reinhold M, Bellabarba C, Bransford R, et al. Radiographic analysis of type II odontoid fractures in a geriatric</u> patient population: description and pathomechanism of the "Geier"-deformity. Eur Spine J 2011; 20:1928.
- 21. Bulger EM, Arneson MA, Mock CN, Jurkovich GJ. Rib fractures in the elderly. J Trauma 2000; 48:1040.
- 22. Switzer JA, Gammon SR. High-energy skeletal trauma in the elderly. J Bone Joint Surg Am 2012; 94:2195.
- 23. <u>Wibbenmeyer LA, Amelon MJ, Morgan LJ, et al. Predicting survival in an elderly burn patient population. Burns</u> 2001; 27:583.
- 24. <u>Lionelli GT, Pickus EJ, Beckum OK, et al. A three decade analysis of factors affecting burn mortality in the elderly.</u> <u>Burns 2005; 31:958.</u>
- 25. <u>Nagy KK, Smith RF, Roberts RR, et al. Prognosis of penetrating trauma in elderly patients: a comparison with younger patients. J Trauma 2000; 49:190.</u>
- 26. Bergeron E, Clement J, Lavoie A, et al. A simple fall in the elderly: not so simple. J Trauma 2006; 60:268.
- 27. Callaway DW, Wolfe R. Geriatric trauma. Emerg Med Clin North Am 2007; 25:837.
- 28. <u>Heffernan DS, Thakkar RK, Monaghan SF, et al. Normal presenting vital signs are unreliable in geriatric blunt</u> <u>trauma victims. J Trauma 2010; 69:813.</u>
- 29. Kirkpatrick JB, Pearson J. Fatal cerebral injury in the elderly. J Am Geriatr Soc 1978; 26:489.