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SPSS ver12

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Routine data base study

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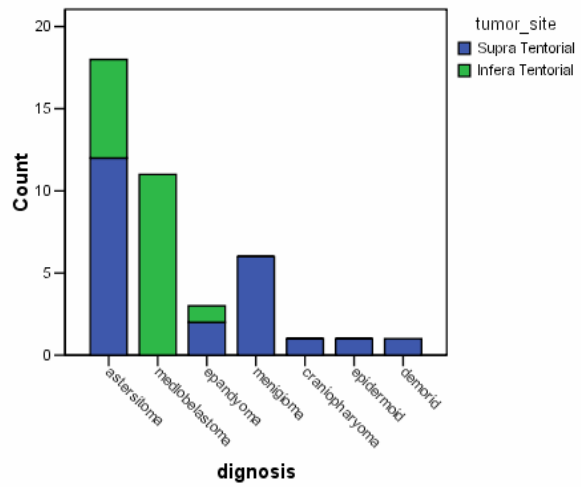
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نمودار ۱- توزیع کودکان مبتلا به تومورهای مغزی بر اساس محل تومور

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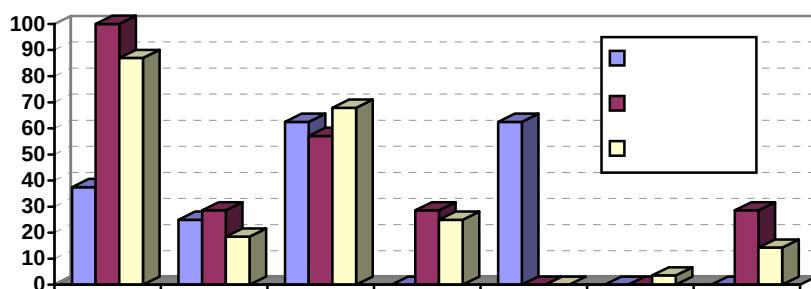
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جدول ۱ - توزیع کودکان مبتلا به تومورهای مغزی بر اساس سن و جنس و پاتولوژی تومورها

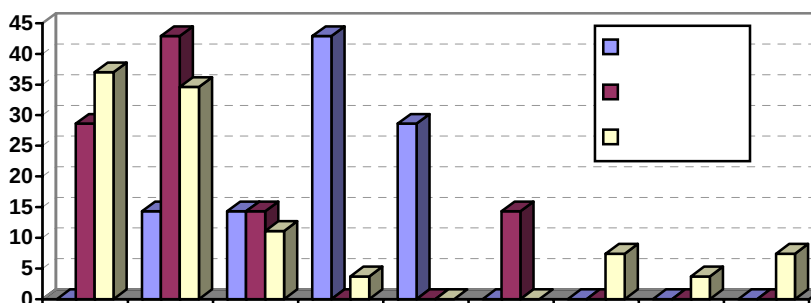
[illegible]

MRI %

CT Scan



نمودار ۲ - توزیع کودکان مبتلا به تومورهای مغزی بر اساس علایم در زمان بستری



نمودار ۳ - توزیع کودکان مبتلا به تومورهای مغزی بر اساس اولین علامت

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Gilles

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Hjalmars .

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Mori

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REFERENCES



1. Ries LAG, Eisner MP, Kosary CL, Hankey BF, Miller BA, Clegg L, et al. SEER Cancer Statistics Review, 1975-2001, National Cancer Institute. Bethesda, MD, seer.cancer.gov/csr/1975-2001, 2004.
2. Legler, JM, Ries, LA, Smith, MA, et al. Cancer surveillance series [corrected]: brain and other central nervous system cancers: recent trends in incidence and mortality. *J Natl Cancer Inst* 1999; 91:1382.
3. Surawicz, TS, McCarthy, BJ, Kupelian, V, et al. Descriptive epidemiology of primary brain and CNS tumors: results from the Central Brain Tumor Registry of the United States, 1990-1994. *Neuro-oncol* 1999; 1:14.
4. Wen, PY, Fine, HA, Black, PM, et al. High-grade astrocytomas. *Neurol Clin* 1995; 13:875.
5. Kadri H, Mawla AA, Murad L Incidence of childhood brain tumors in Syria (1993-2002). *Pediatr Neurosurg*. 2005 Jul-Aug;41(4):173-7
6. McKinney PA.. Brain tumours: incidence, survival, and aetiology. *J Neurol Neurosurg Psychiatry*. 2004 Jun;75 Suppl 2:ii12-7.
7. Elia-Pasquet S, Provost D, Jaffre A, Loiseau H, Vital A, Kantor G, et al. Incidence of central nervous system tumors in Gironde, France. *Neuroepidemiology*. 2004 May-Jun;23(3):110-7.
8. Cordera S, Bottacchi E, D'Alessandro G, Machado D, De Gonda F, Corso G. Epidemiology of primary intracranial tumors in NW Italy, a population based study: stable incidence in the last two decades. *J Neurol*. 2002 Mar;249(3):281-4.
9. Hauser P, Jakab Z, Lang O, Kondas O, Torok S, Garami M, et al. High incidence of brain tumors of childhood in Hungary between 1989 and 2001 *Med Pediatr Oncol*. 2003 Dec;41(6):590-1.
10. Davis, DL, Ahlbom, A, Hoel, D, Percy, C. Is brain cancer mortality increasing in industrial countries?. *Am J Ind Med* 1991; 19:421.
11. Modan, B, Wagener, DK, Feldman, JJ, et al. Increased mortality from brain tumors: a combined outcome of diagnostic technology and change of attitude toward the elderly. *Am J Epidemiol* 1992; 135:1349.
12. Smith MA, Freidlin B, Ries LA, Simon R. Trends in reported incidence of primary malignant brain tumors in children in the United States. *J Natl Cancer Inst*. 1998 Sep 2;90(17):1269-77.
13. Black WC. Increasing incidence of childhood primary malignant brain tumors-enigma or no-brainer? *J Natl Cancer Inst*. 1998 Sep 2;90(17):1249-51
14. Kaneko S, Nomura K, Yoshimura T, Yamaguchi N. Kaneko S, Nomura K, et al. Trend of brain tumor incidence by histological subtypes in Japan: estimation from the Brain Tumor Registry of Japan, 1973-1993. *J Neuro-oncol*. 2002 Oct;60(1):61-9.

15. McNeil DE, Cote TR, Clegg L, Rorke LB. Incidence and trends in pediatric malignancies medulloblastoma/primitive neuroectodermal tumor: a SEER update. *Surveillance Epidemiology and End Results. Med Pediatr Oncol.* 2002 Sep;39(3):190-4.
16. Jukich PJ, McCarthy BJ, Surawicz TS, Freels S, Davis FG. Trends in incidence of primary brain tumors in the United States, 1985-1994. *Neuro-oncol.* 2001 Jul;3(3):141-51.
17. Radhakrishnan, K, Mokri, B, Parisi, JE, et al. The trends in incidence of primary brain tumors in the population of Rochester, Minnesota. *Ann Neurol* 1995; 37:67.
18. Polednak, AP. Interpretation of secular increases in incidence rates for primary brain tumors in Connecticut adults, 1965-1988. *Neuroepidemiology* 1996; 15:51.
19. Rickert CH, Paulus W. Epidemiology of central nervous system tumors in childhood and adolescence based on the new WHO classification. : *Childs Nerv Syst.* 2001 Sep;17(9):503-11
20. Gilles FH, Sobel E, Leviton A, Hedley-Whyte ET, Tavaré CJ, Adelman LS, Sobel RA. Epidemiology of seizures in children with brain tumors. The Childhood Brain Tumor Consortium. *J Neuro-oncol.* 1992 Jan;12(1):53-68.
21. [No authors listed] The epidemiology of headache among children with brain tumor. Headache in children with brain tumors. The Childhood Brain Tumor Consortium. *J Neurooncol.* 1991 Feb;10(1):31-46.
22. Hjalmarsson U, Kulldorff M, Wahlqvist Y, Lannering B. Increased incidence rates but no space-time clustering of childhood astrocytoma in Sweden, 1973-1992: a population-based study of pediatric brain tumors. *Cancer.* 1999 May 1;85(9):2077-90
23. Rosenberg S, Fujiwara D. Epidemiology of pediatric tumors of the nervous system according to the WHO 2000 classification: a report of 1,195 cases from a single institution. *Childs Nerv Syst.* 2005 Nov;21(11):940-4. Epub 2005
24. De la Torre Mondragon L, Ridaura Sanz C, Reyes Mujica M, Rueda Franco F Central nervous system tumors in Mexican children. *Childs Nerv Syst.* 1993 Aug;9(5):260-5.
25. Kaatsch P, Rickert CH, Kuhl J, Schuz J, Michaelis J. Population-based epidemiologic data on brain tumors in German children. *Cancer.* 2001 Dec 15;92(12):3155-64.
26. Serafim A, Vilanova LC, Silva NS. Neurological evaluation of children and adolescents with brain tumor, based on ambulatory-oriented follow-up. *Arq Neuropsiquiatr.* 2001 Dec;59(4):849-5327.
27. Surawicz TS, McCarthy BJ, Kupelian V, Jukich PJ, Bruner JM, Davis FG. Descriptive epidemiology of primary brain and CNS tumors: results from the Central Brain Tumor Registry of the United States, 1990-1994. *Neuro-oncol.* 1999 Jan;1(1):14-25.
28. Davis FG, Kupelian V, Freels S, McCarthy B, Surawicz T. Prevalence estimates for primary brain tumors in the United States by behavior and major histology groups. *Neuro-oncol.* 2001 Jul;3(3):152-8.

29. Elia-Pasquet S, Provost D, Jaffre A, Loiseau H, Vital A, Kantor G, et al. Incidence of central nervous system tumors in Gironde, France. *Neuroepidemiology*. 2004 May-Jun;23(3):110-7.
30. Mori K, Kurisaka M. Brain tumors in childhood: statistical analysis of cases from the Brain Tumor Registry of Japan. *Childs Nerv Syst*. 1986;2(5):233-7.
31. Visudhiphan P, Chiemchanya S, Dheandhanoo D. Brain tumors in children at Ramathibodi Hospital. *J Med Assoc Thai*. 1989 Jan;72 Suppl 1:102-8.
32. Nomura S, Nishizaki T, Yamashita K, Ito H. Pediatric brain tumors in a 10-year period from 1986 to 1995 in Yamaguchi prefecture: epidemiology and comparison with adult brain tumors. *Pediatr Neurosurg*. 1998 Mar;28(3):130-4.
33. Shah SH, Soomro IN, Hussainy AS, Hassan SH. Clinico-morphological pattern of intracranial tumors in children. *J Pak Med Assoc*. 1999 Mar;49(3):63-5.