Carcinoma Prostate with Metastasis to Vertebral Column and Right Cerebellum Causing Sol and Hydrocephalus

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Abstract

A patient Mr. Satya Narain Chauhan, 67 yrs old male, diagnosed case of DM, Ca prostate presented with complaints of urinary retention and slurring of speech. On examination Mr. Chauhan is having left lower limb weakness-not able to stand/walk, midline lumbosacral tenderness present So, Mr. Chauhan was evaluated for spinal cord compression, and to rule out CVA. Patient had sclerotic metastasis in lumbosacral spine, and mass lesion in cerebellum.

Keywords: Carcinoma Prostate; Cerebellum; Hydrocephalus.

Introduction

Although vertebral and epidural metastasis are common in adenocarcinoma of prostate, intra cerebral, cerebellar and intramedullary metastasis occur in rare.

This is a case of adenocarcinoma prostate on chemotherapy with eisenmengers syndrome, which developed vertebral metastasis along with right cerebellar metastasis.

Patient was given palliative treatment comprising chemotherapy, radiation therapy, physiotherapy and planned for VP shunting in view of SOL in Right cerebellum with hydrochephalus.

Case Presentation

Presenting complaints of patient are abdominal discomfort and not able to pass urine, with H/o weakness of left lower limb.

H/o slurring of speech present.

No H/o chest pain, sob, cough, fever, loose motions, hematuria, burning maturation, increased frequency of maturation.

On Examination

Primary Survey

AIRWAY: Patent

Breathing

Respiration(RR/min): 20/MIN

Laboured: No

SpO2: 100% on Room Air

Circulation

Pulse: 72/MIN

BP: 130/90 MMHG

Peripheral Pulses: Yes

Temperature: 98.4 F

Disability

GRBS: 139mg/dl

Pupils:

Right eye: NSNR

Left eye: NSNR

Secondary Survey

Review of Systems

HEENT : Pallor +,No Icterus, Cyanosis, Tongue Moist.

CHEST: B/L AE+, no added sounds

CVS: S1S2 +, no added sounds

ABD: Soft, swelling in lower abdomen suggesting bladder distention+, BS+,

EXT: Warm, No Pedal Edema, No Dilated Veins

Neuro: Conscious, Coherent, Oriented

RT UL-TONE-N, POWER-5/5,

LEFT UL-TONE-N, POWER-5/5, RT LL-TONE-N, POWER-5/5, LEFT LL-TONE-N, POWER-4/5,

ALL FOUR LIMBS-NO Sensory Deficit, All Reflexes Mute, B/L Plantar Reflexes-Mute, Left Sided Dysdinokinesia +

Past History: Known case of prostate cancer, DM, large OSD-ASD with eisenmengers syndrome



A MRI spine screening and MRI brain plain was done which showed sclerotic vertebral metastasis in lumbosacral spine and Right cerebellum

Diagnosis

This is a clear case of carcinoma prostate with vertebral metastasis and right cerebellar metastasis causing a space occupying lesion with hydrocephalus.

Treatment

Patient admitted to ICU and seen by oncology and neurosurgery team, in view of other comorbidities like DM, large OSD-ASD with eisenmenger syndrome, planned for symptomatic, palliative treatment including chemotherapy, radiation therapy along with physiotherapy and VP shunting. Patient was feeling better after palliative and physiotherapy.

References

1. J. McLoughlin, J.C. Gingell, G. Harper' and A. Hinchliife, Cerebellar manifestations of prostatic carcinoma, Postgrad Med J 1992;68:584-586

- 2. Andrew Lawton, B.A.,1 Gary Sudakoff, M.D.,2 Lisa C. Dezelan, PA-C,3 and Nancy Davis, M.D., Presentation, Treatment, and Outcomes of Dural Metastases in Men with Metastatic Castrate-Resistant Prostate Cancer: A Case Series, J Palliat Med. 2010 Sep; 13(9): 1125–1129.
- 3. McMurtry CT1, McMurtry JM., Metastatic prostate cancer: complications and treatment, J Am Geriatr Soc. 2003 Aug;51(8):1136-42.
- 4. Clark PE1, Torti FM.Prostate cancer and bone metastases: medical treatment, Clin Orthop Relat Res. 2003 Oct; (415 Suppl): S148-57.
- Mario A. Eisenberger, Leonard Michael Glode, Case Reports on Prostate Cancer, Rev Urol. 2004;6(Suppl 7): S39–S45.
- 6. Nagata M1, Ueda T, Komiya A, Suzuki H, Akakura K, Ishihara M, Tobe T, Ichikawa T, Igarashi T, Ito H,Treatment and prognosis of patients with paraplegia or quadriplegia because of metastatic spinal cord compression in prostate cance,Prostate Cancer Prostatic Dis. 2003;6(2):169-73.
- 7. Smith EM1, Hampel N, Ruff RL, Bodner DR, Resnick MI,Spinal cord compression secondary to prostate

- carcinoma: treatment and prognosis., J Urol. 1993 Feb;149(2):330-3.
- 8. Schmidt MH, Klimo P Jr, Vrionis FD., Metastatic spinal cord compression. J Natl Compr Canc Netw. 2005 Sep;3(5):711-9.
- 9. Zengbao Wu, Siyi Xu, Chunlong Zhong, Yang Gao, Qiang Liu, Yan Zheng, Yang Guo, Yong Wang, Qizhong Luo, And Jiyao Jiang. Intramedullary
- conus medullaris metastasis from prostate carcinoma: A case report and review of the literature Oncol Lett. 2014 Mar;7(3):717–720. Published online 2014 Jan 16. doi: 10.3892/ol.2014.1808.
- 10. Moul JW, Davis R, Vaccaro JA, Sihelnik SA, Belville WD, McLeod DG., Acute urinary retention associated with prostatic carcinoma, J Urol. 1989 Jun;141(6): 1375-7.