

DR.K. SENTHILKUMAR
FINAL YEAR POST GRADUATE
CHENGALPET MEDICAL COLLEGE

HISTORY

NAME : SHANKAR

• AGE : 44

SEX : MALE

OCCUPATION: LABOURER

INFORMANT : WIFE (reliability good)



- C/O fever for 1 week
- C/o cough for 3 days

H/O PRESENTING COMPLAINTS

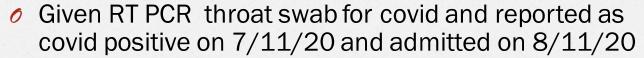
- Presented with the complaints of fever for the past 1 week
 - sudden onset
 - continuous
 - mild grade
 - not associated with chills, rigor
 - not @ evening rise of temperature
 - not @ sweating
 - no diurnal variation

c/o cough for the past three days

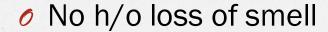
- intermittent
- non productive
- not @ hemoptysis
- no diurnal variation

H/o headache +

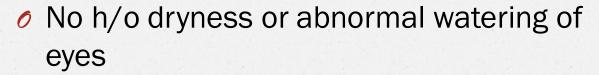
h/o breathlessness on exertion for the past 3 days .



- His wife noticed he was struggling to do his routine activities on 8/11/20 morning, she asked him regarding any blurring of vision but he denied his loss of vision and told he was alright.
- No h/o difficulty in seeing objects as history given by patient.
- His wife noticed sometimes he was bumping into objects while walking
- Patient able to move his eyeball in all direction



- No h/o eye pain / double vision
- No h/o dropping of eyelids
- No h/o difficulty in chewing the food
- No h/o difficulty in appreciating the sensation over the face
- No h/o deviation of angle of mouth to right or left side



- No h/o drooling of saliva while drinking or eating
- No h/o hard of hearing/tinnitus/vertigo
- No h/o difficulty in swallowing the foods
- No h/o choking sensation while eating
- No h/o hoarseness of voice

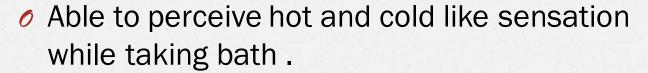
- No h/o difficulty in turning side to side
- No h/o difficulty in protruding tongue

MOTOR SYSTEM:

- No h/o weakness of both upper and lower limbs
- No h/o flail ness or thinning of limbs
- Able to hold objects and comb the hair
- Able to hold slippers and walk upstairs

SENSORY SYSTEM:

Able to perceive cloth sensation



- o no h/o bowel and bladder disturbances
- No h/o unsteadiness while standing
- No h/o speech disturbances
- No h/o involuntary movements
- No h/o speech or memory disturbances
- No h/o loss of consciousness

- No h/o behavioural or emotional disturbances
- No h/o sleep disturbance
- No h/o vomiting
- No h/o trauma



- Patient was recently diagnosed as type2 diabetes mellitus 3 months back not on medication
- No other co morbid illness of CVA / CAD / RHD / TUBERCULOSIS / SEIZURE DISORDER
- No other significant treatment history



- Normal bowel bladder habits
- Chronic alcoholic
- Non smoker
- No substance abuse

SUMMARY

A 44 years old male patient who was diagnosed as covid 19 positive presented with the complaints of fever and cough, wife noticed that patient had vision loss which was denied by the patient with no other cranial nerves, motor, sensory or autonomic involvement.



- Moderate built and nourished
- Conscious
- Oriented to time & place
- No pallor/ icterus / cyanosis/ clubbing/lymphadenopathy/pedal edema
- Jvp not elevated
- No neurocutaneous /tuberculosis/ischemic heart disease markers.

- Ht-168 cms
- Wt 56 kgs
- Bmi -19.85kg/m2
- Vitals: BP 120/80 mmhg, measured in right arm of supine position. No postural variation in BP

- Pulse rate 82/min regular rhythm, normal volume, no specific character, no radio femoral or radio radio delay
- RR 18cycles / min
- Temp -98.4 degree celsius
- Spo2 96 % in room air



- HIGHER MENTAL EXAMINATIONN :
- Right handed person
- Conscious
- Oriented to time ,place & person
- Memory immediate, recent and remote intact
- Language comprehension, fleuncy and repetition intact
- No emotional liability



CRANIAL NERVE	RIGHT	LEFT
I) OLFACTORY	Able to perceive smell	Able to perceive smell
II) OPTIC NERVE 1)visual acuity	Able to appreciate hand eye movement	Not able to appreciate
2)field of vision	absent	Absent
3)colour vision	Absent	Absent

CRANIAL NERVE	RIGHT	LEFT
4) Fundus		
Media	clear	Clear
disc / vein	Normal	Normal
macula (foveal reflex)	Present	Present

9	3, 4 & 6: 1) extra ocular movements	Full range	Full range	٨
	2)direct & indirect light reflex	Present	Present	
	3)Ptosis	No	No	
	4)accommodation reflex	Not able to perform	Not able to perrform	
	TRIGEMINAL NERVE 1)sensation over face & buccal mucosa	Present	Present	
	2)clenching of teeth	No deviation	No deviation	
	3)corneal & conjunctival reflex	Present	Present	
	4) iourioule	Aboont	Abaant	

9	FACIAL NERVE 1)Taste in ant 2/3 of tongue	Present	Present
	2) wrinkling of forehead		
	3)able to open both eyes against resistance	Yes	Yes
	4)deviation of angle of mouth	No deviation	No deviation
	5)blowing of cheeks & holding of air in mouth	able to do	able to do
	7)corneal & conjunctival reflex	Present	Present
	8)salivation & lacrimation	Present	Present

VESTIBULO-COCHLEAR NERVE			8
1)Rinne's test(BC>AC)	AC > BC	Ac > BC	
2)Weber's (lateralisation)	No lateralisation	No lateralisation	
GLOSSOPHARYNGEAL & VAGUS: 1)Sensation over post 1/3 of tongue	Present	Present	
2)position of uvula	Midline	Midline	
3)palatal & pharyngeal reflex	Present	Present	
SPINAL ACCESSORY NERVE: 1)Shrugging of shoulder against resistance	Able to do	Able to do	
2)turning head against	Able to do	Able to do	





- No Generalised / localised muscle wasting
- BULK

	CIRCUMFEREN CE	RIGHT (CM)	LEFT(CM)
UPPER LIMB	Mid arm	25	23.5
	Mid forearm	21.5	20.5
LOWER LIMB	Mid thigh	35.5	35.5
	Mid leg	27	27





	RIGHT	LEFT
Tone:		
UPPER LIMB	Normotonia	Normotonia
LOWER LIMB	Normotonia	Normotonia
Power:	5/5 in all joints of both upper and lower limb	5/5 in all joints of both upper and lower limb
Hand grip	100 %	100 %

REFLEX

SUPERFICIAL	RIGHT	LEFT
Corneal (5,7)	Present	Present
Conjunctival (5,7)	present	present
Pharyngeal (9,10)	Present	Present
Palatal(5,10)	Present	Present
Abdominal (T8-T12)	present	present
Cremastric (L1,L2)	present	present
Plantar(L5,S1	Withdrawal	withdrawal

	4
- 1	

DEEP	RIGHT	LEFT
Jaw jerk(C5)	absent	absent
Biceps(C5,C6)	Present	Present
Triceps(C6,C7)	Present	Present
Supinator(C5,C6)	Present	Present
Knee (L2,L3,L4	Present	Present
Ankle(S1)	Present	Present

Finger flexor reflex, Hoffmann's reflex, Wartenberg's reflex: present

- Sensory system :
- Touch ,pain ,temperature able to appreciate .
- Pressure ,vibration and position sense present
- Tactile localisation ,two point discrimination streognosis and graphesthesia -intact

Bowel bladder : Normal bowel bladder function.

Cerebellum:

- Finger nose test intact
- Finger finger nose test intact
- Dysdiadochokinesia intact
- Heel knee test able to perform
- Speech normal

- No dysmetria ,nystagmus
- No intentional tremor
- No pendular knee jerk
- No titubation
- No rebound phenomenon

MENINGES:

- No neck rigidity
- Kernig & brudzinski sign negative

- Romberg's test negative
- Gait normal
- Spine no tenderness
- Peripheral nerve no thickening or tenderness

Other systems

- OCVS S1 S2 heard, no murmur
- RS Bilateral air entry +b/ I crepts +
- PER ABDOMEN: Soft, no organomegaly

Provisional diagnosis

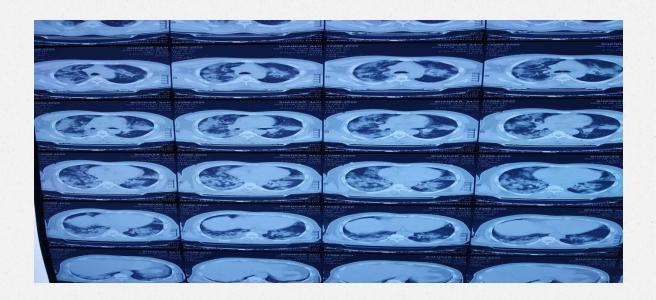
COVID 19 POSITIVE / VIRAL PENUMONIA / ACUTE CVA WITH BILATERAL SUDDEN PAINLESS LOSS OF VISION



- BILATERAL OCCIPITAL LOBE LESION
- CENTRAL RETINAL VEIN / ARTERY OCCLUSION
- CENTRAL SEROUS RETINOPATHY
- RETINAL DETACHMENT
- VITREOUS OR RETINAL HEMORRHAGE
- ANTON SYNDROME
- CHARLES BONNET SYNDROME



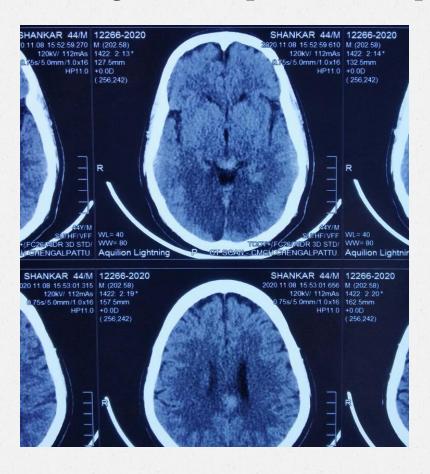
CT chest :bilateral ground glass opacities with 50 - 70 % lung involvement s/o covid pneumonia



TAMILNADU MEDICAL SERVICE CORPORATION LIMITED GOVERNEMENT MEDICAL COLLEGE HOSPITAL, CHENGALPATTU. C.T.SCAN CENTRE

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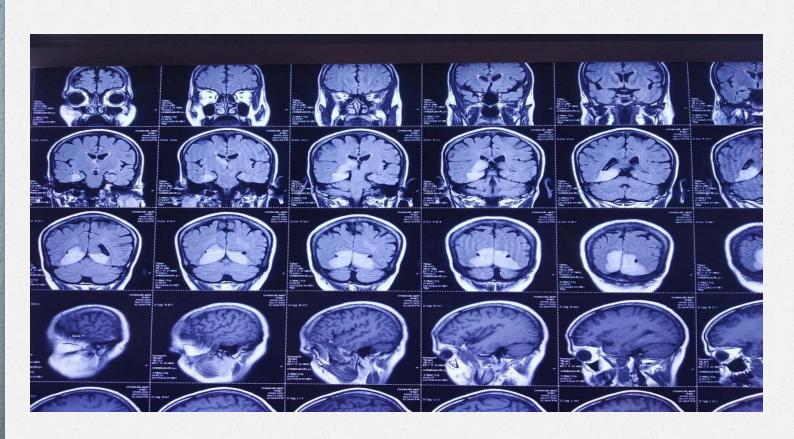
CT brain -- bilateral posterior cerebral artery infarct (right - complete, left - partial)

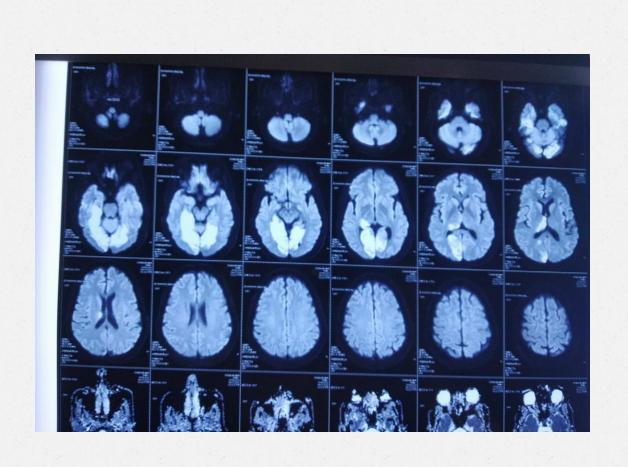


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C.T.SCAN CENTRE	
Name: Shankas Age/56X. Sersal axial and sections of the brain from based skull to vertex (with/without IV contrast)	
Eyeballs optic nerves, orbital fat extra ocular muscles appear normal. Paranasal (ethomoid, sphenoid, frontal sinuses) appear normal. POSTERIOR FOSSA:	
Medulla oblengata, pens and midbrain agest normal. Cerebellar hemisphere and vermis appear normal. SELLA:	
Setta : Selfa and suprasellar regions appear normal: Basaf cistems appear normal: Ventricular System appears normal	
CEREBRUM:	
Corebral sulci and gyri appear normal. External capsule, lentiform nucleus, internal capsule, caudate nucleus and thalamus appear normal. Corona radiata and centrum semiovale appear normal. No evidence of SOL. No evidence of hemorrhage / infarct. No evidence of midline shift.	
BONES:	
Bones of skull appears normal Extra cranial soft tissues appear normal.	
IMPRESSION: No significant abnormalities detected in brain	
BIL PEA derkitory infanct	
[RADIOLOGIST]	
Dr. C. CHANDII YAN M.B.B.S. D. M.R.D., Regd. No: 79103, Radiologist, Govt. Chengalpattu Medical College & Hospital Chengalpattu - 803 001	

MRI brain – acute infarct bilateral occipital region, acute infarct right thalamus







NAME: Mr. SHANKAR REF.DR: AGE & SEX DATE : 44 / M : 17.11.2020

MR IMAGING OF BRAIN

TECHNICAL DATA

Without IV MR contrast media administration. Spin echo. Fast spin echo, Gradient echo and inversion recovery techniques. SE T1W, FSE T2W GREW sagistias. T1WI, STIR, FSE T2W coronal, FSE T2W axis.

OBSERVATION

Acute infarct bilateral occipital region.

Acute infarct right thalamus.

Cerebellar hemispheres, vermis and peduncles are normal in morphology and signal. The medulla, pons and mid brain show normal MR features.

The basal (including CP angle), supra/para sellar and sylvian cisterns are normal. The fourth, third and the lateral ventricles are of normal size, shape and position.

The thalami, basal ganglia and internal capsules are normal on both sides. The pituitary gland and optic chiasm are normal.

The orbits and their contents appear normal.

MRA: Thinning of bilateral posterior cerebral artery. と7レ

MRV: Normal Study.

Orbital Screening: Normal Study.

IMPRESSION:

Bilateral acute posterior cerebral artery infarct.

Dr. ANNALAKSHMI Radiologist

Dr. R. ANNALAKSHMI DMRD Reg No: 67037 Radiologist (Senior Resident) Chengalpattu Medical College and Hospital Dr. KASIVISALAKSHI

- D dimer more than 10000 mg/ml
- S.ferritin 995.67mg/ml
- OCRP 12
- o PT 20.36
- o INR 1.2
- ORBS -304

• ECHO:

NO RWMA

EF-60 %

NORMAL STUDY

PERIPHERAL SMEAR: normal study

S.HOMOCYSTEINE: 17micromol/litre

OCBC:

TC-10,600

Hb- 14.3

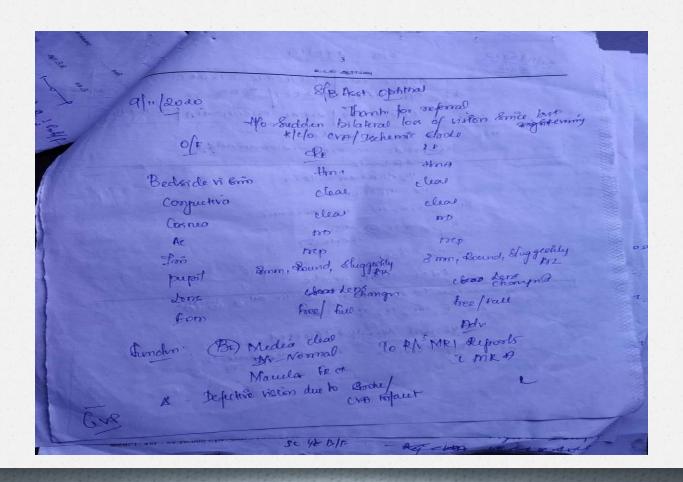
Plt -2.5 lakhs

Neutrophil - 80

Lymphocyte - 05

NIr ratio of 16

Opthal opinion



Revised diagnosis

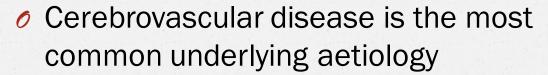
Covid 19 positive / viral pneumonia /Acute
 CVA / ischemic stroke / covid induced
 bilateral PCA infarct



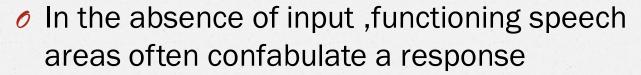
ANTON SYNDROME



- Visual anosognosia
- Rare neurological condition
- Syndrome was named after Anton and Babinski in 1914
- Hypoperfusion of occipital cortex is the usual cause of cortical blindness.
- Commonly results from ischaemic vascular injury but also from haemorrhage and other causes.



- Damage to the visual association cortex (broadmann area 18 & 19) and the primary visual cortex (broadmann area 17) is responsible for cortical blindness.
- Damaged visual areas are effectively disconnected from functioning areas such as speech and language areas.



Recovery of visual function depends on the etiology and occur in some cases of hypertensive encephalopathy, cerebral hypoperfusion.



CASE REPORT

Bilateral cortical blindness with Anton-Babinski syndrome in an elderly Nigerian woman: Challenges for tertiary prevention

Obehi Aituaje Akoria, Francis Ikechukwu Enebe¹

Geriatrics Unit, Department of Medicine, University of Benin Teaching Hospital, [†]Department of Medicine, University of Benin Teaching Hospital, Benin Cyt, Nigeria

ARSTRACT

Anton-Babinski syndrome (Anton's syndrome) is well described in the scientific literature even though it is a rare neurological condition. Most publications have highlighted the anatomy, neurophysiology, and pathology of visual anosognosia, which is the hallmark of the syndrome. We are not aware of any published report of cortical bilindness with Anton's syndrome from Africa. We report a catastrophic complication of severe hypertension in an elderly Nigerian woman who was on follow-up for stroke, chronic heart failure, diabetes mellitus, and glaucoma. She developed bilateral cortical bilindness with Anton's syndrome as a complication of severe hypertension, following 3 weeks of missed medications. This report highlights some challenges of tertiary prevention in this elderly woman without health insurance, who before becoming blind, had been largely dependent on family members' goodwill for her medical care.

Keywords: Anton's syndrome, cortical blindness, elderly, Nigeria, tertiary prevention

INTRODUCTION

Anton's syndrome is bilateral cortical blindness with visual anosognosia and visual confabulation. In the first published description of someone who was blind but denied it was that of a nobleman reported by Montaigne in the 16th century. Cabriel Anton's description of the syndrome was published in 1899 with descriptions of three patients who had visual, hearing, and motor impairments, respectively, but who denied these deficits. It gosph François Babinski in 1914 named this phenomenon of blind hemiplegic patients who were unaware of their blindness, "anosognosia." Although the syndrome has been

Corresponding Author: Dr. Obehi Aituaje Akoria, Geriatrics Unit, Department of Medicine, University of Benin Teaching Hospital, P. O. Box 5212, Benin City, Nigeria. E-mail: obakoria@yahoo.com

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	Website: www.smjonline.org
	DOI: 10.4103/smj.smj_31_17

named after Anton and Babinski, it had earlier been described by Wernicke in 1874 and by Westphal in 1882.91

Clinical diagnosis of Anton's syndrome is based on five criteria: (i) failure to blink in response to threat, (ii) loss of light and dark visual impulses, (iii) preservation of pupillary and accommodation reflexes, (iv) normal fundi, and (v) preserved extraocular movements. The absence of global cognitive deficits was central in Anton's original description of the syndrome. [4]

Hypoperfusion of the occipital cortex is the usual cause of cortical blindness. This commonly results from ischemic vascular injury^[6] but could also result from hemorrhage and various other causes, including advanced glaucoma.^[7] Cerebrovascular disease is the most common underlying etiology that is reported in association with Anton's syndrome.^[7]

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Juan José Romero Carvajal^{1*}, Augusto Alejandro Arias Cárdenas¹, Germán Zamora Pazmiño², Patricio Abad Herrera³

¹Resident of Internal Medicine Department, Hospital Metropolitano, Universidad Internacional del Ecuador, Quito, Ecuador
²Department of Neuroradiology, Hospital Metropolitano, Quito, Ecuador
³Department of Neurology, Hospital Metropolitano, Quito, Ecuador
Email: homero-40@hotmail.com

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ABSTRACT

Visual anosognosia or Anton-Babinski syndrome is a rare neurological condition related to cortical blindness. The patients deny their blindness and affirm adamantly that they are capable of seeing. The clinical presentation includes confabulations and sometimes confusional states. In this article we report two patients with anosognosia related to ischemic stroke in two different sets of ctiology and pathogenesis. We describe the major clinical manifestations of this syndrome and review the current medical literature. Two patients were identified, a 96-year-old male with visual anosognosia secondary to a right posterior cerebral artery thrombosis, and a 56-year-old female with the same syndrome but related to central nervous system angiitis in relation with multiple sclerosis and Hashimoto's thyroiditis. Visual anosognosia or Anton-Babinski syndrome is a rare neurological condition. However the ischemic vascular cerebral disease is a frequent etiology. We believe that this is the first report of this syndrome in relation to angiitis with a clear autoi mmune pathogenesis.

Keywords: Visual Anosognosia; Cortical Blindness; Anton-Babinski Syndrome; Stroke; MRI

1. Introduction

Cortical blindness matches several clinical criteria [1]: loss of all visual sensations, loss of menace reflex, preservation of pupillary reflexes, a normal fundoscopic examination and preservation of ocular movements. Visual anosognosia, or Anton-Babinski syndrome is a rare complication of cortical blindness, where the patients deny their visual deficit [2]. Damage of the visual association cortex has been thought as one of the main causes explaining the loss of awareness of the visual deficit [3], along with damage of other pathways connecting the visual cortex with the systems that process the information received from the senses. Ischemic cerebrovascular disease causing cortical blindness is the most common etiology of this syndrome [4].

We herein describe two cases and a review of the literature about the visual anosognosia.

*Corresponding author.

2. Case Presentation

2.1. Patient #1

A 96-year-old man was admitted to Emergency Room with severe headache and sudden loss of vision. He had a cutaneous carcinoma resected about three years ago, and he was currently on treatment for hypertension.

On admission he was awake and oriented. Blood pressure was 180/100, and he had a mild paresia on his left arm. Ophthalmologic exam confirmed a severe vision loss, ocular movements, as well as photo motor reflex, were preserved. Fundoscopic examination revealed changes secondary to chronic hypertension. The patient sustained that he was able to see, despite the objective evidence of vision loss.

The diffusion images on the brain MRI of the brain demonstrated ischemic areas on the occipital lobbes, specially on the right side (Figure 1). A brain CT angiography showed a stenotic segment on the posterior right cerebral artery (Figure 2).

THANK YOU



Anton-Babinski syndrome

Anton's syndrome (cortical blindness plus denial of blinding)