Name: Mr. Kannan

Age: 40 years

Sex: Male

Address: Tambaram

Occupation: Works in a fruit shop

Socio Economic Class: Upper Lower class

Chief Complaints:

Pain in the left leg for the past 2 years more for the past 2 months

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History of presenting illness

The patient was apparently normal 2 years back after which he developed

PAIN - In his left leg

For 2 years more for the past 2 months

In the calf and foot region

INTERMITTENT - Brought about by walking

Cramping and Excruciating type of pain

Not radiating, Not referred

Aggravated on walking up stairs

Initially relieved on standing and now on rest

BOYD'S CLASSIFICATION – GRADE 3

OF INTERMITTENT CLAUDICATION

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Claudication distance and progress of claudication

- Initially pain occurred only after 2 kilometers of walking which gradually reduced and now pain occurs if the patient walks 10 feet

No H/O rest pain

No H/O effect of warmth or cold on the pain NO H/O suggestive of local causes of pain such as trauma to the legs, swelling of legs, fever

No H/O tingling or numbness sensation No H/O ulcers over the leg No H/O blackish discolouration of any part of the leg



No H/O suggestive of superficial phlebitis such as pain, swelling, redness, cord like thickenings along the course of veins

No H/O suggestive of Raynaud's Phenomenon such as attacks of pain, pallor, bluish or dusky red discolouration on exposure to cold No H/O blackish discolouration of finger tips after such attacks

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No H/O suggestive of occlusive arterial disease elsewhere in the body:

No H/O Chest pain , palpitations, breathlessness

No H/O Black outs , loss of consciousness, weakness of limbs

No H/O Blurring of vision

No H/O Abdominal pain

No H/O Impotence

Past history

- For the past 2 years, the patient has been visiting private clinics and has taken native medications but symptoms did not resolve
- No H/O similar complaints in the past
- No H/O diabetes mellitus , hypertension , tuberculosis asthma ,epilepsy ,jaundice
- No H/O Cardiac diseases, cerebrovascular accidents, hyperlipidemia, collagen diseases
- No H/O previous hospitalisation /surgery



Personal history

- Patient consumes non-vegetarian diet
- Normal bowel and bladder habits
- H/O Smoking from the age of 13 years
 No of years of smoking: 27 years
 Smokes 3 packets of cigarettes per day

SMOKING INDEX: 810

PACK YEARS INDEX: 81

- H/O Alcohol consumption for the past 1 year 180 ml per day
- No H/O drug abuse



Allergy history

No H/O allergy to any food or drugs

Family History

No H/O Similar complaints in the family

No H/O suggestive of atherosclerosis in the family

Summary

A 40 year old male, who is a chronic smoker presented with complaints of excruciating pain in calf and foot during walking which is relieved by rest of BOYD'S GRADE 3 with history suggestive of progressive claudication.

The probable diagnosis is peripheral vascular disease involving femoral, popliteal, tibial arteries.

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General examination

After getting consent from the patient, the general examination was done.

Conscious, oriented, moderately built and nourished

No pallor

No icterus

No cyanosis

GRADE 1 clubbing present

No pedal edema

No generalised lymphadenopathy

SIGNS OF ATHEROSCLEROSIS - NO Arcus senilus, no transverse ear crease, no xanthomas



Vital signs

Pulse rate: 82 /min, regular in rhythm, normal in volume and character, no vessel wall thickening, no radioradial/radiofemoral delay

Dorsalis pedis, posterior tibial and popliteal pulsations absent in the left lower limb

Respiratory rate: 16/min, abdominothoracic

Blood pressure: 110 /70 mm hg measured in left upper arm in sitting posture



Examination Of Lower Limbs

After explaining the procedure and getting consent, patient was exposed from mid thigh and examination was done under bright light

INSPECTION – patient in supine posture with both the legs kept side by side

Attitude: the limbs are extended at both hip and knee joint

No deformity present

Muscle wasting present in the calf region in left leg

No redness, swelling along the course of superficial veins

NO COLOUR CHANGE VISIBLE



Examination of lower limbs

Signs of peripheral ischemia: present in left limb

- -There is diminished hair over the left limb calf
- -Thinning of skin present
- -There is Loss of subcutaneous fat
- -Shininess present
- -Trophic changes in nail: brittle nail present
- -No ulceration in pressure areas like heel, malleoli, ball of foot, tip of toes

A scar of 5 x 4 cm is present over the inner aspect of calf in the right leg, scar is healthy — history suggested as silencer burn

Left



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Right





Tests on inspection

GUTTERING OF VEINS: present on elevation of the limbs

BUERGER'S POSTURAL TEST: was not able to appreciate the pallor and pink appearance as the patient was dark skinned

CAPILLARY FILLING TIME : was not able to appreciate the pallor and pink appearance as the patient was dark skinned

VENOUS REFILLING: in the left lower limb veins collapsed at 30 degree and refilling was slower when compared to the right side



EXAMINATION OF LOWER LIMBS

NO GANGRENE OR ULCER PRESENT OVER BOTH THE LOWER LIMBS

PALPATION

Skin temperature: skin is warm over both the lower limbs except for the left foot which is cold

No tenderness present

No swelling ,tenderness , cord like thickening of veins



Tests on palpation

Capillary refilling:

There was delay in the time taken for blanched toe of left lower limb to turn pink when compared with the right side

Venous refilling (harvey's sign):

Refilling of vein segment slow in the left lower limb when compared to the right side

Crossed leg test (FUCHSIG'S TEST): was not well appreciable



Examination of Peripheral pulses

	RIGHT	LEFT
Superficial temporal artery	++	++
Carotid artery	++	++
Brachial artery	++	++
Radial artery	++	++
Femoral artery	++	+
Popliteal artery	++	-
Posterior tibial artery	++	_
Dorsalis pedis	+	-



Examination Of Joints

Movements of	Right	Left
Interphalangeal joint	N	N
Metatarsophalangeal joint	N	N
Ankle joint	N	N
Knee joint	N	N
Hip joint	N	N



Examination of nerves

RIGHT	LEFT
31cm	28cm
normal	normal
<i>5/5</i>	5/5
normal	normal
flexion	flexion
+	+
+	+
+	+
+	+
	31cm normal 5/5 normal flexion + + +



Examination of lymph nodes

Inguinal lymph nodes are not enlarged



Auscultation

No bruit
No murmurs
Reactive hyperemia test:
To be done



Systemic examination

Respiratory system:

Normal vesicular breath sounds heard . No added sounds

Cardiovascular system:

S1 S2 heard. No murmurs

Central nervous system:

No focal neurological deficit

Abdomen:

Soft, non tender, no organomegaly, no free fluid, hernial orifices free, external genitalia normal

Spine and cranium: normal



Diagnosis

Compensatory Peripheral vascular disease of left lower limb in the form of Thromoangiitis Obliterans (Buerger's disease) with probably Femoropopliteal occlusion (type 3)without any complications.

Differential diagnosis:

Atherosclerosis

Vasculitis



Management

Investigations

Baseline: Complete blood count – TC, DC, ESR

Hb%, blood grouping and typing, BT,CT

Blood sugar, urea, serum creatinine

Urine routine: albumin, sugar, deposits

X ray chest, ECG

Serology: HIV, VDRL, HBsAg



Specific investigations

- -Blood sugar: fasting, post prandial, HbA1C
- -LIPID PROFILE
- -Anti nuclear Ab , Anti Phospholipid Ab, homocysteine levels
- -DOPPLER ultrasound
- -DUPLEX SCAN
- -Angiography
- -BROWN'S VASOMOTOR INDEX



Treatment

Non surgical methods

SMOKING ABSTINENCE

MEDICAL MANAGEMENT

ANALGESICS-Tramadol-50mg TID Ketorolac-20mg TID

PENTOXYFILLIN-400mg TID

Used to treat intermittent claudication.

Improves blood flow through the peripheral blood vessels by increasing flexibility of RBC, decreasing platelet aggregation and thrombus formation, reduces blood viscosity.



Beurger's position Beurger's exercise Heel raise: to decrease load on calf muscles