

Tel: (65) 6222 3322 Faio (65) 6224 9221 20 College Road Academia Singapore 169856 www.sgh.com.sg

Reg No 198703907 Z

Our Ref: MR/ 12239/2017 Lawyers (Request No. 201715118)

20 Oct 2017

Specialist Medical Report for Alexander Natarajan S7768438G

The above-mentioned was admitted from 4th April to 3rd May 2016 after being involved in a road traffic accident, whereby his motorcycle was hit by a car sideways. His main injuries were over the left foot where he sustained the following:-

- 1) 1st metatarsophalangeal joint (MTPJ) fracture-dislocation with comminuted fracture of the proximal phalanx and metatarsal head
- 4th metatarsophalangeal fracture dislocation with comminuted fracture of the metatarsal head
- Degloving injury involving the entire heel pad, extending to the medial foot and distal plantar forefoot.
- 4) 2nd middle phalanx fracture
- 5) 3rd proximal phalanx fracture
- 6) 5th metatarsal head and proximal phalanx fracture
- 7) Posterior heel laceration distal to tendoachilles insertion

He underwent left foot excisional debridement, k-wiring of left 1st MTPJ and 4th MTPJ, toilet and suture of left 4th MTPJ laceration on 4th April 2016.

He subsequently underwent these further procedures during the same admission:-

- 1) Left foot wound debridement and reapplication of VAC dressing on 7th April 2016
- 2) Left foot wound debridement and application of VAC dressing on 12th April 2016
- Free rectus flap and split skin grafting to left foot wound on 19th April 2016 (by Department of Plastic Surgery)

He was discharged well and seen at the orthopaedic specialist outpatient clinic on 5th May, 19th May, 13th June and 11th July. At the last review his xrays showed good fracture healing and he was discharged from follow-up. When I saw him on 22nd September 2017 for the purpose of this specialist report, he still had some pain in the 1st MTPJ; however, he was able to ambulate well. His ankle and subtalar joints had full range of movement. His 1st MTPJ was stiff with dorsiflexion of 10 degrees and plantarflexion of 0 degrees. His condition has improved since the time of the accident. However, it is unlikely to improve further. He will not need any more surgical interventions or follow-ups.



Dr Kevin Koo

Consultant Orthopaedic Surgeon Department of Orthopaedic Surgery

PATIENTS. AT THE HE ♥ RT OF ALL WE DO."

SingHealth Duke-NUS Academic Medical Contre

Singapore General Hospital - NX Women's and Children's Hospital - Sengkang Health National Cancer Centre Singapore - National Dental Centre Singapore - National Heart Centre Singapore National Neuroscience Institute - Singapore National Eye Centre - SingHealth Polyclinics - Bright Vision Hospital





Tel: (65) 6222 3322 Fax: (65) 6224 9221 20 College Road Academia Singapore 169856 www.sgh.com.sg

Reg No 198703907 Z

17 January 2018

OUR REF: MR/00033/2018 (REQUEST NO. 201800046)

SPECIALIST REPORT ON ALEXANDER NATARAJAN NRIC NO. SG 7768438

The abovenamed gives a history of being a motor cyclist involved in accident with a car on 4/4/2016.

He was admitted via A & E Dept SGH to Orthopaedic ward SGH with the following injuries:

- 1) Multiple displaced fractures of left foot involving proximal and distal phalanges and lateral sesamoid of big toe, proximal, middle and distal phalanges of 2nd toe, proximal phalanges of third and fifth toes and heads of fourth and fifth metatarsal.
- 2) Degloving injury to left foot.

He had the following surgeries:

1) 04/04/16 Debridement and K-wiring of foot fracture

2) 12/04/16 Debridement of wound

3) 19/04/16 Free rectus flap and skin graft

He recovered uneventfully and was discharged on 3/5/2016.

He has been on regular outpatient review. His wounds healed fully on 4/7/2016. On review on 25/8/2017 there was a small superficial ulceration of his skin graft.

On 8/1/2018 review his left foot wound healed fully.



OPINION

- He has recovered fully from his road traffic accidents sustained on 4/4/2016.
- He is able to ambulate and have appropriate footwear.
- As his foot/ankle wound required a muscle flap and skin graft for healing, he
 may have episodes of ulceration of the skin graft.
- 4) The skin graft of his left foot will be more prone to ulcerations and he requires to be more careful with his footwear.
- He needs review in OPD periodically.

DOD: 4.4,2016.

my for

Prof Tan Kok Chai Senior Consultant Plastic, Reconstructive and Aesthetic Surgery Singapore General Hospital

KARUPPAN CHETTIAR & PARTNERS

ADVOCATES & SOLICITORS NOTARY PUBLIC COMMISSIONER FOR OATHS UEN 53131205D

Renuka Chettiar Ganesh S. Ramanathan

8th February 2018

111 North Bridge Road #29-01 PenInsula Plaza Singapore 179098

Singapore 179098 Tal: (65) 6299-9500 (4 lines) Fax: (65) 6333-0455

e-mail: kcp@kcp.com.sg

Service of court documents by fax/e-mail is not accepted

Singapore General Hospital Outram Road

Our Ref:

GR.AC.4114.16.jk

Singapore 169608

Your Ref:

Attention: (Medical Report Section)

Dear Sirs

6

RE: CLARIFICATION OF SPECIALIST MEDICAL REPORT FROM THE DEPARTMENT OF PLASTIC SURGERY

We act for Mr Alexander Natarajan.

We thank you for the specialist medical report dated 17th January 2018, prepared by Prof Tan Kok Chai.

Prof Tan opined that there may be episodes of ulceration of the skin graft. Please let us know as to whether our client needs surgery or procedure in future for the skin graft / muscle flap over his left foot, and if so, please give an estimate of the cost at B1 ward rates.

Thank you.

Yours faithfully

(Ganesh S.R.)

SINGAPORE ACCIDENT STATEMENT

IMPORTANT NOTICE

Contact Number EMail Address

- 1, Please report correctly the details of the accident to speed up the claims process.
- 2. This Form must be completed by the Policyholder and/or the Authorised Driver.
- 3. Information provided must be as truthful and accurate as possible. Any wilful misrepresentation or witholding of material facts may allow insurance companies to repudiate policy ability
- 4. The issue and acceptance of this Form by insurance companies is not an admission of policy liability on the part of the insurance companies.
- 5. Any false reporting may be referred to the Police for investigation.
- This report will be forwarded by the insurers of the insurers of the GIA Records Management Centre established by the General Insurance Association of Singapore(GIA) for archiving and that copies of this report will for a fee be made available upon application by interested parties.
- 7. By the lodgement of this report to the insurers, you hereby consent to the archiving of this report at the centre and to copies of the report being made available aforesaid.

	ACCIDENT STATEMENT
Date Of Report	05/04/2016 10:16
Date Of Accident	04/04/2016 11:10
Exact Location Of Accident	KG BAHRU RD
Country/State of Loss	Singapore
	DETAILS OF OWN VEHICLE
Vehicle Registration Number	SHA2002G
Insured/Policyholder	STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
Name Of Registered Owner	COMFORT TRANSPORTATION PTE LTD
Co Reg No	199303821R
Email Address	fleetsafety@cdgtaxi.com.sg
Mobile Phone No	
Alternative Phone No	Office-65508768
Vehicle Particulars	
Manufacturer	HYUNDAI
Model	SONATA
Exact Purpose for which vehicle was being used at time of accident	
Are you claiming under your own insurance policy for repair to your vehicle?	No
If No, Please state action to be taken	Reporting Only
Vehicle Category	Taxi
Insurance Company	
Name of Insurance Company	India International Insurance Pte Ltd
Type Of Coverage	Third Party Fire and/or Theft
Fleet Policy	Yes
Policy Number	MCOM0016
Cover Note Number	
Driver	
Name of Driver	THAM CHEE HOONG
NRIC No	S6880195H
Date Of Birth	10/06/1968
Occupation	Outdoor
Date Of Driving Pass	27/07/2012
Driving Experience	3 Years And 8 Months
Gender	Male
Mobile Number	
Fax Number	

ATNTW@SINGNET.COM.SG

Address

508 #06-85 HOUGANG AVENUE 10

Postcode

530508

Was driver an employee of the Insured's Company No.

If No, Relationship of the Driver with the Insured Vehicle Registration Number of Driver's Own

Vehicle

Insurance Company of Driver's Own Vehicle

General Information of the Accident

Type Of Accident

Collision- Head to Side

Other - TAXI DRIVER

Weather Conditions

Clear

Road Surface

Dry

Other Information

Was any foreign vehicle involved in this accident?

Was any body injured in the Accident?

No Yes

Was any other material or property damaged?

Yes

Was there any video captured by Car Camera?

Yes

Number of Passengers (Including Driver)

Details of Police Action

Was the accident reported to the police?

Yes

If Yes, Please state which Police Station

Police Station Name [Other]

TP HQ

Was notice of intended Prosecution given?

No

If Yes, against whom?

Circumstances of Accident

SEE POLICE REPORT

Are accident photos available for attachment?

DETAILS OF OTHER VEHICLE PROPERTY 1

Vehicle Registration Number

FBE8902S

Vehicle Make/Model/Colour

Details Of Properties

Name of Driver

NRIC/Passport Number

Contact Number

Address

Postcode

Insurance Company Name

Nature Of Damage

FRT

No. Of Passenger (Including Driver)

Details of Witness

Name

Phone Number

Email Address

DETAILS OF INJURED PERSON 1

Name

RIDER

Approximate Age

Injuries Sustain

LEFT LEG

Injured person in which vehicle?

FBE8902S

Were seat belts worn?

Was injured conveyed to hospital by ambulance? Yes
Address
Postcode

SKETCH PLAN

IMPORTANT NOTICE

- 1. Please report correctly the details of the accident to speed up the claims process.
- This Form must be completed by the Policyholder and/or the Authorised Driver.
- 3. Information provided must be as truthful and accurate as possible. Any wilful misrepresentation or withholding of material facts may allow insurance companies to repudiate policy liability.
- 4. The issue and acceptance of this Form by insurance companies is not an admission of policy liability on the part of the insurance companies.
- Any false reporting may be referred to the Police for investigation.
- 6. The report will be forwarded by the insurers of the GIA Records Management Centre established by the General Insurance Association of Singapore (GIA) for archiving and that copies of this report will for a fee be made available upon application by interested parties.
- 7. By the lodgement of this report to the insurers, you hereby consent to the archiving of this report at the centre and to copies of the report being made available aforesaid.
- 8. Consent under the Personal Data Protection Act (PDPA)

I understand, acknowledge, agree and consent that :

- (a) My insurer , my w orkshop and the General insurance Association of Singapore ("GIA") may/are permitted to collect, use, disclose and/or process my personal data/personal information set out in this [form] and any other personal information provided by me or possessed by my insurer (collectively the "Personal Information") and disclose and transfer such Personal Information to all Insurer(s) who have insured vehicle(s) involved in this accident (all insurer(s) who have insured vehicle(s) involved in this accident shall be collectively referred to as the "Insurers"), the insurers' law yers/law firms, the Monetary Authority of Singapore and any relevant government agency/authority (such as the police), for the purpose(s) of :
- (i) processing, handling and/or dealing with my claims including the settlement of the claims and any necessary investigations relating to the dialms:
- (II) investigating the accident and/or my claims;
 - (iii) carrying out and/or dealing with my instructions or responding to any enquiries by me;
 - (iv) administering my claims (including the mailing of correspondence, statements, invoices, reports or notices to me, which could involve disclosure of certain personal data about me to bring about delivery of the same as well as on the external cover of envelopes/mail packages); and/or
 - (v) complying with applicable law in administering, processing, handling and/or dealing with my claims. (collectively the "Purposes")
 - (b) all insurer(s) who have insured vehicle(s) involved in this accident and the insurers' law yers/law firms, may/are permitted to collect, use, disclose and/or process my Personal Information for one or more of the above Purposes; and
 - (c) my Personal Information may/can be disclosed by any of the Insurers and/or GIA to their third party service providers or agents (including their law yers/law firms), which may be sited outside of Singapore, for one or more of the above Purposes.

COMFORT TRANSPORTATION PTE-LTU CO REG NO. 199303821R

Policyholder's Signature / Date & Time

Driver's Signature (if driver is not-the policyholder) / Date

Witnessed by Reporting Centre

Tracker 4/4/18

Personnel

PRE 1902

Sketch Plan

No.



REPORT OF A TRAFFIC ACCIDENT



Police Station Of Origin: Traffic Police Division HQ 10 Ubi Avenue 3 SINGAPORE 408865 Tel No: 65470000 1 of 3 Report No. T/20160404/2072

04/04/2016 12:52	A/20160404/0086	Station Diary No.:
Informant's Particulars		
Name of Informant: THAM CHEE HOONG	Address: APT BLK 508 HOUGANG / SINGAPORE 530508	AVE 10 #06-85 HDB-HOUGANG
ID Type / ID No.; NRIC NO / \$6880195H	Contact No.:	Mohile: 98329899

Nationality: Email: SINGAPORE CITIZEN Sex: Date of Birth: Type of Informant: Age: Male 47 10/06/1968 Driver Race: Language: Institution / School Name: Chinese Occupation: Driving Licence Information: Taxi driver Class: 3 Date of Expiry:

General Inform	nation of the Accident					
Type of Accident:	Injury Conveyed By Ambulan	Drink ce Drive: No	Date/Time of Accident: 04/04/2016 11:	:10	Type of Location: Straight Road	
Location: Along Road 1 KAMPONG B LOWER DELT	TA ROAD	load Surface;	7"	Roa	d Speed Limit:	
Clear		lry				
Traffic Flow: One Way		Traffic Control: Traffic Light - Working			Traffic Volume: Moderate	
Type of Collisi Between Movi	on: ng Vehicles - Head To Side			100000000000000000000000000000000000000	one conveyed by oulance:	

Vehicle No.	Type	Make	Model	Color	Condition	No of
FBE8920S	Motorcycle				Seriously Damaged	0
SHA2002 01	Car				Slightly Damaged	0

Details of Person Involved	
Any Pedestrian Involved: No	
No. of Pedestrians Injured: NIL	Use of Pedestrian Crossing: NA





Police Station Of Origin: Traffic Police Division HQ 10 Ubi Avenue 3 SINGAPORE 408865 Tel No: 65470000 2 of 3 Report No. T/20160404/2072

CONTINUATION OF REPORT

Driver	WEATHER WAS THE SHEET	and Loupe	AND SUSTAINED	205	To be a second	C. S. AND LOS AND LOS AND
Name	THAM CHEE HOONG			ID No		S6880195H
Related Vehicle	SHA2002 (Car)			Conta	ct No.	98329899
Hospital/Clinic	NIL			Class Drivin Licen Expir	g	Class: 3 Date of Expiry: NIL
Date Treatment	NIL Date Dis			harge	NIL	
No. of Days gran	ted Medical Leave	7.1120			NIL	

Brief Details.

ON THE ABOVE DATE AND TIME, I WAS COMING OUT FROM THE SMALL ROAD FROM SILAT AVE TURNING ONTO KAMPONG BAHRU ROAD. I CHECKED BOTH SIDES BEFORE TURNING, AND AS IT WAS CLEAR I STARTED TO MAKE THE TURN. SUDDENLY, ONE MOTORBIKE APPROACHING FROM MY RIGHT AT A VERY FAST SPEED CAME AND THE FRONT OF THE BIKE HIT MY LEFT BUMPER. THE RIDER FLEW ON TO THE ROAD AS WELL. AFTER PARKING MY CAR AT A SAFE LOCATION, I WENT TO GO CALL HELP FOR THE INJURED RIDER. THE RIDER SUFFERED QUITE SERIOUS INJURIES TO HIS LEFT LEG. I WAS NOT INJURED IN THE COLLISION.

MY TAXI SUFFERED SMALL DAMAGES TO THE FRONT LEFT BUMPER SIDE, AND THE BIKE ALSO SUFFERED SOME DAMAGES.

THATS ALL.





Police Station Of Origin: Traffic Police Division HQ 10 Ubi Avenue 3 SINGAPORE 408865 Tel No: 65470000

3 of 3 Report No. T/20160404/2072

CONTINUATION OF REPORT

Sketch Plan

Informant is not able to provide sketch plan

IMPORTANT: Please attach a copy of your vehicle's Insurance Certificate to this report. If you don't have the certificate with you now, please fax a copy to 65474885 stating the report number as reference.

Signature Of Officer Recording The Report: TP /	Signature Of Informant:
SARHAN SAYED HASSAN	
Signature Of Interpreter:	Date/Time:
Not applicable	04/04/2016 12:52
Officer In Charge Of Case:	.Classification Of Case:
DJUMANDI BIN DJUHARI	Programme A company
Contact No.: 65472077	SINGAPORE POLICE FORCE
authentication Stamp	diam's - actours
7100	31

Signature



Report No. T/20160404/2084

1 of 3

Case Summary Form (CSF For NP168)

Manual NP168 Form Serial No

T/20160404/2072

Report Number

T/20160404/2084

Vide Report Number

Date/Time of Report Made

04/04/2016 13:45

Place Report Lodged

Traffic Police Division HQ

Type of Informant

Driver

Name of Informant

THAM CHEE HONG

ID Type / ID No.

NRIC NO / S6880195H

Home/Office

Mobile

98329899

Email

Type of Accident

Injury / Conveyed By Ambulance

Drink Drive

No

Anyone conveyed by

ambulance

Yes

Date/Time of Accident

04/04/2016 11:10

Vehicle No.	Туре	Make	Model	Color	Condition	No of
FBE8920S	Motorcycle				Seriously Damaged	0
SHA2002G	Car				Slightly Damaged	0

Details of Person Involved	
Any Pedestrian Involved: No	
No. of Pedestrians Injured: NIL	Use of Pedestrian Crossing: NA

Sketch Plan Pg.6



T/20160404/2084

2 of 3 Report No. T/20160404/2084

Continuation of CSF For NP168

Driver					10000	
Name	THAM CHEE HONG			ID No		S6880195H
Related Vehicle	SHA2002G (Car)			Contact No.		98329899
Hospital/Clinic	NIL			Class Drivin Licend Expiry	g	Class: NIL Date of Expiry: NIL
Date Treatment	NIL Date Disc			harge	NIL	
No. of Days gran	ted Medical Leave	7.71			NIL	

Brief Facts.

REFER TO ORIGINAL REPORT NUMBER T/20160404/2072, I WISH TO CORRECT THE VEHICLE NUMBER OF MY TAXI

IT SHOULD BE: SHA2002G.

THATS ALL.

Sketch Plan Pg.7



3 of 3

Report No. T/20160404/2084

Continuation of CSF For NP168

Sketch Plan

Informant is not able to provide sketch plan

IMPORTANT: Please attach a copy of your vehicle's Insurance Certificate to this report. If you don't have the certificate with you now, please fax a copy to 65474885 stating the report number as reference.

Case Sensitivity

No

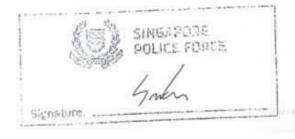
Officer-In-Charge of Case

TP/GIT/

DJUMANDI BIN DJUHARI

Classification of Case

1) INJURY / CONVEYED BY AMBULANCE



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Reg No 198703907 Z

21 February 2018

OUR REF: MR/00033/2018 (REQUEST NO. 201803153)

CLARIFICATION REPORT ON ALEXANDER NATARAJAN NRIC NO. SG 7768438

Treatment of ulcerations is usually by medical dressing treatment of first choice first.

Unable to estimate cost at this part in time.

Prof Tan Kok Chai Senior Consultant Department of Plastic, Reconstructive & Aesthetic Surgery Singapore General Hospital



(a) (b)	$(x_1, x_2, \dots, x_n) \in \mathbb{R}^n$	



BONE AND JOINT SPECIALIST CLINIC

Holistic Care with Precision Company Reg. Not 201503140R

Specialist Medical Report on ALEXANDER NATARAJAN

I declare that I understand that it is my duty to assist the court to provide an expert opinion and that duty overrides any obligation to the person from whom I receive instructions or by whom I am paid.

Clinical History

Mr Alexander Natarajan is a 41 year old gentlemen who was involved in a road traffic accident on 4/4/2016. He was admitted to Singapore General Hospital (SGH). He incurred in the following injuries:-

- a) 1st metatarsophalangeal joint (MTPJ) fracture-dislocation with comminuted fracture of 3 50 proximal phalanx and metatarsal head.
- b) 4th metatarsophalangeal fracture dislocation with comminuted fracture of the metatarsal
 head.
- c) Degloving injury involving the entire heel pad, extending from medial food and distal plantar forefoot.
- d) 2nd toe middle and distal phalanx fracture; 3rd and 5th toe proximal phalanx fracture.
- e) Posterior heel laceration distal to tendoachilles insertion.

He underwent left foot debridement, k-wiring of left 1st MTPJ and 4th MTPJ, with suture to laceration overlying 4th MTPJ on 4/4/2016. He had 2 further debridements with vacuum assisted (VAC) dressing on 7/4/2016 and 12/4/2016.

Finally he underwent definitive wound coverage with free rectus flap and skin grafting to left foot wound on 19/4/2016. He was on regular follow-up in SGH and fractures were noted to have healed. Orthopaedic clinic at SGH had given him an open date whereas the plastic reconstruction surgery unit had given him a once in 3 months follow-up.

Current Symptoms

He is still having pain in feet and toes due to the severe nature of the soft tissue and bone injury. He has stiffness in ankle and foot including toe joint movement. While walking any distance beyond 5minutes it is associated with pain. Currently he is working in a shop and he finds it difficult to carry heavy loads since he has immediate pain due to the intra-articular i.e. joint injuries.

Specialist Medical Report Review

- Specialist medical report from Prof Tan Kok Chai, Senior Consultant, Plastic, Reconstructive and Aesthetic Surgery, SGH, dated 17/1/2018.
- Specialist medical report from Dr Kevin Koo, Consultant Orthopaedic Surgeon, SGH, dated 20/10/2017.
- Medical report from Prof Tan Kok Chai, Senior Consultant, Plastic, Reconstructive and Aesthetic Surgery, SGH, dated 28/6/2016.

Company Reg. No: 201503140R

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Hospital (Connexion), Singapore 217562

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Si bonejointspecialist@gmail.com
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e-consult: https://www.my-doc.com/join/bonejointspecialist

Clinical examination

- Numbness of toes and feet attributable to the severe soft tissue injury inclusive of sensory nerves.
- Left foot bulky scar attributable to soft tissue procedure to address severe degloving injury.
 Scar Size 16cm by 6cm.
 - iii) Donor site scar at:-
 - Left side of abdomen 16cm. (Rectus Muscle Donor Site)
 - ii) Right thigh 16cm by 8cm. (Skin Graft Donor Site)
 - iv) Ankle range of motion:-
 - I) Dorsiflexion 15°
 - ii) Plantarflexion 30°
 - iii) Inversion 30°
 - iv) Eversion 20°
- v) Toes:-
 - 1st Metatarsophalangeal Joint (MTPJ):-
 - Extension 10°
 - Plantarflexion 0°
 - ii) 4th Metartarsophalangeal Joint (MTPJ): -
 - Dorsiflexion 10°
 - Plantarflexion 10°
 - 2nd, 3rd and 5th toe Metartarsophalangeal Joint (MTPJ):-
 - Dorsiflexion 20°
 - Plantarflexion 10°
- vi) Due to the stiffness of foot and ankle with a bulky flap he get easily scars at the medial side of the foot/ankle.
- vii) Due to the bulky flap his shoe size on the left side had increased to size 10 (previously 9).

Radiological investigations and Clinical photos

- a) Radiographs done on 8/2/2018 revealed osteoarthritis of metatarsophalangeal joint of 1st and 4th on the left side.
- b) The clinical photos of the large bulky flap is evident and the dressing is due to abrasive scar that he gets from the shoe wear abrading his ankle.



BONE AND JOINT SPECIALIST CLINIC

Holistic Care with Precision Company Reg. No: 2015031408

Future Treatment

He is still having pain and stiffness in the right foot, this is attributable to the bulky flap as well as the osteoarthritis of 1st and 4th MTPJ. He will benefit from debulking to facilitate ease in shoe wear. Such surgery is often done by Plastic, Reconstruction and Aesthetic surgeons. Estimated cost as a Class B1 Patient in a restructured institution is about \$20000/-.

Moreover, he will need possible fusion of 1st and 4th toe MTPJ for progressive arthritis. The estimated costs of this is about \$15000/- in a restructured hospital as a Class B1 Patient.

At present he has to regularly change his foot wear and incur in double cash due to the differential size caused by the bulky flap. I have referred him to a podiatrist to consider an orthotic device to address his abnormal foot morphology caused by the injury. The usual cost given by Orthotics is \$400 to \$600/year. This cost will be lifelong unless debulking surgery is successfully done.



Percentage Disability

His latest computed percentage disability based on the 5th edition of workmen compensation booklet is:-

- a) Ankle range of motion:
 - i) Dorsiflexion 15° => 2%
 - ii) Plantarflexion 30° => 3%
 - iii) Inversion 30° => 0%
 - iv) Eversion 20° => 0%
- b) Toes:-
 - 1st Metatarsophalangeal Joint (MTPJ):-
 - Extension 10° => 5%
 - Plantarflexion 0° => 3%
 - 4th Metartarsophalangeal Joint (MTPJ): -
 - Dorsiflexion 10° => 1%
 - Plantarflexion 10° => 1%
 - 2nd, 3rd and 5th toe Metartarsophalangeal Joint (MTPJ):-
 - Dorsiflexion 20° => 1%
 - Plantarflexion 10° => 1%
 (2% per toe is total 6%)

Based on combined value chart, his total percentage disability is 21%.

Company Reg. No: 201503140R

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Hospital (Connexion), Singapore 217562
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| bonejointspecialist@gmail.con
| www.bonejointspecialist@gmail.com
| e-consult: https://www.my-doc.com/join/bonejointspecialist

Expert Opinion

The patient had a severe ankle injury to foot with associated bony injuries. He already has osteoarthritis of the 1st and 4th MTPJ. There is a high probability that he will need fusion as the disease worsens over time. There is permanent morphological change in the appearance of the foot as evident in the clinical photos. He has no ankle or subtalar joint injury. However, the extended period of recovery and non-weight bearing caused soft tissue capsular tightness leading to decrease in range of motion of these joints.

Rectus abdomen muscle flaps are good in addressing soft tissue defects. They are robust and provide good soft tissue cove. However, the bulky appearance will give difficulty with shoe wear and will often need thinning after the acute period has settled.

Due to the combination of soft tissue and bony injuries in the left foot he will not regain normal foot mechanics he had prior to the accident. His need for special footwear and orthotics will be lifelong.

Myerson MS et al indicated via clinical studies that more then 50% of patients with such injuries will have prolong morbidity and poor functional outcome due to this combined soft tissue and bony injury.

Ref:-

- Song B¹, Chen J², Han Y³, Li Y², Su Y², Guo S².
 Aesthetic Plastic Surg. 2016 Aug;40(4):519-25.
 Reconstruction of Complex Defects of Lower Extremities Using Thinned Free Muscle Flaps.
 - Myerson MS¹, McGarvey WC, Henderson MR, Hakim J.
 J Orthop Trauma. 1994 Aug;8(4):343-9.
 Morbidity after crush injuries to the foot.
 - iii) Varghese BK¹, Babu P², Roy T³.
 Med J Armed Forces India. 2016 Apr;72(2):131-9.
 Microsurgical free muscle flaps for reconstruction of post-traumatic complex tissue defects of foot.



BONE AND JOINT SPECIALIST CLINIC

Hollstic Care with Precision

NIC

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www.bonejointspecialistclinic.com
e-consult: https://www.my-doc.com/join/bonejointspecialist

In the preparation of the above report I duly declare that the report and opinion rendered is correct and true. The opinions rendered in this case were based upon reasonable medical probability, clinical assessment, examination and documentation. This evaluation had been conducted on the basis of the medical examination and documentation as provided, with the assumption that the method is true and correct. If more information becomes available at a later date, an additional report may be requested. Such information may, or may not change the opinions rendered in this evaluation.

Yours Sincerely

Dr S S Sathappan

MBchB (UK), FRCS (Edin), Mmed (Ortho) FRCSEd (Ortho), FAMS (S'pore) Medical Director (MCR No. 07304) Bone and Joint Specialist Clinic

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RADIOLOGY REPORT

Patient Name Alexander Natarajan NRIC/Passport Number S7768438G DOB 16/06/1977 MR Number FP00035060 Service Date 08/02/18 Order Dr Sathappan, SS

Sex/Age M/40 Account Number FA00104538 Patient Location DIS

PROCEDURE: X-Ray Foot Bilateral

CLINICAL INDICATION:

COMPARISON: None

FINDINGS:

On the left side, deformity of head of 1st metatarsal, base of 1st distal phalanx, head of 4th and 5th metatarsal, base of 2nd middle phalanx are due to old insult.

Surgical clips over left medial foot and ankle.

Osteoarthritis is more prominent in the left 1st metatarsal-phalangeal joint.

No displaced fracture is seen.

No subluxation or dislocation is noted.

No large joint effusion is seen.

Small right plantar and dorsal calcaneal spurs.

Diffuse osteopenia.

Approved By

Dr Aaron Koay

Consultant Radiologist

Approved Date/Time

09/02/18 0936 hrs

This report is electronically signed, no signature is required.