

Primary care

Venous Leg Ulcer



Malaysia



PATIENT: 92 y/o Male



MEDICAL HISTORY: Congestive heart failure (CHF), hypertension (HTN), peripheral vascular disease, chronic cellulitis, and a prior hospitalization for left lower extremity abscess. Past surgical history includes vein ligation.



WOUND DURATION:
3 Years



PREVIOUS THERAPIES: SOC with sharp debridement and compression wraps, collagen dressings, silver dressings, and amniotic tissue grafts



TREATMENT: Continuous Topical Oxygen Therapy and Amniotic Tissue Graft

1 Week



5.5 x 3.0 x 0.2 cm

7 Weeks



4.4 x 2.3 x 0.1 cm

19 Weeks



Healed



56 Days ^{Malaysia}



PATIENT: 54 y/o Female



MEDICAL HISTORY:

Hypertension, fluid overload, ischemic heart disease, cachexia, anemia, malnutrition & diabetes



WOUND DURATION:

> 6 Months



TREATMENT: Continuous Topical Oxygen Therapy and holistic approach for managing patient and wound including labs, x-ray, C&S swab and TIME framework. Commence metformin, insulin and iron dextran. Arrange dietitian, physiotherapy, psychological and educational support.

On Presentation

NATROX® O₂
Commenced



Poster Authors: Dr. Praveenan S Elangovan, MBBS, CCWC, and Dr. Parvesh A/L Kalaikumar MD

Primary care

Wound Type



Malaysia



PATIENT:



MEDICAL HISTORY:



WOUND DURATION:



PREVIOUS THERAPIES: (if available)



TREATMENT: Continuous Topical Oxygen Therapy (if available any combined therapies)

On Presentation



4 Weeks



Healed

Poster Authors: Dr. Praveenan S Elangovan, MBBS, CCWC, and Dr. Parvesh A/L Kalaikumar MD

Primary care

Diabetic Foot Ulcer



Malaysia



PATIENT: 59 y/o Female



MEDICAL HISTORY: Left foot amputation of gangrenous toes 14 years previously with a chronic wound at site. Presented with a new, acute wound on same foot for treatment to prevent further amputation, Type 1 diabetes mellitus, hypertension, dyslipidemia, anemia, Charcot arthropathy



TREATMENT: Continuous Topical Oxygen Therapy and holistic approach for managing patient and wound including nutritional education & supplement, counselling, C&S swab, labs, TIME framework, and offloading shoe

On Presentation



7 Days



28 Days



46 Days



Healed

Poster Authors: Dr. Praveenan S Elangovan, MBBS, CCWC, and Dr. Parvesh A/L Kalaikumar MD

Primary care



PATIENT: 53 y/o Male



MEDICAL HISTORY: Diabetes mellitus, anemia. Presented with a wound over the right plantar region extending to posterior aspect of heel with exposed bone and pressure damage.



WOUND DURATION: 5 months



PREVIOUS THERAPIES: Right lower limb necrotizing fasciitis previously treated with debridement, skin flap transplant, NPWT with multiple hospital admissions.



TREATMENT: Continuous Topical Oxygen Therapy and holistic approach for managing patient and wound including labs, x-ray, C&S swab and TIME framework. Continue metformin, insulin, multivitamin, commence iron dextran. Arrange psychological and educational support to optimize HbA1c. Provide offloading shoe.

Complex Diabetic Foot Ulcer



Malaysia

On Presentation



28 x 11 cm

NATROX® O₂ Commenced



25.5 x 6 cm

12 Days



23.5 x 5.7 cm

179 Days



20 x 5 cm

Poster Authors: Dr. Praveenan S Elangovan, MBBS, CCWC, and Dr. Parvesh A/L Kalaikumar MD

Primary care



PATIENT: 59 y/o Male



MEDICAL HISTORY: Diabetes, hypertension, dyslipidemia. Motor vehicle accident trauma to left foot resulting in Rays amputation of 3rd toe and K wiring to fractured great toe. Post operatively diagnosed with osteomyelitis.



WOUND DURATION: 12 Weeks



PREVIOUS THERAPIES: 6-week course of antibiotic for osteomyelitis treatment



TREATMENT: Continuous Topical Oxygen Therapy and holistic approach for managing patient and wound including nutritional supplement, counselling, C&S swab, TIME framework, and offloading shoe

Surgical Wound Left Foot Post RTA



Malaysia

On Presentation



5 x 3 cm

24 Days



4 x 1.6 cm

118 Days



Poster Authors: Dr. Praveenan S Elangovan, MBBS, CCWC, and Dr. Parvesh A/L Kalaikumar MD



Malaysia

Wound Type



PATIENT:



MEDICAL HISTORY:



WOUND DURATION:



PREVIOUS THERAPIES: (if available)



TREATMENT: Continuous Topical Oxygen Therapy (if available any combined therapies)

On Presentation

7 Weeks



Healed

Poster Authors: Dr. Praveenan S Elangovan, MBBS, CCWC, and Dr. Parvesh A/L Kalaikumar MD



Malaysia



WOUND DURATION:
5 Years



TREATMENT: Continuous
Topical Oxygen Therapy
with compression therapy

On Presentation



1 Month



2 Months





Malaysia



PATIENT: Male



WOUND DURATION:
2 Months



TREATMENT: Continuous
Topical Oxygen Therapy

On Presentation



7.5 x 3.5 cm

8 Weeks



Healed



PATIENT: Male



WOUND DURATION:
2 Months



TREATMENT: Continuous
Topical Oxygen Therapy

On Presentation



4.5 x 3.0 cm

8 Weeks



Healed

Poster Author: Prof Harikrishna KR Nair S.I.S KMN MD FRCPI FCWCS FMSWCP CMIA CHM



PATIENT: Male



WOUND DURATION:
6 Months



TREATMENT: Continuous
Topical Oxygen Therapy

On Presentation



9.0 x 6.0 cm

16 Weeks



95% reduction in wound size

Poster Author: Prof Harikrishna KR Nair S.I.S KMN MD FRCPI FCWCS FMSWCP CMIA CHM



Malaysia



PATIENT: Male



WOUND DURATION:
3 Months



TREATMENT: Continuous
Topical Oxygen Therapy

On Presentation



6.5 x 5.8 cm

6 Weeks



Healed

Poster Author: Prof Harikrishna KR Nair S.I.S KMN MD FRCPI FCWCS FMSWCP CMIA CHM



PATIENT: Male



WOUND DURATION:
2 Months



TREATMENT: Continuous
Topical Oxygen Therapy

On Presentation



8.0 x 3.0 cm

12 Weeks



Healed

Poster Author: Prof Harikrishna KR Nair S.I.S KMN MD FRCPI FCWCS FMSWCP CMIA CHM



Malaysia



PATIENT: Male



WOUND DURATION:
24 Months



TREATMENT: Continuous
Topical Oxygen Therapy

On Presentation



1.5 x 1.5 cm

17 Weeks



Healed



Poster Author: Prof Harikrishna KR Nair S.I.S KMN MD FRCPI FCWCS FMSWCP CMIA CHM



Malaysia



PATIENT: Male



WOUND DURATION:
2 Months



TREATMENT: Continuous
Topical Oxygen Therapy

On Presentation



6.0 x 3.0 cm

18 Weeks



Healed

Poster Author: Prof Harikrishna KR Nair S.I.S KMN MD FRCPI FCWCS FMSWCP CMIA CHM



PATIENT: Male



WOUND DURATION:
48 Months



TREATMENT: Continuous
Topical Oxygen Therapy

On Presentation



4.0 x 2.0 cm

9 Weeks



Healed

Poster Author: Prof Harikrishna KR Nair S.I.S KMN MD FRCPI FCWCS FMSWCP CMIA CHM



PATIENT: 50 y/o Male



MEDICAL HISTORY: Poorly-controlled diabetes, on long term immunosuppression following a renal transplant for NSAIDs induced renal toxicity. Presented as late stage with an infected ulcer over the right plantar fifth metatarsal



PREVIOUS THERAPIES:

Angioplasty in combination with plain and Drug-Eluting balloon (DEB) of the distal superficial femoral artery (SFA) and proximal anterior tibial artery (ATA). Digital amputation of 4th and 5th toe, IV antibiotics, and topical negative pressure wound therapy



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



8 Weeks



Improved Granulation Tissue

Poster Authors:

Boey J (BPodMed), Koh MH (BSc (Podiatry), Tang TY (MD, FRCS(Med) FAMS), Chong TT (MBBS, FACS (Gen & Vas Surg)



PATIENT: 77 y/o Female



MEDICAL HISTORY: Type 2 Diabetes, Peripheral Artery Disease, end-stage renal failure and ischemic heart disease. Presented with non-healing ulcer on left medial heel.



WOUND DURATION: 1 Month



PREVIOUS THERAPIES: Oral antibiotics



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



1 Month



Improved Granulation Tissue

Poster Authors:

Boey J (BPodMed), Koh MH (BSc (Podiatry), Tang TY (MD, FRCS(Med) FAMS), Chong TT (MBBS, FACS (Gen & Vas Surg)

Primary Care

Venous Leg Ulcer



Malaysia



PATIENT: 48 y/o Male



MEDICAL HISTORY: Infected venous ulcer on left lower leg



WOUND DURATION: 2.5 Years



TREATMENT: Continuous Topical Oxygen Therapy

Day 0



VAS: 10

Day 20



Reduction in pain level

Day 65



Healed



Malaysia



PATIENT: 82 y/o Male



MEDICAL HISTORY:

Cutaneous injury to his right Achilles with exposed tendon



WOUND DURATION: 2 Years



PREVIOUS THERAPIES: NPWT



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



**Commenced
NATROX® O₂**



**NPWT d/c day
8 d/t pain**

Day 14



**0/0 pain
85% granulation**

35 Days



**0/0 pain
100% granulation**



PATIENT: 54 y/o Male



MEDICAL HISTORY: Diabetes, ulcer developed following a trauma



WOUND DURATION: 2 Years



PREVIOUS THERAPIES:
Treated daily with Merbromin aqueous solution, NPWT



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



NATROX® O₂ Commenced



17 Days



30 Days



Healed



PATIENT: 67 y/o Male



MEDICAL HISTORY: Ulcer on Left 1st Metatarsal Head, Type 2DM, Peripheral Neuropathy, HTN, COPD



WOUND DURATION: 10 Weeks



PREVIOUS THERAPIES:
Collagenase



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



3.3 x 2.8 x 0.1 cm

12 Weeks



0.2 x 0.6 x 0.1 cm

99% Healed



Malaysia



PATIENT: 53 y/o Male



MEDICAL HISTORY: DFU R plantar, IDDM, neuropathy, HTN, CAD, chronic fatigue, depression, gastritis DFU R plantar, IDDM, neuropathy, HTN, CAD, chronic fatigue, depression, gastritis. ABI= Non-Compressible TcPO2 >50



WOUND DURATION:
10 Months



PREVIOUS THERAPIES:
Advanced wound matrix



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



4 Weeks



8 Weeks



10 Weeks



Healed

NATROX
Wound Care



PATIENT: 75 y/o Male



MEDICAL HISTORY: R Lateral foot DFU, Type1DM, L Systolic Heart Failure, CAD, PVD, HTN, Venous reflux.
Toe brachial index - 0.5



WOUND DURATION:
4 months



PREVIOUS THERAPIES:
Collagen ORC with silver, Intermittent Topical Oxygen Therapy



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



1.3 x 1.3 x 0.0

12 Weeks



0.1 x 0.1 x 0.0



PATIENT: 77 y/o Male



MEDICAL HISTORY: Type 2 DM, Neuropathy, DM Retinopathy, HTN, Obesity



WOUND DURATION: 2 Months



PREVIOUS THERAPIES: Collagenase, collagen ORC with silver, manuka honey



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



1.9 x 3.7 x 0.1

Week 12



Healed



PATIENT: 41 y/o Female



MEDICAL HISTORY:

Complicated full thickness burn on right thigh. cTOT applied during Proliferation phase on main ulcer.



WOUND DURATION:

3 Months



PREVIOUS THERAPIES:

Petroleum-impregnated tulle, various dressings, antibiotics and analgesia, medical-grade honey with foam dressings, blister graft



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



6 Weeks



12 Weeks



Primary care

Diabetic Foot Ulcer

Non-Healing:
3 months



Malaysia



PATIENT: 62 y/o Male



MEDICAL HISTORY: Complicated Diabetic Foot ulcer on forefoot with history of underlying osteomyelitis and amputation of 2nd toe.



WOUND DURATION: 3 Months



PREVIOUS THERAPIES:
Cadexomer iodine with foam,
Hydrofiber Ag dressing,
silver foam dressings, PHMB foam,
silicone foam



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



6 Weeks



12 Weeks



Healed



Primary care

Venous Leg Ulcer



Malaysia



PATIENT: 79 y/o Male
Army Veteran



MEDICAL HISTORY: Peripheral Neuropathy, Chronic Edema, Venous Disease, 2-year history BLE wounds, exposed to Agent Orange



WOUND DURATION: >2 years



PREVIOUS THERAPIES:
polyvinyl alcohol foam
infused with methylene
blue and gentian violet



TREATMENT: Continuous
Topical Oxygen Therapy (*if
available any combined
therapies*)

On Presentation

RLE Lateral



On Presentation

LLE Anterior



12 weeks

LLE



Healed



Malaysia

Venous Leg Ulcer



PATIENT: 77 y/o Male



MEDICAL HISTORY:
Lymphedema and venous disease



WOUND DURATION: 5 Years



PREVIOUS THERAPIES: (if available)



TREATMENT: Continuous Topical Oxygen Therapy (if available any combined therapies)

On Presentation



Healed:



PATIENT: 54 y/o Female



MEDICAL HISTORY: R 2nd toe amputation, type 2 diabetes mellitus, vascular disease, coronary heart disease, chronic kidney disease, anemia



WOUND DURATION: 4 Months



PREVIOUS THERAPIES: (if available)



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



21 Days



49 Days



15 Weeks

Primary care

Diabetic Foot Ulcer

Non-Healing:
3 Months



Malaysia



PATIENT:



MEDICAL HISTORY: Underlying osteomyelitis and amputation of 2nd toe



WOUND DURATION:



PREVIOUS THERAPIES: (if available)



TREATMENT: Continuous Topical Oxygen Therapy (if available any combined therapies)

Commenced NATROX®
O₂



6 Weeks



12 Weeks



14 Weeks



Wilson, D. McIntyre, K., Goodfellow, P., Knowles, D., Ricci, E., Harding, K., Hutchinson, K., & Litchfield, L. (2018). Case series: Using Natrox® oxygen wound therapy in the management of diabetic foot ulcers. London: Wounds UK 1-16.

Primary care

Non-Healing Traumatic Wound



Hong Kong



PATIENT: 60 y/o male



WOUND DURATION: Presented
>30 months, became stagnant
>18 months



PREVIOUS THERAPIES: (if
available): Advanced dressings
& debridement performed at
regular base



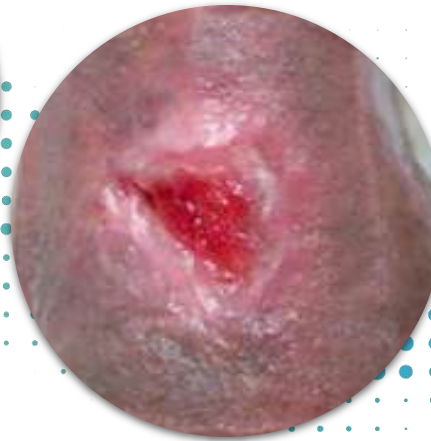
TREATMENT: Continuous
Topical Oxygen Therapy

Day 0

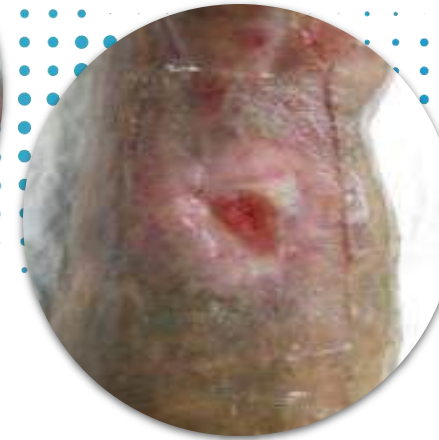


3.4 cm²

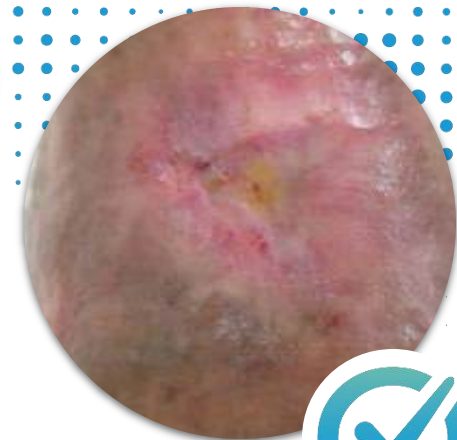
Week 3



Week 6



Week 11



Healed



Primary care

Pressure Ulcers



Hong Kong



PATIENT: 90 y/o Male



MEDICAL HISTORY: Two pressure ulcers over the lateral right foot completely covered with eschar



WOUND DURATION:
1 month



TREATMENT: Continuous Topical Oxygen Therapy

Week 1



Pain Score = 7

Week 6



Wound size
decreased by
>80% in 10 weeks

Week 11



Pain Score = 1

Primary care

Toe Ulcers



Hong Kong



PATIENT: 89 y/o Female



MEDICAL HISTORY: Wound on 4th toe of left foot.
Ankle Brachial Index (ABPI): 0.95



WOUND DURATION:
3 weeks



PREVIOUS THERAPIES: Eschar removed in first debridement but slough and biofilm persisted



TREATMENT: Continuous Topical Oxygen Therapy

Week 1



1.43 cm²

Week 3



Week 5



Week 6



Healed



Pain score decreased from 6 to 1. NATROX[®] O₂ was used for 3 weeks, wound fully healed 3 weeks later.



Singapore



TREATMENT: Continuous
Topical Oxygen Therapy

Day 0



Day 26



Day 42



Day 56



*The Harley Street & Vascular Center
Clinician: Dr Sriram Narayan*



India



PATIENT: Male



TREATMENT: Continuous
Topical Oxygen Therapy

Day 1



5 cm (L) x 3.3 cm (W)

Day 64



Complete Closure



Clinician: Dr Vivekanand



PATIENT: 41 y/o Male



MEDICAL HISTORY: NIDDM,
Anemia, Hypothyroidism



TREATMENT: Continuous
Topical Oxygen Therapy

Day 0



Day 3



Day 15



Borripatara Wongprachum M.D.

DM Foot / Doctor B

Day 67



Clinician: Dr Borripatra Wongprachum



PATIENT: 41 y/o Male



MEDICAL HISTORY: NIDDM,
Thrombocytosis, Hyponatremia



TREATMENT: Continuous
Topical Oxygen Therapy

Day 0



Borripatara Wongprachum M.D.

Day 3



Day 23



Day 71



Clinician: Dr Borripatra Wongprachum



Thailand



PATIENT: 66 y/o Male



MEDICAL HISTORY: NIDDM, Coronary artery disease s/p CABG 2000, chronic kidney disease, hypertension, hypothyroid, recent subarachnoid haemorrhage



TREATMENT: Continuous Topical Oxygen Therapy

Day 0



Day 78



Clinician: Dr Borripatra Wongprachum



Thailand



PATIENT: 75 y/o Male



MEDICAL HISTORY: NIDDM, peripheral arterial disease s/p PTA with balloon right SFA, ATA, peroneal, tibioperoneal truck, urinary bladder cancer s/p mass excision



TREATMENT: Continuous Topical Oxygen Therapy

Day 0



Day 2



Day 17



Day 36



Clinician: Dr Borripatra Wongprachum



Thailand



PATIENT: 61 y/o Male



MEDICAL HISTORY: NIDDM, peripheral arterial disease, coronary arterial disease s/p PCI in 2016, acute kidney failure



TREATMENT: Continuous Topical Oxygen Therapy

Day 0



Day 5



Day 11



Day 30



Clinician: Dr Borripatra Wongprachum



PATIENT: 53 y/o Male



MEDICAL HISTORY: NIDDM, peripheral arterial disease s/p POBA right ATA and PTA, dilated cardiomyopathy with severe LV systolic dysfunction s/p subcutaneous AICD, end stage renal disease on regular dialysis, sensorineural hearing, chronic vomiting



TREATMENT: Continuous Topical Oxygen Therapy

Day 0



Day 18



Day 20



Day 69



Clinician: Dr Borripatra Wongprachum

Primary care

Venous Leg Ulcer



Malaysia



PATIENT: 65 y/o Female



WOUND DURATION:
7 years



TREATMENT: Continuous
Topical Oxygen Therapy

On Presentation



2 Weeks Later



1 Month Later



Primary care

Diabetic Foot Ulcer



Malaysia



PATIENT: 50 y/o Female



MEDICAL HISTORY: Five operations on the left DFU



WOUND DURATION:
8 Years



TREATMENT: Continuous Topical Oxygen Therapy

On Presentation



40 Days Later



Hospital Klang Malaysia

Primary care

- Ms Y is a 42 yo, lady, works as banker, active, ADL independent, has hypertension with BMI: 34, presented with bilateral lower limb painful, weeping venous ulcer at gutter region. Imp : Bilateral Venous ulcer

- Dr Diana
- MD, University of Brawijaya, CCWC, MSWCP



Malaysia



9.5 weeks complete closure , pain free

Primary care



Malaysia

Arterial Leg Ulcer

Mrs Z is a 65-year-old with underlying Diabetes, CHF, ESRF on regular HD, and had a thyroidectomy (Oct 2023). She presented with a punched-out painful ulcer over the left calf for the past 2 months, associated with claudication. Previously on collagen dressing. ABI R- 0.8 , L -0.7 . IMP: PAD Ulcer.



8 weeks, well healed, pain free

Primary care

Arterial Leg Ulcer



Malaysia

Patient name :
Ranganayaki A/P
Paramasivam
Age: 78 Year Old
Wound type: Varicose veins
(5 years)



Primary Care

Arterial Leg Ulcer



Malaysia

Age: 55 Years old

Wound type: Varicose veins (2 years)

