

MISSION REPORT – TANZANIA

update November 2017



- ✓ **TRAINED 24 Orthopaedic Technicians in 5 Locations in Tanzania**
- ✓ **RESTORED mobility to 142 satisfied patients with 167 O&P services**
- ✓ **INTRODUCED THE NEW SwissLimbs Myoelectric Hand**

IMPLEMENTOR: SwissLimbs Association, Mendrisio, Switzerland

DONORS: Medicor Foundation - Liechtenstein, Kammea Association - Switzerland, Fondation de Bienfaisance du Groupe Pictet - Switzerland

PARTNER: Ministry of Health of Tanzania with Regional Hospital

5 LOCATIONS IN TANZANIA:

- **Njombe** – Ikonda Hospital
- **Moshi** – Tanzanian Training Center for Orthopedic Technologist (TATCOT)
- **Dar es Salaam** - Muhimbili Orthopedic Institute (MOI)
- **Zanzibar** - Mnazi Mmoja Hospital.
- **Dodoma** - Dodoma Regional Referral Hospital

SwissLimbs is a not-for-profit organization based in Switzerland, specialized in capacity building of local professionals and organizations in the ortho-prosthetic field. We restore advanced mobility to disabled people who have unfavorable options and resources to secure their own rehabilitation.
We believe that “**mobility is a basic human right that should be accessible to everyone everywhere.**”



In September this year **SwissLimbs** celebrated its 100th satisfied patient in Tanzania! This was a great achievement considered that the first mission was only one year ago. Through the first training of two prosthetists and the first satisfied patients, the word spread through the other Orthopedic centres, all wanting to adopt the **SwissLimbs** technology.

This month, we finished the third mission to Tanzania, which was a great success, elevating Orthopedic training to a higher level with the introduction of the new addition to the **SwissLimbs**' range of services: the innovative myoelectric hand.

In just three weeks, 20 Orthopedic technicians in 3 new locations received professional enhancement training in various services. The services have now grown from offering one lower limb prosthetic solution (the "Monolimb™") to a complete range of ortho-prosthetic options including:

- The Monolimb™
- The Modular Transtibial Prosthesis
- The Above Knee Prosthesis with a selection of different knee joints
- All range of Orthoses (including ortho-prostheses)
- The Myoelectric Hand

THE MYOELECTRIC HAND



Mrs Durya, upper limbs technician takes the cast of the hand stump and fits her first hand



Mr Stanlaus assembling his first hand



Helvio Conti Rossini, SwissLimbs' 3D technician teaches the hand assembling

This myoelectric hand was developed especially for upper limbs amputees in fragile nations where the access to a prosthetic hand, if available at all, has prohibitive costs reaching the tens of thousands of dollars. Thank to our 3D printed components and a simplified electronic mechanism, our hand can be offered at a cost of less than 1000 US\$!



Mr Shukudru is most proud of his athletic achievements, but even more so, about his new prosthetic hand received at MOI in Dar es Salaam at the **SwissLimbs training workshop in October 2017.**

TRAINING IN TANZANIA



Mr Kalanzi, SwissLimb's Trainer from Uganda with trainees

The main objective of the training sessions was to habilitate local orthopedic technicians to fit the **SwissLimbs** prostheses. Each of the 20 participants received a certificate endorsed by the Ministry of Health. This is a significant improvement to Tanzania's Health Care system. Technicians are become more specialized and the end users (the amputees) have better quality devises at much lower costs. This too, benefits our donors, who can reach more beneficiaries with the same resources.

GRADUATIONS



Dar es Salaam



Zanzibar



Dodoma

The past mission saw the training of 21 technicians, now habilitated to provide all of the **SwissLimbs** range of services.



President of **SwissLimbs**' Filippo Nishino lecturing at Dodoma Regional Referral Hospital

The Tanzanian government has welcomed the collaboration of **SwissLimbs** with the Ministry of Health with the aim of spreading the technology and know-how for the greater benefit of amputees and the health sector as a whole.

Excited journalists from a local TV station (Tifu TV) came to interview **SwissLimbs**. The event was broadcasted during their evening news program.



THE UNITED REPUBLIC OF TANZANIA
MINISTRY OF HEALTH AND SOCIAL WELFARE

Tifu TV



Filippo Nishino interviewed by Tifu TV, Tanzania, explaining the innovation of the myoelectric hand

THE BENEFICIARIES

Since the project started in September 2016, the Tanzanian beneficiaries number reached 142 patients which received a total of 167 devices (see list of beneficiaries in Annex 1), that is: legs, above and below knee, orthoses, and below elbow hands. Those who had the good fortune of receiving a free device were most thankful and full of renewed hope for the future. For some of the patients it was the first time to receive a leg or a hand, although they have been amputated for quite some time. The selection criteria was applied by the hospitals based on their income (very low income or highly dependent) which makes it impossible to purchase the device with their own means.

A second list is being compiled: it's the **waiting list** for a growing number of amputees that are also in need and are waiting for the next mission to take place.

Summary:

Training / Country		Tanzania
Technicians		24
Hours of training		1,012
Type	Nr Patients	Nr Devices
Double amputees	6	12
Single amputees	59	59
Upper Limbs	13	13
Orthoses	64	83
Total	142	167

Pics of some BENEFICIARIES, with many THANK YOU's!



Dramatic life changes! “Restoring Mobility and Renewing Hope” is not just a catch phrase - for **SwissLimbs** is a reality.

These beneficiaries, and so many others, who were in hopeless conditions just a month ago, can now look to a brighter future.

Thank you for partnering with us.

SwissLimbs achievements so far:

- ✓ Restored mobility to ca **700** satisfied patients with O&P devices
- ✓ Increased range of services: O&P Centres, Training, Legs, Hands
- ✓ Introduced the new **SwissLimbs** Myoelectric Hand

Appendix 1- Patients

Nr	Country	Region	Name	Surname	Gender	Age	Type of O&P	Limbs
1	Tanzania	Moshi	Dickson	Malle	male	70	LBK	1
2	Tanzania	Moshi	Tamimu	Tamimu	male	65	Double BK	2
3	Tanzania	Njombe	Lugano	Mwakatumbura	male	32	Double BK	2
4	Tanzania	Njombe	Abraham	Sanga	male	51	LBK	1
5	Tanzania	Njombe	Traset	Kilimanjaro	male	3	AFO	2
6	Tanzania	Njombe	Estelina	Emanuel	Female	15	KAFO	1
7	Tanzania	Njombe	Issa	Iddi	male	26	AFO	1
8	Tanzania	Njombe	Chesco	Ngailo	male	43	AFO	1
9	Tanzania	Njombe	Said	Iuwanga	male	78	LBK	1
10	Tanzania	Njombe	Ally	Mwile	male	3	AFO	1
11	Tanzania	Njombe	Blandina	Mashaka	Female	2	AFO	2
12	Tanzania	Njombe	Faraja	Sanga	Female	6	AFO	1
13	Tanzania	Njombe	Neema	Nguka	Female	3	AFO	2
14	Tanzania	Njombe	Betina	Mdota	Female	19	RBK	1
15	Tanzania	Njombe	elizabeth	Changa	Female	23	RBK	1
16	Tanzania	Njombe	Vaileth	Kisogole	Female	12	AFO	2
17	Tanzania	Njombe	Rahimu	Haidhulu	male	14	AFO	1
18	Tanzania	Njombe	Emily	Mdunge	male	30	RBK	1
19	Tanzania	Njombe	Linus	Sanga	male	58	RAK	1
20	Tanzania	Njombe	Sephola	Msigwa	Female	27	AFO	1
21	Tanzania	Njombe	Eufrazia	Haule	Female	3	AFO	2
22	Tanzania	Njombe	Amos	Mwakaleja	male	47	AFO	1
23	Tanzania	Njombe	Zamda	Mbambamba	Female	25	AFO	1
24	Tanzania	Njombe	Lugano	Mwakyusa	male	18	AFO	1
25	Tanzania	Njombe	Husein	Falah	male	70	AFO	1
26	Tanzania	Njombe	Richard	Mwakibete	male	45	LBK	1
27	Tanzania	Njombe	Furaha	Ghambi	male	39	RBK	1
28	Tanzania	Njombe	Delisa	Kampuni	Female	49	LBK	1
29	Tanzania	Njombe	Maklina	Mwanandeje	Female	14	AFO	1
30	Tanzania	Njombe	Ezekia	Kaulogo	male	25	LBK	1
31	Tanzania	Njombe	Idaya	Sanga	Female	32	RBK	1
32	Tanzania	Njombe	Festo	Mgina	male	7	AFO	1
33	Tanzania	Njombe	Severin	Sambala	male	45	AFO	1
34	Tanzania	Njombe	Baraka	Mwakalukiwa	Female	16	AFO	2
35	Tanzania	Njombe	Agustino	Mwinuka	male	19	LBK	1
36	Tanzania	Njombe	Amiri	Hamadi	male	11	AFO	1
37	Tanzania	Njombe	Balbo	Msemwa	male	58	LBK	1
38	Tanzania	Njombe	Bahati	Njige	Female	15	RBK	1
39	Tanzania	Njombe	Roza	Mhagama	Female	28	AFO	1
40	Tanzania	Njombe	Elizabeth	Mgaya	Female	25	AFO	1
41	Tanzania	Njombe	Getruda	Fwalo	Female	16	AFO	2
42	Tanzania	Njombe	Windi	Sintoro	male	40	RBK	1
43	Tanzania	Njombe	Baraka	Mwambeta	male	35	RAK	1
44	Tanzania	Njombe	Doris	Mkiva	Female	22	AFO	1
45	Tanzania	Njombe	Mariabenisia	Msigwa	Female	55	RBK	1
46	Tanzania	Njombe	Catherine	Sanga	Female	5	AFO	2
47	Tanzania	Njombe	Alon	Mnyifuna	male	7	AFO	1
48	Tanzania	Njombe	John	Savery	male	18	AFO	1
49	Tanzania	Njombe	Lisa	Malundi	Female	13	AFO	1
50	Tanzania	Njombe	Elestina	Teweale	Female	42	KAFO	1
51	Tanzania	Njombe	Oni	Mwagama	male	44	LBK	1
52	Tanzania	Njombe	Masiana	Msua	Female	16	LBK	1
53	Tanzania	Njombe	Stephano	Msigwa	male	2	Neck Collar	1
54	Tanzania	Njombe	Laurensia	Lugono	Female	48	RBK	1
55	Tanzania	Njombe	Anastasia	Mlungilo	Female	48	RBK	1

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56	Tanzania	Njombe	Vanessa	Changula	Female	5	AFO	2
57	Tanzania	Njombe	Vaileth	Mwakigonjola	Female	37	LAK	1
58	Tanzania	Njombe	Atina	Mbogela	Female	10	AFO	2
59	Tanzania	Njombe	Mei	Mwinuka	Female	7	AFO	2
60	Tanzania	Mbeya	Angela	Simbeye	Female	7	AFO	1
61	Tanzania	Mbeya	Amon	Darugilie	male	12	AFO, Wrist orthosis	2
62	Tanzania	Mbeya	Michael	Mwayongo	male	15	KAFO	1
63	Tanzania	Njombe	Neema	Msigwa	Female	28	LBK	1
64	Tanzania	Mbeya	Nishita	Gohir	Female	45	AFO	1
65	Tanzania	Njombe	Betillo	Mwajombe	male	49	RAK	1
66	Tanzania	Njombe	Elisha	Selemani	male	11	FO	1
67	Tanzania	Njombe	Brown	Joshua	male	3	AFO	1
68	Tanzania	Njombe	Hezron	Tantika	male	14	FO	1
69	Tanzania	Njombe	Ernest	Mfuke	male	63	LBK	1
70	Tanzania	Njombe	felisiano	kamsamba	male	67	RAK	1
71	Tanzania	Njombe	Balthazar	Nsolo	male	63	FO	1
72	Tanzania	Njombe	Aron	Gwalisire	male	56	LBK	1
73	Tanzania	Njombe	Bernard	Mwakalinga	male	79	Wrist Orthosis	1
74	Tanzania	Njombe	Gervas	Jembe	male	28	LBK	1
75	Tanzania	Njombe	Raphael	Mtitu	male	64	Wrist Orthosis	1
76	Tanzania	Njombe	Shija	Shija	male	63	LBK	1
77	Tanzania	Njombe	Goodluck	Sinkonde	male	11	RAK	1
78	Tanzania	Njombe	Phynes	Msungu	Female	42	RAK	1
79	Tanzania	Njombe	Eliza	Kibona	Female	60	RBK	1
80	Tanzania	Njombe	Joseph	Mwasumbwe	male	43	RAK	1
81	Tanzania	Njombe	Furaha	Simbite	Female	16	AFO	1
82	Tanzania	Njombe	Kulwa	Kulwa	male	8	HKAFO	1
83	Tanzania	Njombe	Digna	Ngowi	Female	50	KAFO	1
84	Tanzania	Njombe	Paskalina	Mwenda	Female	2	AFO	1
85	Tanzania	Njombe	Geoffrey	Malyasa	male	63	KAFO	1
86	Tanzania	Morogoro	Costantino	Masasi	male	15	KAFO	1
87	Tanzania	Mtwara	Ahmad	Namtyoka	male	37	LBK+RAK	2
88	Tanzania	Njombe	Theresiana	Mbiliya	Female	6	AFO	1
89	Tanzania	Iringa	Vitus	Mkenya	male	32	LBK	1
90	Tanzania	Njombe	Ester	Mlowe	Female	1	AFO	2
91	Tanzania	Njombe	Aram	Jenera	male	46	LAK	1
92	Tanzania	Njombe	Benard	Kiwele	male	13	Wrist Orthosis	1
93	Tanzania	Njombe	Heri	Lwila	male	29	LBK	1
94	Tanzania	Njombe	Goodluck	Tunguhole	male	1	AFO	2
95	Tanzania	Njombe	Jimeson	Mwasuku	male	56	FO	1
96	Tanzania	Njombe	Ezekiel	Mwakibinga	male	60	Wrist Orthosis	1
97	Tanzania	Njombe	Batholomew	Mmwinyi	male	39	LBK	1
98	Tanzania	Njombe	Loi	Mtemela	Female	15	AFO	2
99	Tanzania	Njombe	Giganga	Madinhile	male	45	LBK	1
100	Tanzania	Njombe	Blanka	Husein	male	2	AFO	2
101	Tanzania	Njombe	Elizabeth	Lwila	Female	9	LBK	1
102	Tanzania	Njombe	Tumaini	Mbilinyi	Female	19	LBK	1
103	Tanzania	Njombe	Savio	Msigwa	male	30	LAK	1
104	Tanzania	Njombe	Magreth	Keshomshaa	Female	41	AFO	1
105	Tanzania	Njombe	Joyce	Kimalila	Female	19	AFO	1
106	Tanzania	Njombe	Elisha	Masambamba	male	2	Elbow Orthosis	1
107	Tanzania	Njombe	Veronica	Sanga	Female	1	Wrist Orthosis	1
108	Tanzania	Njombe	Rizael	Charles	Female	1	AFO, Elbow Orthosis	2
109	Tanzania	Njombe	Haroon	Mwambashi	male	5	AFO	1
110	Tanzania	Njombe	Luis	Mwahele	Female	47	LBK	1
111	Tanzania	Njombe	Haroon	Elia	male	12	AFO	2
112	Tanzania	Njombe	Mariam	Malizen	Female	55	RAK	1
113	Tanzania	Njombe	Joctan	Gwivaa	male	64	RAK	1
114	Tanzania	Njombe	Mutasiwa	Masonda	male	40	AFO	1
115	Tanzania	Njombe	Wilhard	Lwiva	male	55	AFO	1
116	Tanzania	Njombe	Paskali	Mlowe	male	22	KAFO	1
117	Tanzania	Njombe	Juma	Mwaselela	male	47	AFO	1

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118	Tanzania	Njombe	Sinedi	Siwale	male	40	AFO	1
119	Tanzania	Njombe	Jackson	Rwegoshole	male	23	FO	1
120	Tanzania	Njombe	Mamisa	Diwani	Female	11	FO	2
121	Tanzania	Njombe	Baraka	Nenge	male	17	FO	1
122	Tanzania	Dar Es Salaam	Shukudru	Ngota	male	41	LB Elbow	1
123	Tanzania	Dar Es Salaam	Agness	Mjema	Female	27	RBK	1
124	Tanzania	Dar Es Salaam	Abdallah	Kimbulu	male	59	RBK	1
125	Tanzania	Dar es salaam	Nasra	Mgonja	Female	33	RBK	1
126	Tanzania	Dar es salaam	Abedi	Lunje	male	33	LBK	1
127	Tanzania	Zanzibar	Ali	Abdallah	male	30	LB Elbow	1
128	Tanzania	Zanzibar	Said	Khamis	male	41	LBK	1
129	Tanzania	Zanzibar	Salama	Abdallah	Female	21	LBK	1
130	Tanzania	Zanzibar	Rahma	Machano	Female	15	LBK	1
131	Tanzania	Zanzibar	Saleh	Khamis	male	41	RBK	1
132	Tanzania	Zanzibar	Ali	Juma	male	45	RBK	1
133	Tanzania	Zanzibar	Ramadhan	Said	male	31	LAK	1
134	Tanzania	Zanzibar	Mariam	Amour	Female	18	LBK	1
135	Tanzania	Dodoma	Paskal	Mshana	male	43	RBK	1
136	Tanzania	Dodoma	Beatrice	Matemba	Female	45	Double AK	2
137	Tanzani	Dodoma	Sifuni	Edward	male	35	Double BK	2
138	Tanzania	Dodoma	Abeid	Mtekateka	male	51	LBK	1
139	Tanzania	Dodoma	Dominic	Mbelle	male	26	Double BK,RB Elbow	2
140	Tanzania	Dodoma	Alex	Mhando	male	45	L Below Elbow	1
141	Tanzania	Dodoma	Dominic	Mbelle	male	26	R Below Elbow	1
142	Tanzania	Dodoma	Hussein	Msuri	male	23	RAK	1

Legenda:

O&P	Orthotic and Prosthetic
L/R AK	Left or Right Above Knee Prosthesis
L/R BK	Left or Right Below Knee Prosthesis
AFO	Ankle-Foot-Orthosis
HKAFO	Hip, Knee-Ankle, Foot Orthosis
KAFO	Knee-Ankle, Foot Orthosis
L/B B-Elbow	Left or Right Below Elbow

Appendix 2 - Testimonials

TESTIMONIAL – Ali Juma Abdallah, 30 years old from Tanzania



Ali has a left hand amputation below the elbow

Ali used to be a goalkeeper for “The Negros FC”, a second division football team in Zanzibar. On a sunny afternoon in 2011 he and the team were returning from winning an away-match against Mgheri Hajiwith.

As they were travelling down the Piange Road near the town of Zanzibar, the driver lost control of the speeding vehicle. The mini-bus already with break problems but now all filled with team members flipped over before coming to a halt. Ali being closest to the passenger door, was flung through the open window. He was the only person who sustained severe injuries.

Ali's first memory is seeing his hand trapped in the minibus' door. The driver shouted for people to gather around and assist in freeing him. Once released Ali saw his wrist was severely wounded.

That night, despite all efforts to save as much of his hand as they could, doctors ended up amputating his hand at the radio level. Ali was discharged 9 days later. Once his wound was sufficiently healed, he was fitted with a mechanical prosthesis later that year but it broke after a few years of constant use. Before the accident, Ali was studying to become a plumber. The loss of his arm also drastically reduced his chances of getting a job and completing his studies in this field. With a heavy heart, Ali began to adapt to his new identity as a 'disabled' person.

His new myoelectric hand prosthesis has made him very happy because it has increased the number of activities he can perform, like riding his bike, carrying out small repair jobs but most of all it allows him a much higher level of independence. With his new prosthesis, he hopes to get a job and build his own grocery shop.

Ali was awarded a myoelectric hand prosthesis in Dodoma the 25th October 2017

TESTIMONIAL – Hussein Idrissa Msuri, 23 years old from Tanzania

In 2015 Hussein had a job repairing electrical lines near his home town of Candoa, near Dodoma in Tanzania. The live cables came too close together causing high voltage electricity to shoot through his body knocking him off his 4-meter-high ladder.

His assistant who was holding the ladder, together with his father took him to the local hospital. As the shock of his accident wore off after three days, the pain of his singed legs and chest caused him a lot of pain. A week later Hussein was transferred to a hospital in Dar es Salaam where they amputated his right leg above the knee. After 2 months of recuperation and rehabilitation Hussein was sent home to his wife and child but life was not at all as it had been before.

A new leg for Hussein means a new chance of life. His renewed mobility means he can be the man, father and husband he was before he got, quite literally, the shock of his life.

SwissLimbs gave Hussein a first prosthesis in November 2017