

HUMAN STUDY



KNOWLEDGE FOR A BETTER LIFE

SCHOOL OF REHABILITATION SCIENCES



ANNUAL REPORT & ACCOUNTS

APRIL–DECEMBER 2020



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FOREWORD

David Buchanan – Chair of the board



Human Study UK are the only UK registered charity internationally delivering an internationally accredited, blended learning programme to people working in prosthetics and orthotics (P&O).

We are one of only two organisations in the world able to offer this, the other being our sister organisation based in Germany, who developed this programme.

We are incredibly proud that within our first nine months of operation we secured two grants, one from the Chalk Cliff Trust to kickstart our fundraising and website, as shown in this year's accounts. That in turn helped us secure a grant of £110,471 from the Sir Bobby Charlton Foundation over two years to train the first ever group of students in the Middle East to graduate as teachers of P&O; able to train others to globally accredited standards.

The Sir Bobby Charlton Foundation had previously funded the same students through their first year of studies through a partnership between Human Study Germany and the Legacy of War Foundation. We are incredibly grateful for their continued support of these students who are due to graduate in November 2022. As the only people trained to this level in the whole region, we know that their teaching skills will be in high demand inside, and beyond Syria.

We are especially pleased to be partnering with the foundation set up by Sir Bobby who as well as being a legendary footballer and national treasure; is someone

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who understands trauma on a personal level having survived the Munich air crash. Sir Bobby's commitment to eliminating landmines and the damage they cause is a passion shared by all at Human Study UK, and all our partners in the field working to repair some of the damage they cause.

Upon graduation these teachers will work alongside more experienced tutors training people working within Syria to internationally accredited standards. Eventually, they will be given all the course materials and content, and access to our online platform, and western training providers will no longer be needed in Syria.

We have also developed plans to translate our training for people at all levels of study in Arabic. Currently the vast majority of courses in P&O globally

FOREWORD

continued

“Over half of the people already working in clinics in areas of extreme need cannot access formal education, or qualify in their field, because they do not speak sufficiently good English.”

are taught in English. We know that over half of the people already working in clinics in areas of extreme need cannot access formal education, or qualify in their field, because they do not speak sufficiently good English to study at further or higher education level. Our sister organisation in Germany has been funded by the ICRC to translate two modules of the 7-module general training course that all ISPO accredited clinicians must complete into Arabic, and we are on a mission to fund the other five modules between us and hope to have great news to report in our next annual report.

We also plan to support NSPPL, our partner on the ground in Syria and Turkey and the clinic the majority of our current graduates come from, to develop a



“We are beginning to build a movement, powered by people who have suffered limb loss to ensure decent prosthetic and orthotic services are available globally.”



regional centre of excellence for P&O training from which they can themselves be delivering the courses in Arabic. We will also provide access to the full set of translated course materials, in Arabic, to all other accredited and respected training providers in the region.

We have a plethora of other projects in development for the coming year across the Middle East and Africa. Our plans reflect our ambitions which, whilst high for a small charity; reflect the sad reality of a world where the need for our expertise is driven by war and we have yet to eradicate this.

We are beginning to build a movement, powered by people who have suffered limb loss or and their friends and families; to ensure decent prosthetic and orthotic services are available globally. This will be a priority for us next year.

FOREWORD

continued

“We support the campaign for the world to be Landmine-free by 2025.”



In our field, is it hard not to wish for the eradication of all war but we appreciate that is unlikely. If war stopped consistently and routinely inflicting unnecessary death, grief and injuries on future generations through landmines and other latent weapons, this would be progress.

Until landmines are no longer used as a weapon of war, we know that there will be high and entirely preventable need for prosthetic and orthotic services for decades after conflict ends. Historic landmines are especially cruel in that those least likely to avoid areas where they lay are children seeking spaces to play.

Human Study UK supports calls for the universal and immediate banning of landmines and will work alongside our partners within and beyond the

“Our partners and students are faced daily with the lives and the bodies of children and adults of all ages blown apart by war’s weapons.”

Sir Bobby Charlton Foundation in reminding the world why we cannot keep waiting for this. We support the call and campaign for the world to be Landmine-free by 2025.

We salute the immense focus and dedication that our partners and students show in their quest to offer excellent treatment to everyone who needs it in Syria. With caseloads at least treble those of a UK clinician and waiting lists at least ten times higher than clinicians would have in the UK, a severe lack of qualified staff, and a conflict that shows little sign of abating; our students are almost as vulnerable to PTSD as the people that they are treating. They are faced daily with the lives and the bodies of children and adults of all ages, blown apart by war’s weapons. The huge demand for services coupled with constant shortages of funding, materials and equipment means that for our partners working in Syria and other war zones face incredible stress. That our students manage to pass their courses in a second language whilst working in such circumstances is testimony to the incredible people that they are. We thank you all for the energy and focus with which you approach learning.

We dedicate this report to everyone who needs prosthetics and / or orthotics, whether this need arose from birth, illness, accident or war. The determination of people to get on with building, rebuilding, or preserving full and active lives is what powers our work.

THE YEAR IN NUMBERS

1,000

Number of accredited
P&O clinicians/technicians
estimated to be needed
in Syria:

8

Number of students training
to teach P&O in Syria – the first
8 people in the Middle East
training to qualify at this level.

Number of accredited
clinicians/technicians currently
working in Syria:

32

Number of people treated by
our partner in Syria this year:

4,600



Number of new P&O devices
fitted by our students this year:

838

Number of people estimated to
need P&O services in Syria alone:

180,000



CASE STUDY 1

TECHNICIAN

Abdulrahim Haj Kallouf
Technician at NSPPL Al-Bab

Patient characteristics:

- 35 years old
- P&O technician assistance
- K Level: 5
- Hobbies: Body building sport
- Effected side: both lower limbs / Below knee amputations

Prosthetic devices were made with the following components:

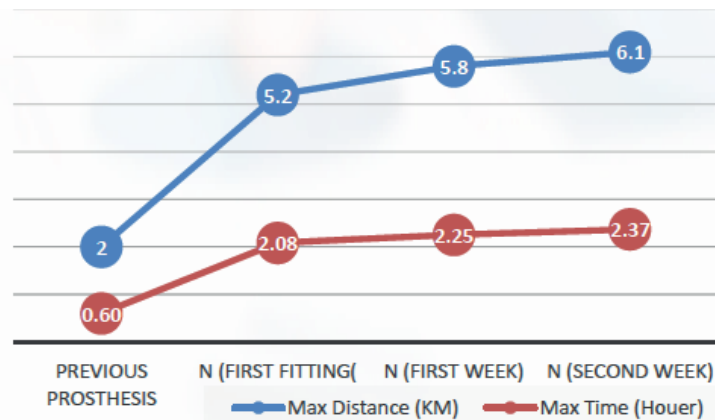
RCR socket is a socket design, which part of the knowledge provided to us during the fourth semester of Cat 1 program in the subject of advanced prosthesis 2.

The user used the devices for three weeks, and in the following are the results achieved through the using the new devices the differentiation between the previous and new devices.

The functionality of the new prostheses are shown in the chart opposite. The patient is satisfied with the new prosthesis and his overall health has improved.

He plans on improving his abilities by following a body building training programme using the prostheses.

Function improvement



PATIENT

H.A.



EFFECTED SIDE

Left Bot lower limbs
Below knee amputation



RESULT

		Max. Distance	Max. Time	Technician Comment	User Comment
	Previous Prosthesis	1.5 KM	30 Minutes	1. Pistoning movement R/L. 2. Wide prosthesis R/L 3. Pressure on the right Patella tendon	1. Pain in the distal end of Tibia on the left side 2. Pain in the Patella tendon on the right side
New prosthesis	First Fitting	2 KM	36 Minutes	1. Right Patella tendon pain relieved 2. Slight Pain in the left side in the distal medial, because of high pressure caused by applying carbon stockinet during the cast. it has been relieved after heating and refitting	1. The right Socket is comfortable 2. The left side isn't well fitted at the distal circumference
	First week	5.2 KM	125 Minutes	1. The Prostheses are good and gives great results. 2. Skin condition has got better.	1. The prostheses are good and the best devices I have ever used 2. I feel weight is well distributed around the stump
	Second week	5.8 KM	135 Minutes		
	Third week	6.1 KM	142 Minutes		





TECHNICIAN
Fatima Almubarak
Technician at
NSPPL – Reyhanli

CASE STUDY 2

When my patient came in she was nervous. The past few years have been difficult for her.

I evaluated her situation and decided the Bellman technique was best for her case. Bellmen is a new technique and one of the production skills I learned whilst studying with Human Study. We have now started using it in the production of prosthetics.

In the past my patient experienced constant pain – the previous limb was not suitable for her. Other designs restrict the mobility of the ankle, although there are some cases where the ankle attachment has no problem in its range of motion.

The Bellman technique keeps the range of motion for this patient, finally relieving pressure on the stump through creating a better balance for the load. She feels more confident as she engages in her daily activities.



PATIENT
R.H.



EFFECTED SIDE
Left side: below knee
(Ankle disarticulation)



RESULT

Lower Limbs		ROM	
		Left	Right
HIP:	Flexion	130°	130°
	Extension	11°	14°
	Abduction	30°	38°
Adduction		20°	25°
Internal rotation		35°	40°
External rotation		40°	42°
KNEE:	Flexion	123°	130°
	Extension	5°	5°
ANKLE: DF		0°	0°
PF		0°	35°

HUMAN STUDY UK

Statement of financial activities for the year ended 31 December 2020

Income:	Unrestricted £	Restricted £	Total funds £
Total Income for the period:	14	3,000	3,014
Total Income:	<u>14</u>	<u>3,000</u>	<u>3,014</u>

Expenditure:			
Total Direct Expenses:	0	1,629	1,629
Total Administrative Expenses:	14	0	14
Total Expenditure:	<u>14</u>	<u>1,629</u>	<u>1,643</u>
Total (Deficit)/Surplus:	<u>0</u>	<u>1,371</u>	<u>1,371</u>

Balance Sheet as at 31 December 2020		£
Assets		
Bank		1,371
		<u>1,371</u>
Total Current Assets		1,371
Total Fixed Assets		0

The accounts were approved by the trustees on 27 October 2021.
and signed on their behalf by David Buchanan.

FUTURE PLANS

We plan to:

- create the first internationally accredited Category 2 General Practitioner Prosthetic & Orthotic (P&O) training course in Arabic,
- secure funding for the development of the first Internationally Recognised and Accredited P&O training facility in Ghana,
- secure funding to train 12 Prosthetist/Orthotists to BSc Degree level Prosthetists/Orthotists (graduate teachers) in Ghana,
- secure partnerships and funding to train 10 prosthetic technicians in lower limb modules for above knee and below knee prostheses over a 10 month programme in Armenia,
- establish delivery and funding partnerships for the creation of training programmes in Sierra Leone and the Democratic Republic of Congo,
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- secure funding to appoint PT CEO.

ACKNOWLEDGEMENTS

We would like to thank the **Chalk Cliff Trust** for giving us our first donation and getting us started in the UK.

We would like to thank the **Sir Bobby Charlton Foundation** who began funding us in November (first payment received in the next financial year) and whose gift will help transform P&O services in Syria.

We would also like to say thank you to **John Mitchell**, our volunteer CEO in our first year. John is moving to Canada and will be supporting the set-up of Human Study in North America, and Human Study UK are seeking funding for a PT CEO to replace him.

We would like to thank all the students and staff at **NSPPL**, our Syrian partner, for the tremendous work that they are doing in incredibly difficult circumstances.

Our delivery in Syria and Turkey has been made possible by the dedication and incredible commitment shown by **NSPPL**, our training partner on the ground in Idlib and Al Bab in Syria and Reyhanli, Turkey. We salute the teams working inside Syria for their courage and dedication to supporting people injured by war to gain their lives.

We could not have achieved what we have achieved this year without the ongoing support, access to tutors and teaching materials and mentoring that the team have received from **Christian Schlierf** and the team at **Human Study**, our sister organisation in Germany.

Finally we would like to thank **Giles Duley** and the **Legacy of War Foundation**, whose support and partnership enabled us to start our programme in Syria.