

2016-08-11	Consultation	3D Scan	Rectified Positive	3D Socket	3D Printing	Fitting + Adjustment	Rehab + Physiotherapy
Thinking	What info am I missing?	Did I get the entire limb?	Am I accounting for all anatomical features?	Hope it worked!		Is the patient comfortable?	What do I need to tell them?
	How do I build rapport & trust?	Is there enough light in here?	How do I solve this weird tricky fitting?			Are there errors in the socket?	
	How complicated will this case be? Do I understand the procedure?	Is the patient comfortable? Is the scan accurate? Do I need to ask the patient to sit different?	Do I need someone to review or advise?			How can I adjust any sockey errors? Will I have to start the process over?	
	Informing the patient & next of kin					Do I need more than one liner?	
Feeling	Optimistic/hopeful		Am I doing this wrong?		Professional accomplishment	Frustraton about patient rejecting intervention (in that event)	Joy and happiness
	(Or) Hopeless		This is really hard There are too many "corners" (difficulties/concerns)		Pride & relief		(Or) Doubt re: bad patient outcome - is it me or the patient?
Doing	Measuring limb	Opening Skanect software Using 3D scanner to scan limb three times	Converting 3D scan to positive	Opening rectified positive in mesh mixer software (OrthoGen) Inputting numbers to give volume to rectified positive	Ensuring printer 'stage' is level	Making liner for socket	Instructing patient on care of prosthetic and limb
	Talking to patient Consulting orthopedic surgeon & other staff	Choosing the best of the three scans Saving file output to folder on hard drive	Manipulating positive output Saving file output to folder on hard drive	Stress test algorithms (CSV output)	Sending 3D socket model to printer	Observing gait	Consulting with social/community worker
	Consulting chart Patient observation		Troubleshooting the software		Heating up and fusing ends of socket	Talking to patient	Following up with and checking up on patient
						Making small re-adjustments Fusing bolt and socket interface	
Pain points		Getting timely feedback	Getting timely feedback	Getting timely feedback	Getting timely feedback 3D printer issues (breaking, malfunctioning, stage not level etc.)		
System inputs + outputs <i>Periodic sync (to account for internet latency)</i>	Care provider data Patient demographics (e.g. age, sex, weight) Reason for prosthetic & intervention Other medical conditions Presentation (e.g. bilateral)	3D scan of limb	3D rectified positive	3D socket model with stress test colours		Videos Photos Patient survey	
	How does the system support the user?	Patient file data available Easily view other encounters with a repeat patient	Initiate a new case in the system Reference previous scans Automatically 'sucks in' the best scan	Reference to previous rectifications Look up support forums/how to's Automatic 'suck in' of rectified positive	Automatic 'suck in' of 3D socket Automatic 'suck in' of stress test CSV		Reference similar patient questionnaires Reference similar patient case histories Show patient existing photos and videos from other cases Prosthetist questionnaire