Achilles Tendon Insertion Reconstruction: Post Operative Accelerated Rehabilitation Protocol

Operative Summary
The Achilles has been detached and the large piece of bone from the back of the heel, removed. The Achilles is then reattached.

Day of Operation (week 1)
Vacoped boot placed on leg while under anaesthetic, locked in equinus (foot pointing down, 30 degrees)  
Full weight-bearing mobilization (as much weight as comfortable). Early weight bearing has been shown to statistically improve time to return to activities including work, sports, and normal walking)  
2 crutches until confident to walk without  
Anaesthetic block may take up to 24 hours to wear off (you may be numb and weak from the knee down)  
Regular pain relief as required (Eg. Paracetamol, Coedine and Diclofenac)

Leg Elevation and Boot Care – The First 2 Weeks Post Operatively
Elevate the ankle at the level of the chest, for 23 hours a day for 7 days (for pain relief, swelling and wound healing)  
Place 2 pillows under your mattress for elevation when sleeping.  
Elevation at the level of the heart, for 12 hours a day for 7 further days  
Keep the boot dry.  
Move toes, knee and hip

Bandage and the Dressing – After 48 hours
After 48 hours, remove the leg from the boot, taking care to keep the foot in a tip toe position.  
Remove the white bandage (and gauze underneath) yourself.  
A dressing will remain underneath – leave this on. There may be some blood staining on the dressing, this is normal. You can have a light shower but wrap cling film around the dressing to aid waterproofing.  
Alternatively, you may use a ‘cast / bandage protector for bathing’, available on-line Eg. LimbO, Bloccs  
Do not have a bath until the wound has been reviewed by Mr Gordon at 2 weeks after surgery.  
Do not put weight through the leg without the boot on.
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The Boot (VacOped)
The boot can be removed when seated, for bathing, but when off, no weight through foot
The boot must remain on at all other times
Sleeping - The boot must remain on during sleep until the end of the 4th week

Post Operative Accelerated Rehabilitation Protocol

After 2 Weeks Post Operatively (Post Operative Week 3)
Outpatient visit – Seen by Mr Gordon
Vacoped boot removed, wound inspected and stitches trimmed
Continue full weight-bearing
Start physiotherapy – at home and in outpatients (see below)

Adjustment of Vacoped Boot:
The boot will be set by Mr Gordon following the operation, while you are asleep.
Please read the instructions on how to adjust the boot (see http://www.davidgordonortho.co.uk/wp-content/themes/drgordon/pdf/vacoped-fitting-instructions.pdf)
At week 3 and for all subsequent weeks, only adjust the lower ‘angle restrictor’ using the grey key provided, this will allow more ankle movement in a gradual and controlled manner.
One notch on the boot equals 5 degrees.
Follow the protocol below:

<table>
<thead>
<tr>
<th>Week</th>
<th>Vacoped Range of Motion to be Set (full weight bearing throughout)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>30 degrees only (tip toe position only)</td>
</tr>
<tr>
<td>2</td>
<td>30 degrees only (tip toe position only)</td>
</tr>
<tr>
<td>3</td>
<td>30-20 degrees (very slight ankle movements)</td>
</tr>
<tr>
<td>4</td>
<td>30-20 degrees (very slight ankle movements)</td>
</tr>
<tr>
<td>5</td>
<td>30-10 degrees (increasing ankle movements). Change to flat sole</td>
</tr>
<tr>
<td>6</td>
<td>30-10 degrees (increasing ankle movements). Keep flat sole</td>
</tr>
</tbody>
</table>

6 Weeks Post Operatively
Outpatient visit – Seen by Mr Gordon
Assessment of tendon healing, ankle motion, calf power, gait
Discard boot and into normal shoe full weight bearing
Continue physiotherapy

Post Operative Accelerated Rehabilitation Protocol

3 Months Post Operatively
Outpatient visit – Seen by Mr Gordon
Assessment of tendon healing, ankle motion, calf power, gait, discuss sporting aspirations
Continue physiotherapy. Start jogging
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6 Months Post Operatively
Outpatient visit – Seen by Mr Gordon
Assessment of tendon healing, ankle motion, calf power, gait, discuss sporting aspirations
Continue physiotherapy if required. Start sports requiring explosive activities

Driving
You need to be able to control the vehicle in an emergency. Can you stamp your foot down on the ground? For left sided surgery and no clutch is required, driving is probably safe at 2 weeks post operatively. For right sided surgery, driving is probably safe at 6 weeks post operatively, once in a normal shoe. If you are unsure, please ask Mr Gordon.

Return to Sport
There is a lack of evidence to recommend specific timings for returning to sport. A decision should be made with in consultation with Mr Gordon and your physiotherapist. Above timings are guidelines only.

Rehabilitation Summary. Operation occurs on first day of ‘Post Operative Week 1’
Post Operative Week 3 & 4
Soft tissue massage
Out of boot: Active plantar flexion with Theraband, limit dorsiflexion to degree set in boot
Exercise bike with boot on

Post Operative Week 5 & 6
Active plantar flexion with Theraband
Seated heel raises
Out of boot: Full plantar flexion, inversion and eversion, limit dorsiflexion to the angle of degrees set in the boot (see Rehabilitation Summary table)
Proprioception/balance, Gait re-education
Achilles Tendon Repair:

Post Operative Week 7 onward (boot discarded)
Gentle weight bearing dorsiflexion stretch (lunge position)
Eccentric/Concentric loading (bilateral to single. Emphasise eccentric phase)
Single stairs
Progress to upslope and downslope
Low impact exercises - e.g. cycling
Monitor inflammation signs and rehabilitation accordingly

3 Months Post Operatively
Jogging progressing to fast acceleration & deceleration
Directional running / cutting
Pylometrics. e.g. toe bouncing upwards / forwards /directional
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Reference List