

<p>Unanswered questions discovered by the PSP that fell outside of the 25 discussed at the priority setting workshop.</p>	<p>Question reference number. These are in no order of priority</p>
<p>4.7 What is the effectiveness of bone protection medication in promoting healing in adults with a fracture of the lower limb?</p>	<p>26</p>
<p>11.3 How effective are specialist trauma wards for older people compared to current care for adults with a fracture of the lower limb?</p>	<p>27</p>
<p>1.1 What is the best pain relief, including non-drug therapies and alternatives to reduce morphine or opioid use, for adults with a lower limb fracture before arrival in hospital?</p>	<p>28</p>
<p>9.1 How often is diagnosis of a fragility fracture delayed and how can this be improved?</p>	<p>29</p>
<p>6.10 What are the support needs of the family and carers of adults recovering from a lower limb fracture?</p>	<p>30</p>
<p>5.4 What are the consequences of worsening confusion after surgery in patients sustaining a fracture of the lower limb?</p>	<p>31</p>
<p>8.1 What are the best physical therapies to treat adults at risk of anxiety and depression following a lower limb fracture?</p>	<p>32</p>
<p>3.27 What is the best antibiotic/s to prevent surgical site infection in adults undergoing surgery for fractures of the lower limb?</p>	<p>33</p>
<p>3.14 What is the best surgical treatment for fractures of the distal femur (the thigh bone close to the knee)?</p>	<p>34</p>

11.7 Does involvement in research and clinical trials improve care and outcomes for adults with fractures of the lower limb?	35
2.2 What are the best nutritional supplements (such as vitamins, protein drinks, etc) for adults with a fracture of the lower limb during in-hospital rehabilitation after surgery?	36
7.3 Which patients are more likely to develop a fear of falling after a fracture of the lower limb?	37
8.2 What are the best psychological support methods (e.g. talking therapies, community support services) to treat adults at risk of anxiety and depression following a lower limb fracture?	38
3.19 What is the best treatment for fractures of the foot and ankle where surgery would not be effective?	39
2.3 What are the best nutritional supplements (such as vitamins, protein drinks, etc) for adults with a fracture of the lower limb for long-term supplementation after discharge from hospital?	40
4.6 Do adults with fractures due to the side effects of bone protection medication have worse outcomes <i>compared</i> with adults after fractures which are unrelated to medication?	41
1.7 What is the best pain relief, including non-drug therapies and alternatives to reduce morphine or opioid use, for adults with a lower limb fracture for long term pain more than 6 months after injury?	42
11.9 How best can patients and carers be supported (e.g patient networks, support groups) following a fracture of the lower limb?	43
5.1 What is the effect of general anaesthetic (being asleep during surgery) compared with epidural or local anaesthetic (regional anaesthesia) on early postoperative outcomes and recovery of patients with a lower limb fracture?	44
3.12 What is the best surgery for fractures around the hip socket (acetabulum)?	45
3.18 What is the best surgical treatment for fractures of the ankle?	46

3.24 What is the best treatment for fractures around existing implants (periprosthetic fractures)?	47
3.11 How effective is surgery <i>compared</i> with non-surgical treatment for fractures of the pelvis?	48
8.3 What is the best assessment method/s to identify and predict those at risk of developing anxiety and depression following a lower limb fracture?	49
3.6 Does the position of the surgical incisions to skin and muscles (the surgical approach) affect outcomes in adults undergoing surgery for a hip fracture?	50
3.7 What is the best surgical treatment for unstable hip fractures outside of the hip capsule (trochanteric) in adults?	51
3.10 What is the effect of the surgeon experience on the outcome of hip fracture surgery in adults?	52
9.2 What is the effectiveness of tools used to diagnose a lower limb fracture in adults before arriving in hospital?	53
4.4 Have national guidelines aimed at reducing harmful blood clots been effective in adults with a hip fracture?	54
5.5 What is the best way to prevent a low blood count after surgery in adults with a lower limb fracture?	55
6.13 Can we predict which are the most important aspects of care, (from both the patient and healthcare providers point of view) in the recovery of a lower limb fracture?	56
3.16 What is the best treatment for fractures of the tibial plateau (the top of the shin bone which forms part of the knee joint)?	57
2.4 What is the best method to assess nutritional needs and guide supplementation in adults with a fracture of the lower limb?	58
1.2 What is the best immobilisation device (such as a splint or similar device to reduce painful movements of the affected limb) to transfer adults with a suspected hip fracture?	59

3.2 How effective is a partial hip replacement <i>compared with</i> total hip replacement in adults undergoing treatment for a hip fracture?	60
4.5 Do adults with lower limb fragility fractures who take medications to thin the blood, such as Warfarin, have delays to surgery and increased blood loss?	61
11.8 Is there a geographical variation in the quality of care provided for adults with a fracture of the lower limb?	62
3.17 What would be the effect of setting national treatment targets (such as waiting time to surgery) which each hospital has to meet for all fractures of the lower limb?	63
3.20 What is the best treatment for fractures of the joint between the tibia and fibula at the bottom of the shin (syndesmotic injuries) in adults with a fracture of the ankle?	64
3.4 How effective and safe is a modern cemented partial hip replacement <i>compared with</i> a modern cementless replacement in adults undergoing surgery for a hip fracture?	65
3.13 What is the effectiveness of reinforcing surgical fixation using cement or bone substitute <i>for</i> fractures of the hip and pelvis?	66
3.15 What is the best treatment for fractures of the knee-cap (patella)?	67
3.8 Does the length of time it takes to complete surgery affect the outcomes following hip fracture surgery?	68
3.23 What is the best method of pin site care in adults undergoing treatment with an external metal frame for a fracture of the lower limb?	69
3.25 What is the best wound dressing (including no dressing) for lower limb fractures?	70
3.1 What is the role of non-surgical treatment (allowing the bone to heal naturally without surgery) in some adults with a hip fracture?	71
2.1 What are the best nutritional supplements (such as vitamins, protein drinks, etc) for adults with a fracture of the lower limb before surgery, and immediate recovery after surgery?	72

4.8 Does the use of medication to treat anxiety and depression (e.g. antidepressants) slow healing time in adults following a fracture of the lower limb?	73
11.1 How effective are virtual clinics (via telephone or other means) compared with conventional face-to-face clinics in adults with fractures of the lower limb?	74
6.12 What is the role of accelerometers, movement monitors, and novel technologies in the recovery and outcomes of adults with a lower limb fracture?	75
11.10 What is the impact of open visiting times in hospitalised adults with a fracture of the lower limb?	76