Table B: Impact Loading (Adapted from Beck et al, 2017)4-7 days a week of x 50 contacts a dayConsider adjusting frequency of sessions when the athlete returns to running

<b>Risk of Low Trauma Fracture Classification</b> (NB: Z score value favourable in younger athletes/dancers)		
<ul> <li>Low Risk</li> <li>Normal BMD T-score &gt;1.0 SD</li> <li>No clinical risk factors</li> <li>Aim to maximise bone mass/strength and improve muscle strength</li> <li>Combine with resistance training, multi-directional sporting activities and balance exercises</li> </ul>	<ul> <li>Moderate Risk</li> <li>Low BMD T score - 1.02.5 SD</li> <li>Clinical risk of fractures</li> <li>Aim to preserve and improve bone mass and strength</li> <li>Improve muscle strength, power and balance</li> <li>Combine with resistance training, multi-directional sporting activities and balance exercises</li> </ul>	<ul> <li>High Risk</li> <li>Osteoporosis, T score &lt; 2.5 SD</li> <li>Previous fractures and multiple risk factors</li> <li>Moderate impact activities</li> <li>Aim to preserve and improve bone density and strength</li> <li>Improve muscle strength, power and balance</li> <li>Combine with supervised high intensity resistance training</li> </ul>
Level Progress onto next level when completed x 2 sessions symptom free	Phase 1 Appropriate for all T-score levels (Moderate Impact)	Phase 2 Low and moderate risk factor groups (High Impact)
1	Heel drops 5 sets x 10 reps (1-min recovery)	Hopping on spot 5 sets x 10 reps (1- minute recovery)
2	Skipping rope 3 sets x 20 reps (1- minute recovery)	Side jumps, one leg onto the other 5 sets x 10 reps (1-minute recovery)
3	Side steps 5 sets x 10 reps (1-minute recovery)	Hopping side to side 5 sets x 10 reps (1-minute recovery)
4	Jogging on spot 3 sets x 20 reps (1- minute recovery)	Hopping forward & back 5 sets x 10 reps (1-minute recovery)
5	Jumping on spot 5 x sets x 10 reps (1-minute recovery)	Multi directional hopping 5 sets x 10 reps (1-minute recovery)
6	Forward/backward jumping 5 x sets x 10 reps (1-minute recovery)	Land from small step onto two legs 5 sets x 10 reps (1-minute recovery)
7	Side to side jumping 5 x sets x 10 reps (1-minute recovery)	Land from small step onto one leg 5 sets x 10 reps (1-minute recovery)
8	Multidirectional jumping 5 x sets x 10 reps (1-minute recovery)	Split jumps off step 5 sets x 10 reps (1-minute recovery)
9	Step ups 5 sets of 10 reps (1-minute recovery)	Sidewards single leg land off step 5 sets x 10 reps (1-minute recovery)
	Progress to phase 2 if appropriate - if high risk, start sports specific impact activities	Progress to sports specific impact activities as required e.g. running drills, shuttle running, multi directional

runs and return to play activities