

Supplementary Material

Supplementary Table 1: Match time loss, non-time loss and total injury incidence (per 1,000 days play) for competition format with the % change between the 2020 season and historic average

	TL injury incidence (per 1,000 days play)			NTL injury incidence (per 1,000 days play)			Total injury incidence (per 1,000 days play)		
	2020 (95% CI)	2015-2019 Mean (95%CI)	%Change	2020 (95% CI)	2015-2019 Mean (95%CI)	%Change	2020 (95% CI)	2015-2019 Mean (95%CI)	% Change
First-class	81.8 (56.1, 119.3)	69.5 (62.4, 77.4)	18%	154.5 (117.4, 203.3)	133.0 (123.0, 143.8)	16%	236.4 (189.4, 295.1)	202.5 (190.1, 215.7)	17%
T20	130.7 (86.9, 196.7)	152.5 (132.1, 176.1)	-14%	164.8 (114.5, 237.2)	183.4 (160.9, 209.0)	-10%	295.5 (225.2, 387.8)	336.0 (305.0, 370.1)	-12%

Note: Significant differences highlighted in bold

Supplementary Table 2: Match time loss, non-time loss and total injury incidence (per 1,000 days play) for each season (2015 to 2020) by competition format

	2015	2016	2017	2018	2019	2020
Test (4-Day)	67.3 (53.4, 84.8)	51.3 (39.5, 66.7)	76.0 (60.2, 95.9)	71.3 (55.6, 91.5)	81.4 (64.6, 102.6)	81.8 (56.1, 119.3)
T20	150.8 (109.7, 207.2)	116.0 (80.6, 166.9)	145.2 (104.7, 201.3)	161.4 (118.8, 219.2)	189.2 (139.8, 256.0)	130.7 (86.9, 196.7)
Non-time loss injury incidence per 1,000 days play (95% CI)						
Test (4-Day)	81.3 (65.9, 100.3)	109.9 (91.9, 131.4)	146.7 (124.1, 173.4)	169.0 (143.8, 198.7)	158.4 (134.2, 186.9)	154.5 (117.4, 203.3)
T20	123.0 (86.5, 174.9)	188.0 (141.3, 250.2)	153.2 (111.5, 210.5)	263.8 (207.6, 335.2)	189.2 (139.8, 256.0)	164.8 (114.5, 237.2)
Total injury incidence per 1,000 days play (95% CI)						
Test (4-Day)	148.6 (127.2, 173.6)	161.2 (139.1, 186.9)	222.7 (194.4, 255.1)	240.2 (209.7, 275.1)	239.8 (209.6, 274.4)	236.4 (189.4, 295.1)
T20	273.8 (216.3, 346.7)	304.0 (242.8, 380.6)	298.4 (237.6, 374.8)	425.2 (352.1, 513.5)	378.4 (305.5, 486.6)	295.5 (225.2, 387.8)

Supplementary Table 3: Match time loss, non-time loss and total injury incidence (per 1,000 days play) for activity at time of injury for First-Class and T20 competition

	TL injury incidence (/1,000 days play)			NTL injury incidence (/ 1,000 days play)			Total injury incidence (/1,000 days play)		
	2020 (95% CI)	2015-2019 Mean (95%CI)	%Change	2020 (95% CI)	2015-2019 Mean (95%CI)	%Change	2020 (95% CI)	2015-2019 Mean (95%CI)	%Change
Batting	31.6 (19.4, 51.6)	20.8 (17.5, 24.8)	52%	39.5 (25.5, 61.2)	38 (33.3, 43.3)	4%	71.1 (51.3, 98.6)	58.8 (52.9, 65.3)	21%
Bowling	35.6 (22.4, 56.5)	33.2 (28.9, 38.1)	7%	27.7 (16.4, 46.8)	36.9 (32.4, 42.1)	-25%	63.2 (44.7, 89.4)	70.1 (63.7, 77.1)	-10%
Fielding	27.7 (16.4, 46.8)	25 (21.3, 29.4)	11%	65.2 (46.4, 91.7)	47.9 (42.6, 53.8)	36%	92.9 (69.8, 123.6)	72.8 (66.3, 80.0)	28%
Warm Up	0.0 (0.0, 0.0)	2.3 (1.4, 3.9)	-100%	4.0 (1.0, 16.0)	3.6 (2.4, 5.4)	11%	4.0 (1.0, 16.0)	6.0 (4.3, 8.3)	-33%
Wicket keeping formats combined	0.0 (0.0, 0.0)	3.1 (2.0, 4.9)	-100%	4.0 (1.0, 16.0)	6.0 (4.3, 8.3)	-33%	4.0 (1.0, 16.0)	9.1 (7.0, 11.8)	-56%

Note: Significant differences highlighted in bold

Supplementary Table 4: Match time loss, non-time loss and total injury incidence (per 1,000 days play) for activity at time of injury with the % change for First-Class cricket

	TL injury incidence (/1,000 days play)			NTL injury incidence (/ 1,000 days play)			Total injury incidence (/1,000 days play)		
	2020 (95% CI)	2015-2019 Mean (95%CI)	%Change	2020 (95% CI)	2015-2019 Mean (95%CI)	%Change	2020 (95% CI)	2015-2019 Mean (95%CI)	%Change
Batting	18.2 (8.2, 40.5)	16.5 (13.2, 20.6)	10%	42.4 (25.1, 71.6)	36.2 (31.1, 42.1)	17%	60.6 (39.1, 93.9)	52.7 (46.5, 59.7)	15%
Bowling	39.4 (22.9, 67.9)	31.1 (26.5, 36.5)	27%	33.3 (18.4, 60.1)	38.1 (32.9, 44.1)	-13%	72.7 (48.7, 108.5)	69.2 (62.1, 77.1)	5%
Fielding	21.2 (10.1, 44.5)	15.6 (12.4, 19.6)	36%	57.6 (36.7, 90.3)	40.1 (34.8, 46.2)	44%	78.8 (53.7, 115.7)	55.6 (49.3, 62.7)	42%
Warm Up	0.0 (0.0, 0.0)	1.7 (0.9, 3.4)	-100%	6.1 (1.5, 24.4)	1.8 (0.9, 3.5)	239%	6.1 (1.5, 24.4)	3.5 (2.2, 5.6)	74%
Wicket keeping	0.0 (0.0, 0.0)	3.1 (1.9, 5.1)	-100%	3.0 (0.4, 21.3)	7.2 (5.2, 10.0)	-58%	3.0 (0.4, 21.3)	10.3 (7.8, 13.6)	-71%

Note: Significant differences highlighted in bold

Supplementary Table 5: Match time loss, non-time loss and total injury incidence (per 1,000 days play) for activity at time of injury with the % change for T20 cricket

	TL injury incidence (/1,000 days play)		NTL injury incidence (/ 1,000 days play)		Total injury incidence (/1,000 days play)	
	2020 (95% CI)	2015-2019 Mean (95%CI)	%Change	2020 (95% CI)	2015-2019 Mean (95%CI)	%Change
Batting	56.8 (30.6, 105.6)	37.6 (28.2, 50.2)	51%	34.1 (15.3, 75.9)	44.4 (34.0, 58.0)	-23%
Bowling	28.4 (11.8, 68.2)	41.7 (31.7, 54.9)	-32%	17 (5.5, 52.7)	33.0 (24.2, 45.0)	-48%
Fielding	39.8 (19.0, 83.5)	60.9 (48.5, 76.5)	-35%	79.5 (47.1, 134.2)	77.7 (63.6, 94.9)	2%
Wicket keeping	0.0 (0.0, 0.0)	3.2 (1.2, 8.5)	-100%	5.7 (0.8, 40.5)	1.6 (0.4, 6.4)	256%

Note: Significant differences highlighted in bold

Supplementary Table 6: Orchard code and description for medical illness recorded ordered by time loss injury count descending for the 2020 season

Orchard code	Description	TL injury count		In-season days lost	
		2020	2015-2019 Mean	2020	2015-2019 Mean
MICI	COVID-19 Isolated as contact	8	0	79	0
MICG	COVID-19 Antigen Test Positive	3	0	49	0
MICX	COVID-19	2	0	2	0
MGDX	Diarrhoea	1	1	1	4
MGXX	Gastrointestinal Illness	1	1	2	3
MICN	COVID-19 Self isolating with symptoms - No diagnosis	1	0	8	0
MIRT	Tonsillitis	1	1	21	4
MIRU	Other upper resp tract infection	1	1	1	1
MIRX	Respiratory tract infection (bacterial or viral)	1	1	3	4
MTXX	ENT Illness including dental (excl sinusitis - see MPAL)	1	1	1	6
Total		20	6 (18)	167	22 (179)

Note: For the 2015-2019 mean, the bracketed figure indicates the mean total number of injuries and in-season days lost for that injury type

Supplementary Table 7: Proportion of time loss, seasonal days lost, non-time loss and total injuries for each season (2015 to 2020) by injury problem type

	2015	2016	2017	2018	2019	2020
	Percentage of time loss injuries (95% CI)					
Medical illness	4% (2, 8)	6% (4, 10)	5% (3, 9)	8% (5, 12)	8% (6, 12)	17% (11, 26)
Match injuries	79% (68, 91)	68% (58, 79)	74% (64, 85)	66% (57, 76)	64% (56, 73)	51% (40, 65)
Other (non-cricket specific activity) injuries	3% (1, 6)	10% (7, 15)	6% (4, 10)	6% (4, 10)	5% (3, 8)	5% (2, 11)
Training injuries	14% (10, 20)	15% (11, 21)	15% (11, 21)	19% (15, 25)	22% (18, 27)	27% (19, 38)
	Percentage of seasonal days lost (95% CI)					
Medical illness	3% (2, 6)	3% (2, 5)	4% (2, 7)	2% (1, 3)	2% (1, 3)	9% (6, 14)
Match injuries	80% (69, 93)	63% (54, 74)	73% (63, 84)	70% (61, 81)	69% (61, 79)	60% (47, 77)
Other (non-cricket specific activity) injuries	2% (1, 4)	11% (7, 16)	6% (4, 10)	4% (2, 7)	3% (2, 5)	6% (3, 13)
Training injuries	15% (11, 21)	22% (16, 30)	18% (13, 25)	21% (16, 27)	26% (21, 32)	25% (18, 35)
	Percentage of non-time loss injuries (95% CI)					
Medical illness	23% (18, 29)	11% (8, 15)	9% (7, 12)	9% (7, 12)	6% (4, 9)	15% (10, 22)
Match injuries	55% (48, 63)	63% (56, 71)	70% (63, 77)	67% (61, 74)	75% (67, 83)	52% (43, 63)
Other (non-cricket specific activity) injuries	8% (6, 11)	10% (7, 13)	7% (5, 10)	6% (4, 8)	6% (4, 9)	7% (4, 12)
Training injuries	14% (11, 19)	16% (13, 20)	14% (11, 18)	17% (14, 21)	13% (10, 17)	26% (20, 34)
	Percentage of total injuries (95% CI)					
Medical illness	15% (12, 18)	9% (7, 11)	8% (6, 10)	8% (6, 10)	7% (5, 9)	15% (11, 20)
Match injuries	65% (59, 72)	65% (59, 71)	71% (65, 77)	67% (62, 73)	70% (64, 76)	52% (45, 61)
Other (non-cricket specific activity) injuries	6% (4, 8)	10% (8, 13)	7% (5, 9)	6% (5, 8)	5% (4, 7)	6% (4, 9)
Training injuries	14% (11, 17)	16% (13, 19)	14% (12, 17)	18% (15, 21)	17% (14, 20)	27% (22, 33)

Supplementary Table 8: Activity at time of injury for training problem type injuries ordered by total injury count descending for the 2020 season

Activity	TL injury count		NTL injury count		Total injury count	
	2020	2015-2019 Mean	2020	2015-2019 Mean	2020	2015-2019 Mean
Bowling - Delivery stride or follow through	7	11	7	8	14	19
Batting - Hit by ball / other (no activity recorded)	2	4	10	6	12	10
Bowling	4	6	9	10	11	16
Fielding	3	3	4	6	8	9
Training - Running	1	2	2	2	5	4
Batting - Playing shot	2	1	4	2	5	3
Training	1	3	2	4	4	7
Batting	1	1	3	4	4	5
Fielding - Throwing	0	1	2	3	3	3
Other	2	2	3	3	3	5
Bowling - Run up	1	2	1	5	3	6
Fielding - Catching	1	1	1	1	2	2
Fielding - Diving	2	3	1	4	2	7
Training - Running Drills	2	1	0	1	2	2
Bowling - Fielding off own bowling	1	1	0	2	1	3
Training - Weight training	1	2	0	0	1	1
Wicket keeping - Catching	0	0	1	1	1	4
				0	1	0
Total	33	43 (48)	50	64 (71)	83	107 (119)

Note: For the 2015-2019 mean, the bracketed figure indicates the mean total number of injuries for that injury type

Supplementary Table 9: Orchard code and description for training problem type injuries recorded ordered by total injury count descending for the 2020 season

Orchard code	Description	TL injury count		NTL injury count		Total injury count	
		2020	2015-2019 Mean	2020	2015-2019 Mean	2020	2015-2019 Mean
SXXX	Shoulder Injuries	1	0	4	1	5	1
HNCX	Concussion	3	0	0	0	3	0
AHHX	Heel bruising/ haematoma incl fat pad contusion	1	0	1	0	2	0
AJLX	Ankle lateral ligament sprain	2	0	0	1	2	1
GTSS	Sartorius tendon strain	2	0	0	0	2	0
GXXX	Hip and Groin Injuries	0	0	2	0	2	1
HNCN	Head Strike No Injury Detected	0	0	2	0	2	0
HZXX	Head Pain/ Injury Not Otherwise Specified (Including headache)	0	0	2	0	2	0
KMPX	Popliteus muscle strain	1	0	1	1	2	1
LMXX	Lumbar Spine muscle and Tendon Strain/ Spasm/ Trigger Points	2	1	0	1	2	2
LXXX	Lumbar Spine Injuries	1	1	1	1	2	1
OXXX	Trunk and Abdominal Injuries	0	0	2	0	2	0
QMSX	Soleus Injury/ strain	1	1	1	1	2	1
QMYX	Calf muscle trigger points/ spasm	1	0	1	0	2	0
ADXX	Ankle Dislocation	1	0	0	0	1	0
AGPX	Posterior impingement ankle	0	0	1	0	1	1
AJLA	Anterior talofibular ligament sprain	0	1	1	3	1	4
AJLR	Lateral ligaments rupture (grade 3 injury)	1	0	0	0	1	0
ATAT	Achilles tendinopathy	0	0	1	0	1	0
ATPS	Peroneal tendon strain	0	0	1	0	1	0

ATTT	Tibialis posterior tendinopathy	0	0	1	0	1	0	0	1	0
DXXX	Thoracic Spine Injuries (Incl Thoracolumbar Junction)	1	0	0	0	1	0	0	1	0
EGPX	Elbow posterior impingement/ synovitis	0	0	1	0	1	0	0	1	1
EGXX	Elbow Impingement/ Synovitis	0	0	1	0	1	0	0	1	0
EZXX	Elbow Pain/ Injury not otherwise specified	0	0	1	0	1	1	0	1	1
FHHU	Nail bed haematoma great toe	1	0	0	0	0	0	0	1	0
FXXX	Ankle Pain/ Injury not otherwise specified	0	0	1	0	1	0	0	1	0
GGXX	Hip Joint Inflammation/ Synovitis/ Other Biomechanical Lesion	0	0	1	0	1	0	0	1	0
GOSX	Scrotal +/- testicular injury	0	0	1	0	1	0	0	1	0
GZXX	Hip/ Groin Pain Not otherwise specified	0	0	1	0	1	0	0	1	0
GZZX	Hip/Groin Pain undiagnosed	1	0	0	0	0	0	0	1	0
HLMN	Mucosal laceration not requiring suturing	0	0	1	0	1	0	0	1	0
HXXX	Head Injuries	0	0	1	0	1	1	0	1	1
KHMX	Knee MCL contusion	0	0	1	0	1	0	0	1	0
KTHM	Medial hamstring tendinopathy, incl pes anserine bursitis	1	0	0	0	0	0	0	1	0
KTPT	Patellar tendinopathy (excl. Sinding Larsen Johansson syndrome see JTKP)	0	0	1	0	1	1	0	1	1
LCXX	Lumbar Disc Injury	1	0	0	0	0	1	0	1	1
LGXX	Lumbar Spine Facet Joint Pain/ Stiffness	1	1	0	1	0	1	1	1	3
LJXX	Lumbar Spine Joint Injury	0	0	1	0	1	0	0	1	0
LNZX	Other lumbosacral nerve injury	0	0	1	0	1	0	0	1	0
LSRX	Lumbar spine stress reaction	1	1	0	0	0	1	0	1	1
MISQ	Skin infection lower leg	0	0	1	0	1	0	0	1	0
NIPX	Cervical Facet joint pain/ chronic inflammation/ stiffness	0	0	1	0	1	0	0	1	0
OMMO	Obliques muscle strain	0	3	1	1	1	1	0	1	4
QHMP	Calf/ gastroc haematoma	0	0	1	0	1	0	0	1	0
QMXX	Lower leg muscle Injury	1	0	0	0	0	0	0	1	0

QXXX	Lower Leg Injuries	1	0	0	0	1	0
QYXX	Other Leg Overuse Injury	0	0	1	0	1	0
RHXX	Forearm Soft Tissue Bruising/ Haematoma	0	0	1	1	1	2
SAAX	AC joint arthritis	0	0	1	0	1	0
SGSX	Subacromial impingement	0	0	1	0	1	1
SHXX	Shoulder Soft Tissue Bruising/ Haematoma	0	0	1	0	1	0
SMLX	Lattissimus Dorsi muscle injury	1	0	0	0	1	0
THMX	Thigh muscle haematoma	1	0	0	0	1	0
TKXX	Thigh Laceration/ Abrasion	1	0	0	0	1	0
TMAL	Adductor longus strain	1	0	0	0	1	0
TMQS	Rectus femoris strain	0	0	1	1	1	1
TXXX	Thigh Injuries	1	0	0	0	1	0
WHFX	Finger bruising/ haematoma	0	0	1	2	1	3
WHHX	Hand bruising/ haematoma	0	0	1	0	1	1
WHXX	Wrist and Hand Soft Tissue Bruising/ Haematoma	1	0	0	0	1	1
WJFX	Finger joint sprain (PIP and DIP joints)	0	0	1	1	1	1
WKHV	Palmar hand laceration/ abrasion	1	0	0	0	1	0
WKXX	Wrist and Hand Laceration/ Abrasion	0	0	1	0	1	0
WTFG	Trigger Finger	0	0	1	0	1	0
Total		33	15 (48)	50	24 (71)	83	38 (119)

Note: For the 2015-2019 mean, the bracketed figure indicates the mean total number of injuries for that injury type

Supplementary Table 10: Orchard code and description for thigh time loss injuries ordered by in-season days lost descending for the 2020 season

Orchard code	Description	TL Injury Count		In-season Days Lost	
		2020	2015-2019 Mean	2020	2015-2019 Mean
TMQS	Rectus femoris strain	5	5	137	79
TMHB	Biceps femoris strain grade 1 - 2	5	10	93	188
TMAL	Adductor longus strain	1	2	42	32
TMHR	Grade 3 hamstring strain	1	1	31	54
TXXX	Thigh Injuries	2	1	26	17
TMAX	Adductor strain	2	1	20	10
TKXX	Thigh Laceration/ Abrasion	1	0	16	0
TMHS	Semimembranosis/ tendinosis strain (grade 1 - 2)	1	5	16	82
TMHX	Hamstring strain	2	4	15	101
THMX	Thigh muscle haematoma	1	0	14	0
TMXX	Thigh Muscle strain/ Spasm/ Trigger Points	1	1	3	4
Total		22	28 (33)	413	566 (641)

Note: For the 2015-2019 mean, the bracketed figure indicates the mean total number of injuries and in-season days lost for that injury type

Supplementary Table 11: Activity at time of injury for thigh injuries ordered by in-season days lost for the 2020 season

Activity at time of injury	TL Injury Count		In-season Days Lost	
	2020	2015-2019 Mean	2020	2015-2019 Mean
Bowling - Delivery stride or follow through	6	7	185	203
Fielding - Diving	2	2	53	55
Batting - Running between wickets	4	5	53	103
Fielding - Running	5	5	46	67
Bowling - Run up	1	3	31	56
Training - Running	1	1	14	4
Other	1	1	14	5
Bowling - Fielding off own bowling	1	0	14	0
Bowling	1	3	3	41
Total	22	26 (33)	413	534 (641)

Note: For the 2015-2019 mean, the bracketed figure indicates the mean total number of injuries and in-season days lost for that injury type

Supplementary Table 12: Orchard code and description for hand time loss injuries ordered by in-season days lost descending for the 2020 season

Orchard code	Description	TL Injury Count		In-season Days Lost	
		2020	2015-2019 Mean	2020	2015-2019 Mean
WKHV	Palmar hand laceration/ abrasion	1	1	20	6
WFPX	Fractured thumb	1	1	18	22
WJWX	Wrist sprain/ jarring (radiocarpal joint)	1	0	13	0
WHXX	Wrist and Hand Soft Tissue Bruising/ Haematoma	1	1	6	7
WTED	Little finger extensor tendon rupture	1	0	6	0
WJPM	Thumb MCP joint sprain (incl radial and ulnar collat lig)	1	0	4	3
WKXX	Wrist and Hand Laceration/ Abrasion	1	0	1	1
Total		7	3 (36)	68	38 (780)

Note: For the 2015-2019 mean, the bracketed figure indicates the mean total number of injuries and in-season days lost for that injury type

Supplementary Table 13: Orchard code and description for lumbar spine time loss injuries ordered by in-season days lost descending for the 2020 season

Orchard code	Description	TL Injury Count		In-season Days Lost	
		2020	2015-2019 Mean	2020	2015-2019 Mean
LGXX	Lumbar Spine Facet Joint Pain/ Stiffness	2	4	50	95
LCXX	Lumbar Disc Injury	2	2	25	89
LXXX	Lumbar Spine Injuries	2	3	25	31
LMXX	Lumbar Spine muscle and Tendon Strain/ Spasm/ Trigger Points	3	4	13	94
LSRX	Lumbar spine stress reaction	1	2	6	150
Total		10	16 (33)	119	458 (1376)

Note: For the 2015-2019 mean, the bracketed figure indicates the mean total number of injuries and in-season days lost for that injury type