

Attachment 1: Correlation between KOS-ADL factors and KOOS subclasses

KOS-ADL factors	KOOS subclasses: Symptoms						
	1	2	3	4	5	6	7
Pain	-0.43**	-0.24**	-0.47**	0.34**	0.34**	-0.55**	-0.53**
Stiffness	-0.42**	-0.30**	-0.46**	0.35**	0.42**	-0.64**	-0.56**
Swelling	-0.63**	-0.25**	-0.35**	0.42**	0.40**	-0.47**	-0.41**
Giving way, buckling, or shifting of the knee	-0.35**	-0.27**	-0.58**	0.33**	0.31**	-0.43**	-0.37**
Weakness	-0.47**	-0.32**	-0.48**	0.36**	0.26**	-0.44**	-0.32**
Limping	-0.48**	-0.28**	-0.48**	0.53**	0.45**	-0.45**	-0.41**
Walk	-0.37**	-0.33**	-0.52**	0.40**	0.33**	-0.40**	-0.32**
Go up stairs	-0.28**	-0.33**	-0.37**	0.37**	0.31**	-0.40**	-0.35**
Go down stairs	-0.22*	-0.25**	-0.33**	0.28**	0.31**	-0.33**	-0.28**
Stand	-0.29**	-0.24**	-0.39**	0.41**	0.28**	-0.34**	-0.30**
Kneel on the front of your knee	-0.27**	-0.31**	-0.34**	0.32**	0.44**	-0.37**	-0.29**
Squat	-0.36**	-0.28**	-0.37**	0.40**	0.48**	-0.38**	-0.31**
Sit with your knee bent	-0.28**	-0.27**	-0.31**	0.39**	0.52**	-0.36**	-0.29**
Rise from a chair	-0.34**	-0.30**	-0.43**	0.34**	0.29**	-0.55**	-0.38**

*Correlation is significant at the 0.05 level (2-tailed), **Correlation is significant at the 0.01 level (2-tailed), P≤0.001

KOS-ADL factors	KOOS subclasses: Pain								
	1	2	3	4	5	6	7	8	9
Pain	-0.51**	-0.54**	-0.44**	-0.50**	-0.56**	-0.53**	-0.57**	-0.52**	-0.44**
Stiffness	-0.47**	-0.46**	-0.43**	-0.38**	-0.57**	-0.44**	-0.50**	-0.42**	-0.44**
Swelling	-0.34**	-0.34**	-0.34**	-0.35**	-0.33**	-0.31**	-0.36**	-0.46**	-0.34**
Giving way, buckling, or shifting of the knee	-0.27**	-0.40**	-0.35**	-0.38*	-0.42**	-0.42**	-0.46**	-0.44**	-0.41**
Weakness	-0.32**	-0.36**	-0.44**	-0.33**	-0.38**	-0.30**	-0.47**	-0.30**	-0.44**
Limping	-0.47**	-0.52**	-0.57**	-0.53**	-0.49**	-0.44**	-0.45**	-0.48**	-0.57**
Walk	-0.51**	-0.52**	-0.41**	-0.35**	-0.53**	-0.44**	-0.43**	-0.42**	-0.48**
Go up stairs	-0.39**	-0.47**	-0.41**	-0.41**	-0.39**	-0.59**	-0.24**	-0.42**	-0.36**
Go down stairs	-0.40**	-0.38**	-0.41**	-0.45**	-0.37**	-0.48**	-0.28**	-0.37**	-0.34**
Stand	-0.40**	-0.46**	-0.42**	-0.40**	-0.39**	-0.40**	-0.36**	-0.39**	-0.54**
Kneel on the front of your knee	-0.42**	-0.32**	-0.38**	-0.48**	-0.40**	-0.39**	-0.33**	-0.46**	-0.31**
Squat	-0.45**	-0.37**	-0.42**	-0.51**	-0.44**	-0.40**	-0.37**	-0.55**	-0.41**
Sit with your knee bent	-0.43**	-0.34**	-0.38**	-0.50**	-0.42**	-0.36**	-0.39**	-0.50**	-0.34**
Rise from a chair	-0.46**	-0.41**	-0.43**	-0.42**	-0.45**	-0.46**	-0.50**	-0.44**	-0.45**

*Correlation is significant at the 0.05 level (2-tailed), **Correlation is significant at the 0.01 level (2-tailed), P≤0.001

KOS-ADL factors	KOOS subclasses								
	Sport and entertainment					Quality of life			
	1	2	3	4	5	1	2	3	4
Pain	-0.57**	-0.47**	-0.46**	-0.59**	-0.58**	-0.45**	-0.07	-0.53**	-0.58**
Stiffness	-0.46**	-0.47**	-0.42**	-0.50**	-0.51**	-0.44**	-0.15	-0.52**	-0.56**
Swelling	-0.36**	-0.30**	-0.25**	-0.35**	-0.37**	-0.37**	-0.11	-0.39**	-0.45**
Giving way, buckling, or shifting of the knee	-0.34**	-0.26**	-0.25**	-0.32**	-0.31**	-0.31**	-0.03	-0.49**	-0.55**
Weakness	-0.32**	-0.33**	-0.32**	-0.37**	-0.33**	-0.28**	-0.11	-0.39**	-0.47**
Limping	-0.48**	-0.45**	-0.46**	-0.45**	-0.41**	-0.40**	-0.26**	-0.57**	-0.63**
Walk	-0.52**	-0.49**	-0.45**	-0.46**	-0.52**	-0.47**	-0.24**	-0.46**	-0.52**
Go up stairs	-0.51**	-0.37**	-0.44**	-0.45**	-0.42**	-0.34**	-0.12	-0.38**	-0.44**
Go down stairs	-0.49**	-0.37**	-0.41**	-0.42**	-0.43**	-0.29**	-0.13	-0.40**	-0.43**
Stand	-0.45**	-0.39**	-0.38**	-0.40**	-0.38**	-0.38**	-0.21*	-0.42**	-0.52**
Kneel on the front of your knee	-0.56**	-0.49**	-0.50**	-0.48**	-0.62**	-0.46**	-0.42**	-0.51**	-0.54**
Squat	-0.55**	-0.49**	-0.48**	-0.44**	-0.58**	-0.45**	-0.40**	-0.53**	-0.60**
Sit with your knee bent	-0.58**	-0.44**	-0.46**	-0.42**	-0.57**	-0.44**	-0.41**	-0.47**	-0.57**
Rise from a chair	-0.44**	-0.45**	-0.47**	-0.51**	-0.49**	-0.39**	-0.19*	-0.54**	-0.56**

*Correlation is significant at the 0.05 level (2-tailed), **Correlation is significant at the 0.01 level (2-tailed), P≤0.001

KOS-ADL factors	KOS subclasses: Activities of daily living																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Pain	-0.56**	-0.53**	-0.50**	-0.48**	-0.42**	-0.56**	-0.50**	-0.49**	-0.41**	-0.49**	-0.40**	-0.46**	-0.49**	-0.42**	-0.43**	-0.42**	-0.47**
Stiffness	-0.47**	-0.51**	-0.48**	-0.45**	-0.35**	-0.51**	-0.44**	-0.43**	-0.36**	-0.47**	-0.37**	-0.41**	-0.43**	-0.35**	-0.38**	-0.46**	-0.41**
Swelling	-0.29**	-0.40**	-0.42**	-0.34**	-0.21*	-0.30**	-0.42**	-0.31**	-0.36**	-0.31**	-0.35**	-0.34**	-0.48**	-0.36**	-0.34**	-0.31**	-0.44**
Giving way, buckling, or shifting of the knee	-0.48**	-0.48**	-0.46**	-0.41**	-0.36**	-0.41**	-0.37**	-0.28**	-0.24**	-0.32**	-0.25**	-0.38**	-0.31**	-0.33**	-0.29**	-0.22*	-0.43**
Weakness	-0.31**	-0.29**	-0.32**	-0.41**	-0.27**	-0.47**	-0.34**	-0.27**	-0.40**	-0.35**	-0.41**	-0.34**	-0.35**	-0.24**	-0.20*	-0.21*	-0.33**
Limping	-0.44**	-0.44**	-0.46**	-0.53**	-0.46**	-0.54**	-0.51**	-0.33**	-0.45**	-0.45**	-0.48**	-0.48**	-0.54**	-0.40**	-0.26**	-0.36**	-0.54**
Walk	-0.49**	-0.44**	-0.39**	-0.47**	-0.38**	-0.56**	-0.40**	-0.41**	-0.36**	-0.40**	-0.33**	-0.41**	-0.39**	-0.33**	-0.21*	-0.38**	-0.46**
Go up stairs	-0.53**	-0.60**	-0.49**	-0.31**	-0.37**	-0.34**	-0.36**	-0.28**	-0.26**	-0.39**	-0.26**	-0.29**	-0.41**	-0.33**	-0.38**	-0.39**	-0.40**
Go down stairs	-0.66**	-0.43**	-0.47**	-0.31**	-0.40**	-0.36**	-0.36**	-0.27**	-0.35**	-0.41**	-0.40**	-0.33**	-0.40**	-0.35**	-0.45**	-0.41**	-0.38**
Stand	-0.39**	-0.39**	-0.40**	-0.54**	-0.43**	-0.49**	-0.44**	-0.38**	-0.40**	-0.39**	-0.41**	-0.47**	-0.46**	-0.32**	-0.32**	-0.29**	-0.47**
Kneel on the front of your knee	-0.38**	-0.34**	-0.50**	-0.36**	-0.47**	-0.38**	-0.52**	-0.33**	-0.50**	-0.48**	-0.44**	-0.40**	-0.42**	-0.43**	-0.36**	-0.35**	-0.42**
Squat	-0.38**	-0.40**	-0.49**	-0.46**	-0.48**	-0.46**	-0.59**	-0.38**	-0.58**	-0.49**	-0.51**	-0.48**	-0.44**	-0.41**	-0.40**	-0.30**	-0.45**
Sit with your knee bent	-0.35**	-0.35**	-0.46**	-0.37**	-0.45**	-0.41**	-0.54**	-0.31**	-0.53**	-0.49**	-0.48**	-0.49**	-0.45**	-0.42**	-0.41**	-0.32**	-0.48**
Rise from a chair	-0.42**	-0.45**	-0.48**	-0.47**	-0.48**	-0.50**	-0.52**	-0.48**	-0.42**	-0.57**	-0.47**	-0.43**	-0.47**	-0.40**	-0.37**	-0.32**	-0.43**

*Correlation is significant at the 0.05 level (2-tailed), **Correlation is significant at the 0.01 level (2-tailed), P≤0.001