

Appendix 3: Complete list of post-concussion signs/symptoms recorded by NHL team physicians over seven NHL regular seasons (1997–2004)							
Signs/symptoms	1997–1998	1998–1999	1999–2000	2000–2001	2001–2002	2002–2003	2003–2004
Headache	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Nausea	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Neck pain	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fatigue/low energy	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Irritability	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Nervous/anxious	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Blurred vision	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Photophobia/sensitivity to light	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dizziness	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vomiting	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Amnesia	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Loss of consciousness	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Depression/sadness	Yes	Yes	Yes			Yes	Yes
Back pain	Yes	Yes	Yes				
Syncopal episodes	Yes	Yes	Yes				
Personality change	Yes	Yes	Yes				
Decreased appetite	Yes	Yes	Yes				
Decreased libido	Yes	Yes	Yes				
Sleep disturbance	Yes	Yes	Yes				
Convergence difficulty	Yes	Yes	Yes				
Not oriented to person	Yes	Yes	Yes				
Not oriented to place	Yes	Yes	Yes				
Not oriented to time	Yes	Yes	Yes				
Vertigo	Yes	Yes	Yes				
Altered information processing	Yes	Yes	Yes				
Tinnitus	Yes	Yes	Yes	Yes	Yes		
Diminished smell	Yes	Yes	Yes	Yes	Yes		
Diminished taste	Yes	Yes	Yes	Yes	Yes		
Seizure	Yes	Yes	Yes	Yes	Yes		
Nystagmus	Yes	Yes	Yes	Yes	Yes		
Hearing loss	Yes	Yes	Yes	Yes	Yes		
Speech difficulties	Yes	Yes	Yes	Yes	Yes		
Diplopia	Yes	Yes	Yes	Yes	Yes		
Altered pupil response	Yes	Yes	Yes	Yes	Yes		
Altered pupil size	Yes	Yes	Yes	Yes	Yes		
Loss of immediate recall	Yes	Yes	Yes	Yes	Yes		
Altered attention span	Yes	Yes	Yes	Yes	Yes		
Not oriented				Yes	Yes		
Concentration dysfunction				Yes	Yes	Yes	Yes
Memory dysfunction				Yes	Yes	Yes	Yes
Drowsiness				Yes	Yes	Yes	Yes

Appendix to: Benson BW, Meeuwisse WH, Rizos J. A prospective study of concussions among National Hockey League players during regular season games: the NHL-NHLPA Concussion Program. *CMAJ* 2011. DOI:10.1503/cmaj.092190.

Confusion	Yes	Yes	Yes	Yes
"Don't feel right"	Yes	Yes	Yes	Yes
Sensitivity to noise			Yes	Yes
Feeling like "in a fog"			Yes	Yes
More emotional			Yes	Yes
Balance problems			Yes	Yes
Numbness/tingling			Yes	Yes
Feeling "pressure in head"			Yes	Yes
Feeling slowed down			Yes	Yes
Note: Since there was variability across seasons on which signs/symptoms were included on the Physician Evaluation Forms as part of the evolution of the NHL-NHLPA Concussion Program, only those symptoms that remained consistent over the seven seasons of study were included in the analyses.				

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