Paper 2: Performance enhancing drugs

Performance enhancing drugs Fame Level playing field The more Advantages to the If every athlete successful you are were to take them performer from the more famous it would make taking PED's you can become things equal when owing to more competing publicity Wealth Increase chance of success If you are successful you An archer taking beta blockers to are more likely to win more reduce anxiety may be more accurate prize money and attract and have a greater chance of winning sponsorship deals Fines Cheating/immoral Disadvantages to If caught you If caught may have to pay the performer from everyone will an expensive fine taking PED's know you cheated Bans Damage to reputation Associated health risks If caught you If caught you will not Many performance will not be able be able to compete, enhancing drugs have to compete, when the ban is over health risks. Taking when the ban is you may be past your diuretics can cause over you may be peak fitness kidney damage past your peak fitness Disadvantages to the Sport when performers take PED's Poor credibility A Bad reputation If a performer takes drugs If a performer takes drugs the sport may not get the the sport may be seen as untrustworthy or unreliable respect it deserves

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Drug	Effect on Performance	Health Risks	Which Sports
Anabolic Agents	allows performers to train longer and harder It increases protein synthesis helping develop lean muscle mass and speeds up recovery time	 Liver damage/CHD Testicular atrophy Infertility Skin problems Mood swings Aggression Baldness 	Activities that require power: • Sprinters • Rugby players • Weightlifting • Boxers • Baseball
Beta Blockers	Beta blockers improve fine motor control by slowing heart rate and reducing anxiety which allow the performer to remain calm and controlled	 Nausea Sleep disturbance Tiredness/weakness Lower blood pressure Slow heart rate 	Activities that require precision: • Archery/shooting • Snooker • Gymnastics
Diuretics	Diuretics achieve quick weight loss (fluids). They also mask other drugs making them harder to detect	DehydrationNauseaheadachesHeart/kidney failure	Drug cheats and sports with weight categories: • Boxing • Jockey
Narcotic Analgesics	Narcotic analgesics increases the performers pain threshold so can mask injuries, also give of feeling of invincibility	 Nausea/vomiting Anxiety/depression Kidney/liver damage Addiction Risk further injury 	Any sport that a performer is injured: Boxers Sprinters Football
Peptide Hormones	EPO Erythropoietin (EPO) Can increase red blood cell production increasing O2 delivery	 Thickening of blood Blood clots Strokes Heart attack 	Aerobic events e.g. long distance: Running Cycling
	Human Growth Hormone Helps muscle mass and burns fat	ArthritisHeart failureAbnormal feet/hands	Strength events: • Weightlifting • Sprinting • Rugby
Stimulants	Stimulants increase alertness, reduce tiredness and increase heart rate (therefore oxygen delivery)	InsomniaAnxietyAggressionIrregular heart rate	Alert/aggressive sports: Rugby Boxing Ice hockey
Blood Doping	Blood doping involves the removal of blood a few weeks prior to competition. The blood is frozen and re-injected just before competition. (increase red blood cells)	 Infection Thickening of blood (viscosity) Heart attack Embolism (blockage of vessel) 	Aerobic events e.g. long distance: Running/cycling Cycling Swimming Games players