

### Supplementary tables

Table SI. Clinical characteristics of subjects with NFH and controls.

Characteristics	Control	NFH	t or $\chi^2$ value	P-value
Mean age $\pm$ SD, years	47.31 $\pm$ 5.76	48.65 $\pm$ 6.32	2.313	0.846
Male, n	21	38	0.224	0.826
Female, n	9	12		
Alcohol type of NFH, n		28	0.464	0.618
Steroid type of NFH, n		22		

NFH, necrosis of the femoral head. Alcohol type of NFH, alcohol-induced NFH. Steroid type of NFH, steroid-induced NFH.

Table SII. Information of primary and secondary antibodies used for western blotting.

Antibodies	Supplier	Catalogue number	Dilution
Primary antibodies			
OPG	AffinityBiosciences	DF6824	1:1,000
Bcl-2	ProteinTech Group, Inc.	12789-1-AP	1:3,000
Bax	ProteinTech Group, Inc.	50599-2-Ig	1:2,000
Caspase-3	Cell Signaling Technology, Inc.	9662S	1:3,000
Cleaved caspase-3	Cell Signaling Technology, Inc.	9664S	1:1,000
p-Akt(SER473)	Cell Signaling Technology, Inc.	4060S	1:1,000
Akt	Cell Signaling Technology, Inc.	2920S	1:3,000
$\beta$ -actin	ProteinTech Group, Inc.	66009-1-Ig	1:3,000
Secondary antibodies			
HRP-conjugated Affinipure Goat Anti-Rabbit IgG (H+L)	ProteinTech Group, Inc.	SA00001-2	1:5,000
HRP-conjugated Affinipure Goat Anti-Mouse IgG (H+L)	ProteinTech Group, Inc.	SA00001-1	1:5,000

OPG, osteoprotegerin; p-, phosphorylated.