Height at Diagnosis of Weight at Diagnosis of Body Mass Index at Percentile Groups the 1st Slipped Capital the 1st Slipped Capital Diagnosis of the 1st Slipped (2000 NCHS percentiles²⁹) Birth Weight²⁷ Femoral Epiphysis Capital Femoral Epiphysis Femoral Epiphysis

TABLE E-1 Distribution of Children in Different Body Habitus Percentile Groups

` '	U	117	117	1 117
>90th	5	2	8	9
75th to 90th	5	2	1	3
25th to 74th	7	10	12	6
10th to 24th	1	3	0	2
<10th	1	3	1	0
Total	10	20	22	20

1 otai 20

The sum totals do not equal 25 as a result of missing data in the medical records of the 25 Amish children with slipped capital femoral epiphysis.

All Unilateral Bilateral Parameter (n = 17)(n = 8)

 13.4 ± 1.6

 6.6 ± 9.0

 3.7 ± 0.5

17/8

2/26

31/2

Age at Diagnosis (yrs)

Presentation (Ac/Ch)

Presentation (St/Unst) Birth Weight (kg)

Symptom Duration (mos)

Gender (M/F)

TABLE E-2 Comparison Between Unilateral and Bilateral Slipped Capital Femoral Epiphysis in 25 Amish Children

 13.6 ± 1.4

 7.6 ± 11.6

11/6

1/15

16/1

 3.7 ± 0.5

p value

0.67

1.00

0.74

0.83

1.00

0.60

0.026

0.11

0.032

0.014 0.20

0.18

0.047 0.66

 12.6 ± 1.8

 6.1 ± 5.1

 3.8 ± 0.6

 ± 12.0

6/2

1/11

15/1

8 6 6			
Weight at Dx (kg)	55.6 ± 12.4	60.1 ± 12.4	47.8 ± 7.6
Height at Dx (cm)	155.5 ± 10.2	153.4 ± 9.0	160.4 ± 12.0
Body Mass Index at Dx (kg/m ²)	23.4 ± 5.4	25.1 ± 5.6	19.6 ± 2.5
Oxford Bone Age Score	32.8 ± 3.6	33.6 ± 3.5	30.8 ± 3.1
Oxford Bone Age (yrs)	14.3 ± 1.1	14.4 ± 1.1	13.8 ± 1.0
Slip Angle (deg)	38 ± 20	37 ± 14	49 ± 25
Mild/Moderate/Severe	7/11/5	4/2/4	3/9/1
Family History of slipped capital femoral epiphysis (Y/N)	9/14	5/10	4/4
M = male, $F = female$, $Ac = acute$, $Ch = ch$	nronic, St = stable, Unst	= unstable, $Y = yes, N$	= no.

TABLE E-3 Previous Studies of Slipped Capital Femoral Epiphysis and Genetics

Study Year Type of Series Number of cases % familial incidence

series

<u> </u>				incidence		
Rennie ⁴⁵	1967	Case reports	12 children, 8 different families	7%	Recessive with low penetrance	Not available at that time
Rennie ³³	1982	Retrospective review	214	14.5% 18.8% for osteoarthritis	Autosomal dominant with variable penetrance	Not done
Hägglund et al. ³²	1986	Consecutive case series	50 (40 families)	8.8% in 1st degree relatives	-	Not done
Hägglund and Hansson ⁴²	1986	Case report, 3 generations	3 cases, 1 family	-	Autosomal dominant with variable penetrance	Not done
Gajraj ⁴⁶	1986	Case report, identical twins	1 family, identical twins	-	-	A11, B12
Montsko and de Jonge ⁴⁴	1995	Case report	1 family, father and 5 siblings (3 M, 2 F)	-	-	Not done
Moreira et al. ⁴³	1998	Case report	1 family, 4 cases	-	Autosomal dominant	Not done
Diwan et al. ⁴¹	1998	Case report	1 family, 2 generations	-	-	Not done
Bednarz and Stanitski ⁴⁰	1998	Case report	Identical twins	-		Twin 1: A2,26, B51,60, Bw4/6 Twin 2: A2,24, B51/60, Bw4/6
Allen and Calvert ³⁹	1990	Case report	Identical twins	-	-	A2, B12
Günal and Ates ⁴⁷	1997	Case series	6 patients	-	-	DR4 common to all; no other common phenotypes
Wong-Chung et al. ⁴⁸	2000	Random case	7 cases (6 M, 1 F)	2 were brothers	-	No common phenotypes

Postulated inheritance

HLA Type