Table 1. Descriptive statistics for Octo-twin

			Year of	Assessment		
Variable		Baseline	Year 2	Year 4	Year 6	Year 8
		(n = 702)	(n = 600)	(n = 433)	(n = 315)	(n = 222)
		M (SD)	M (SD)	M (SD)	M (SD)	M (SD)
Demographic						
Age, years		83.58(3.2)	85.47(3.1)	87.24(2.8)	89.07(2.8)	90.81(2.5)
Education, ye	ears	7.14(2.29)				
Height, cm		161.68				
Smoking hist	tory (%)					
Cardiovascul	ar disease(%)					
Diabetes (%)		10.3				
Physical						
Pulmonary:	PEF	319.69(108.4)	334.20(107.8)	327.95(98.05)	296.13(98.7)	279.64(98.9)
Muscle:	Grip Strength	8.96(9.0)	8.01(2.96)	7.22(3.1)	6.8(2.9)	6.29(2.7)
Gait:	Walking Speed					
Cognitive						
	MMSE	24.51(7.1)	23.56(8.0)	23.20(8.6)	22.63(8.9)	22.00(8.2)
	Digit Span	5.36(1.2)	5.01(1.4)	4.89(1.5)	4.75(1.3)	4.77(1.4)
	Forward					
	Digit Span	3.16(1.6)	3.03(1.6)	2.76(1.7)	2.81(1.6)	2.84(1.4)
	Backward					
	Prose	8.86(4.5)	8.61(4.7)	8.67(4.7)	8.94(4.9)	8.76(4.6)
	Information	26.84(12.0)	27.48(12.0)	27.08(12.6)	26.63(13.0)	25.82(11.6)
	Block Design	10.67(7.4)	10.39(7.5)	10.28(7.5)	10.44(7.3)	9.81(7.4)
	Synonyms test	16.62(6.0)	16.12(6.3)	16.32(6.2)	16.57(6.3)	16.19(6.1)
	Figure Reasoning	15.39(4.2)	15.43(4.3)	15.93(4.0)	15.45(4.5)	15.32(3.9)
	Digit Symbol	23.19(11.7)	23.21(11.5)	23.24(12.0)	22.84(12.6)	21.12(11.59)
Objects Recalled		5.86(2.9)	5.34(3.3)	5.27(3.4)	5.46(3.5)	5.68(3.5)
Study Characteristi	cs					
Retention from previous wave (%)		85.5	72.2	72.2	72.7	70.5
Representative sample		yes				
Oldest Birth Col	nort (year)					

Table 2. Descriptive statistics for Octo-Twin (Males)

	Year of Assessment					
Variable		Baseline	Year 2	Year 4	Year 6	Year 8
		(n = 234)	(n = 199)	(n = 143)	(n = 90)	(n = 57)
		M (SD)				
Demographic						
Age, years		83.14(2.9)	84.92(2.7)	86.84(2.6)	88.55(2.5)	90.53(2.5)
Education, ye	ears	7.47(2.9)				
Height, cm		171.03(6.5)				
Smoking hist	cory (%)					
Cardiovascul	ar disease(%)					
Diabetes (%)		11.8				
Physical						
Pulmonary:	PEF	387.80(118.3)	396.08(114.0)	391.45(101.6)	368.17(110.7)	338.24(124.4)
Muscle:	Grip Strength	11.02(3.0)	9.85(2.8)	9.08(3.3)	8.74(3.0)	8.20(3.2)
Gait:	Walking Speed					
Cognitive						
	MMSE	25.39(5.7)	24.53(6.7)	24.05(7.3)	22.82(8.1)	21.68(7.6)
	Digit Span	5.56(1.2)	5.18(1.1)	4.98(1.2)	4.82(1.3)	4.83(1.5)
	Forward					
	Digit Span	3.16(1.6)	3.06(1.7)	2.77(1.6)	2.68(1.7)	2.84(1.5)
	Backward					
	Prose	8.94(4.4)	8.17(4.9)	8.18(4.9)	9.28(5.3)	8.82(4.7)
	Information	31.23(9.6)	30.10(11.1)	30.03(11.2)	28.45(12.1)	27.77(11.9)
	Block Design	10.94(7.6)	10.53(8.1)	10.30(8.3)	10.31(7.9)	10.78(7.9)
	Synonyms test	16.33(6.6)	15.98(6.9)	15.65(6.9)	15.48(7.4)	15.94(6.7)
	Figure Reasoning	15.45(4.3)	15.30(4.2)	15.96(4.1)	14.82(4.6)	16.51(3.6)
	Digit Symbol	23.89(11.5)	22.68(11.7)	23.42(12.5)	22.28(13.0)	22.0(12.2)
	Objects Recalled	5.63(2.6)	5.11(3.0)	4.95(3.2)	5.05(3.4)	5.30(3.5)
Study Characteristics		yes				
Retention from pr	revious wave (%)	100.0	85.0	71.9	62.9	63.3
Representative sample		yes				
Oldest Birth Col	nort (year)					

Table 3. Descriptive statistics for Octo-Twin (Females)

			Year of	Assessment		
Variable		Baseline	Year 2	Year 4	Year 6	Year 8
		(n = 468)	(n = 401)	(n = 290)	(n = 225)	(n = 165)
		M (SD)				
Demographic						
Age, years		83.80(3.3)	85.73(3.2)	87.44(3.0)	89.28(2.9)	90.91(2.54)
Education, ye	ears	6.96(1.9)				
Height, cm		157.04				
Smoking hist	cory (%)					
Cardiovascul	ar disease(%)					
Diabetes (%)		9.5				
Physical						
Pulmonary:	PEF	281.82(80.6)	297.64(85.0)	292.71(76.0)	263.13(71.9)	254.71(73.5)
Muscle:	Grip Strength	7.89(2.4)	7.08(2.6)	6.25(2.6)	5.98(2.5)	5.64(2.2)
Gait:	Walking Speed					
Cognitive						
	MMSE	24.07(7.6)	23.07(8.6)	22.78(9.2)	22.55(9.2)	22.12(8.4)
	Digit Span	5.26(1.2)	4.92(1.5)	4.85(1.6)	4.72(1.4)	4.75(1.4)
	Forward					
	Digit Span	3.16(1.6)	3.02(1.6)	2.76(1.7)	2.86(1.5)	2.84(1.4)
	Backward					
	Prose	8.83(4.5)	8.81(4.7)	8.89(4.7)	8.85(4.8)	8.74(4.8)
	Information	24.58(12.4)	26.05(12.3)	25.53(13.0)	25.88(13.4)	25.12(11.5)
	Block Design	10.53(7.3)	10.31(7.1)	10.28(7.0)	10.50(7.1)	9.49(7.2)
	Synonyms test	16.77(5.7)	16.21(6.0)	16.67(5.8)	17.01(5.8)	16.28(5.9)
	Figure Reasoning	15.36(4.1)	15.51(4.3)	15.91(3.8)	15.73(4.5)	14.91(3.9)
	Digit Symbol	22.83(11.8)	23.51(11.3)	23.14(11.8)	23.07(12.5)	20.79(11.4)
	Objects Recalled	5.97(3.0)	5.46(3.4)	5.43(3.5)	5.64(3.6)	5.81(3.5)
Study Characteristic	cs					
Retention from previous wave (%)		100.0	85.7	72.3	77.6	73.3
Representative sample		yes				
Oldest Birth Col	nort (year)					

Table 4. Descriptive statistics for Octo-twin (Excluding older adults with dementia)

			Year of	Assessment		
Variable		Baseline	Year 2	Year 4	Year 6	Year 8
		(n = 477)	(n = 404)	(n = 294)	(n = 223)	(n = 174)
		M (SD)	M (SD)	M (SD)	M (SD)	M (SD)
Demographic		,	, ,	, ,	, ,	, ,
Age, years		83.47(3.2)	85.37(3.1)	87.09(2.8)	88.90(2.8)	90.65(2.4)
Education, ye	ears	7.29(2.5)				
Height, cm		161.94(8.8)				
Smoking hist	cory (%)					
Cardiovascul	ar disease(%)					
Diabetes (%)		9.4				
Physical						
Pulmonary:	PEF	325.31(106.5)	340.28(107.2)	331.04(96.7)	300.32(96.7)	278.97(97.4)
Muscle:	Grip Strength	9.07(2.9)	8.33(2.7)	7.71(2.8)	7.06(2.7)	6.52(2.6)
Gait:	Walking Speed					
Cognitive						
	MMSE	26.88(3.9)	26.70(4.3)	27.05(4.0)	26.23(5.3)	24.76(5.5)
	Digit Span	5.48(1.2)	5.24(1.1)	5.2(1.1)	5.1(1.0)	5.1(1.0)
	Forward					
	Digit Span	3.41(1.5)	3.38(1.4)	3.26(1.4)	3.18(1.3)	3.01(1.3)
	Backward					
	Prose	9.97(4.0)	10.41(3.6)	10.43(3.7)	10.91(3.4)	10.12(3.5)
	Information	29.21(10.5)	30.37(10.1)	30.04(10.8)	29.92(11.2)	27.51(10.5)
	Block Design	12.14(7.1)	12.63(6.8)	12.69(6.6)	12.15(6.8)	11.38(6.9)
	Synonyms test	17.08(6.0)	17.03(6.2)	16.82(6.2)	17.33(6.1)	16.55(6.2)
	Figure Reasoning	15.67(4.2)	15.87(3.9)	16.00(3.9)	16.01(4.0)	15.67(3.8)
	Digit Symbol	25.47(10.7)	25.90(10.4)	26.40(10.8)	26.12(10.7)	23.54(10.4)
	Objects Recalled	6.79(2.2)	6.77(2.3)	6.80(2.5)	6.89(2.7)	6.71(2.9)
Study Characteristic						
Retention from previous wave (%)		100.0	84.7	72.8	75.9	78.0
Representative sample		yes				
Oldest Birth Col	nort (year)					

Table 5. Descriptive statistics for Octo-Twin (Excluding older adults with dementia, Males)

			Year of	Assessment		
Variable		Baseline	Year 2	Year 4	Year 6	Year 8
		(n = 166)	(n = 138)	(n = 100)	(n = 63)	(n = 45)
		M (SD)	M (SD)	M (SD)	M (SD)	M (SD)
Demographic						
Age, years		83.22(3.0)	84.94(2.7)	86.84(2.5)	88.33(2.2)	90.25(2.2)
Education, ye	ears	7.64(3.1)				
Height, cm		170.97				
Smoking hist	tory (%)					
Cardiovascul	ar disease(%)					
Diabetes (%)		11.8				
Physical						
Pulmonary:	PEF	393.78(115.3)	408.11(113.0)	395.51(99.7)	374.89(104.6)	330.76(122.2)
Muscle:	Grip Strength	10.86(3.0)	10.04(10.0)	9.30(9.3)	8.90(8.9)	8.32(8.3)
Gait:	Walking Speed					
Cognitive						
	MMSE	26.56(4.0)	26.37(4.8)	26.93(4.2)	25.84(6.0)	23.84(5.6)
	Digit Span	5.63(1.3)	5.29(1.09)	5.20(1.09)	5.02(1.12)	5.19(1.02)
	Forward					
	Digit Span	3.26(1.6)	3.38(1.5)	3.22(1.3)	3.04(1.5)	3.03(1.4)
	Backward					
	Prose	9.50(4.3)	10.00(4.1)	9.97(4.2)	11.22(3.9)	9.57(4.1)
	Information	32.45(8.8)	32.43(9.3)	32.06(9.9)	32.00(9.8)	28.80(11.3)
	Block Design	11.75(7.4)	12.43(7.6)	12.27(7.8)	11.77(7.5)	11.67(7.7)
	Synonyms test	16.86(7.0)	16.87(6.9)	16.89(7.1)	16.44(7.2)	16.21(6.9)
	Figure Reasoning	15.55(4.4)	15.76(3.8)	15.64(4.2)	15.83(3.8)	16.63(3.7)
	Digit Symbol	25.45(11.1)	24.90(11.1)	26.46(11.3)	25.45(11.4)	24.23(11.5)
Objects Recalled		6.23(2.2)	6.26(2.3)	6.23(2.6)	6.20(2.9)	6.22(3.0)
Study Characteristic						
Retention from previous wave (%)		100.0	83.1	72.5	63.0	71.4
Representative sample		yes				
Oldest Birth Col	nort (year)					

Table 6. Descriptive statistics for Octo-Twin (Excluding older adults with dementia, Females)

		Year of Assessment				
Variable		Baseline	Year 2	Year 4	Year 6	Year 8
		(n = 311)	(n = 266)	(n = 194)	(n = 160)	(n = 129)
		M (SD)	M (SD)	M (SD)	M (SD)	M (SD)
Demographic						
Age, years		83.61(3.3)	85.60(3.3)	87.22(2.9)	89.13(2.9)	90.80(2.5)
Education, ye	ears	7.10(2.0)				
Height, cm		157.37(5.7)				
Smoking hist	cory (%)					
Cardiovascul	ar disease(%)					
Diabetes (%)		8.1				
Physical						
Pulmonary:	PEF	288.93(80.7)	303.46(83.7)	297.05(75.7)	268.74(73.5)	257.34(74.1)
Muscle:	Grip Strength	8.13(2.3)	7.45(2.3)	6.87(2.2)	6.35(2.3)	5.91(2.2)
Gait:	Walking Speed					
Cognitive						
	MMSE	27.05(3.8)	26.88(4.1)	27.12(4.0)	26.38(5.1)	25.08(5.4)
	Digit Span	5.40(1.2)	5.22(1.1)	5.27(1.0)	5.08(.9)	5.02(1.0)
	Forward					
	Digit Span	3.49(1.4)	3.38(1.3)	3.27(1.4)	3.24(1.2)	3.00(1.3)
	Backward					
	Prose	10.23(3.8)	10.60(3.4)	10.63(3.3)	10.82(3.3)	10.28(3.3)
	Information	27.54(10.9)	29.25(10.3)	28.95(11.1)	29.11(11.7)	27.04(10.24)
	Block Design	12.34(6.9)	12.74(6.3)	12.91(5.9)	12.30(6.4)	11.29(6.6)
	Synonyms test	17.20(5.5)	17.11(5.8)	17.16(5.7)	17.67(5.6)	16.66(6.0)
	Figure Reasoning	15.74(4.0)	15.93(4.0)	16.20(3.7)	16.09(4.2)	15.35(3.8)
	Digit Symbol	25.49(10.6)	26.46(10.1)	26.38(10.5)	26.38(10.4)	23.30(10.1)
Objects Recalled		7.07(2.2)	7.04(2.3)	7.09(2.4)	7.18(2.6)	6.87(2.9)
Study Characteristic						
Retention from previous wave (%)		100.0	85.5	72.9	82.4	80.6
Representative sample		yes				
Oldest Birth Col	nort (year)					