

***Descriptive Analysis: Homocysteine and Cognitive Function***  
***Dataset Snapshot and Missingness***

<i>N_Observations</i>
900

**Descriptive Analysis: Homocysteine and Cognitive Function  
Dataset Snapshot and Missingness**

**The MEANS Procedure**

Variable	Label	N	
		N	Miss
age	Age (years)	900	0
pkyrs	Pack-years of smoking	811	89
hcy	Plasma homocysteine (umol/L)	900	0
lhcy	Log plasma homocysteine	900	0
folate	Plasma folate (nmol/mL)	888	12
vitb12	Plasma vitamin B12 (pmol/L)	763	137
vitb6	Plasma vitamin B6 (nmol/L)	831	69
mmse	Mini-Mental State Examination (0-30)	895	5
adin7yrs	AD within 7 years (0/1)	663	237

**Descriptive Analysis: Homocysteine and Cognitive Function  
Dataset Snapshot and Missingness**

**The FREQ Procedure**

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*Sex (1=Male,0=Female)*

	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
<i>male</i>				
Female	560	62.22	560	62.22
Male	340	37.78	900	100.00

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*Education category (1-4)*

	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
<i>educg</i>				
.	15	1.67	15	1.67
<8 years	34	3.78	49	5.44
>=8 years, no HS	246	27.33	295	32.78
HS, no college	327	36.33	622	69.11
Some college+	278	30.89	900	100.00

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*HS degree or higher (1=Yes,0=No)*

	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
<i>hsdeg</i>				
.	15	1.67	15	1.67
No	280	31.11	295	32.78
Yes	605	67.22	900	100.00

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*Age group (65-89)*

	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
<i>agegrp</i>				
65-74	432	48.00	432	48.00
75-79	271	30.11	703	78.11
80-84	145	16.11	848	94.22
85-89	52	5.78	900	100.00

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*Exclude due to missing ADIN7YRS (1=Yes,0=No)*

	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
<i>exclude</i>				
No	663	73.67	663	73.67
Yes	237	26.33	900	100.00

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*Cognitive deficit flag (education-adjusted)*

	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
<i>mmsef</i>				
.	20	2.22	20	2.22
No	774	86.00	794	88.22
Yes	106	11.78	900	100.00

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**Descriptive Analysis: Homocysteine and Cognitive Function**  
**Dataset Snapshot and Missingness**

**The FREQ Procedure**

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<i>HCY &gt;= 14 umol/L (1=Yes,0=No)</i>				
<i>hcyge14</i>	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
No	656	72.89	656	72.89
Yes	244	27.11	900	100.00

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**Descriptive Analysis: Homocysteine and Cognitive Function**  
**Table 1: Descriptive Summary (Overall)**  
**Continuous Variables**

**The MEANS Procedure**

<i>Variable</i>	<i>Label</i>	<i>N</i>	<i>Mean</i>	<i>Std Dev</i>	<i>Median</i>	<i>Lower Quartile</i>	<i>Upper Quartile</i>	<i>Minimum</i>	<i>Maximum</i>
age	Age (years)	900	75.76	4.83	75.00	72.00	79.00	68.00	89.00
pkys	Pack-years of smoking	811	16.26	22.05	1.45	0.00	30.73	0.00	122.56
hcy	Plasma homocysteine (umol/L)	900	12.58	6.10	11.20	9.10	14.20	3.50	66.90
lhcy	Log plasma homocysteine	900	2.45	0.39	2.42	2.21	2.65	1.25	4.20
folate	Plasma folate (nmol/mL)	888	6.46	7.20	4.30	2.50	7.79	0.00	110.78
vitb12	Plasma vitamin B12 (pmol/L)	763	439.75	223.97	394.29	278.71	571.00	20.00	1000.00
vitb6	Plasma vitamin B6 (nmol/L)	831	80.26	94.97	51.78	30.31	87.46	2.52	500.00
mmse	Mini-Mental State Examination (0-30)	895	27.79	3.27	29.00	27.00	30.00	0.00	30.00

**Descriptive Analysis: Homocysteine and Cognitive Function**  
**Table 1: Descriptive Summary (Overall)**  
**Categorical Variables**

**The FREQ Procedure**

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*Sex (1=Male,0=Female)*

<i>male</i>	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
<i>Female</i>	560	62.22	560	62.22
<i>Male</i>	340	37.78	900	100.00

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*Education category (1-4)*

<i>educg</i>	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
.	15	1.67	15	1.67
<8 years	34	3.78	49	5.44
>=8 years, no HS	246	27.33	295	32.78
HS, no college	327	36.33	622	69.11
Some college+	278	30.89	900	100.00

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*HS degree or higher (1=Yes,0=No)*

<i>hsdeg</i>	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
.	15	1.67	15	1.67
No	280	31.11	295	32.78
Yes	605	67.22	900	100.00

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*Age group (65-89)*

<i>agegrp</i>	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
65-74	432	48.00	432	48.00
75-79	271	30.11	703	78.11
80-84	145	16.11	848	94.22
85-89	52	5.78	900	100.00

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*Cognitive deficit flag (education-adjusted)*

<i>mmsef</i>	<i>Frequency</i>	<i>Percent</i>	<i>Cumulative Frequency</i>	<i>Cumulative Percent</i>
.	20	2.22	20	2.22
No	774	86.00	794	88.22
Yes	106	11.78	900	100.00

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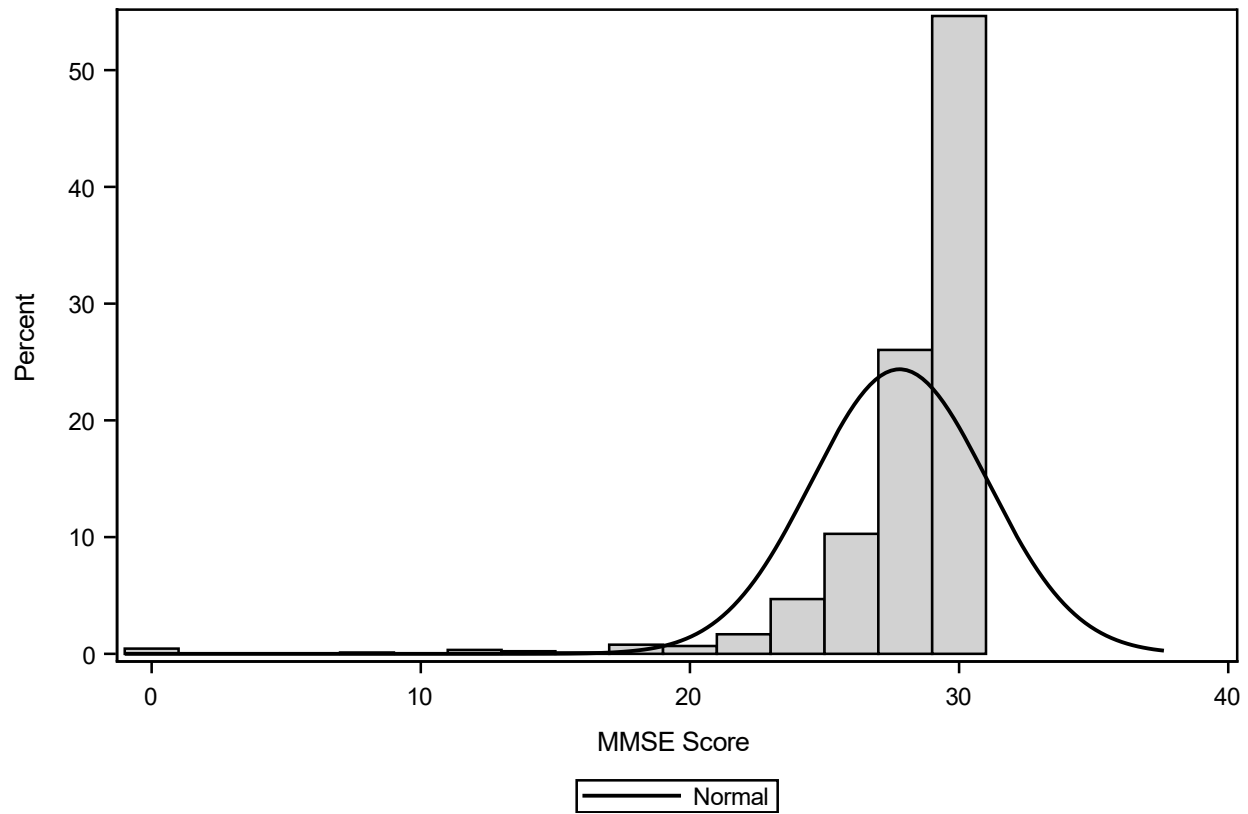
**Descriptive Analysis: Homocysteine and Cognitive Function**  
**Table 1: Descriptive Summary (Overall)**  
**Categorical Variables**

**The FREQ Procedure**

HCY >= 14 umol/L (1=Yes,0=No)				
hcyge14	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No	656	72.89	656	72.89
Yes	244	27.11	900	100.00

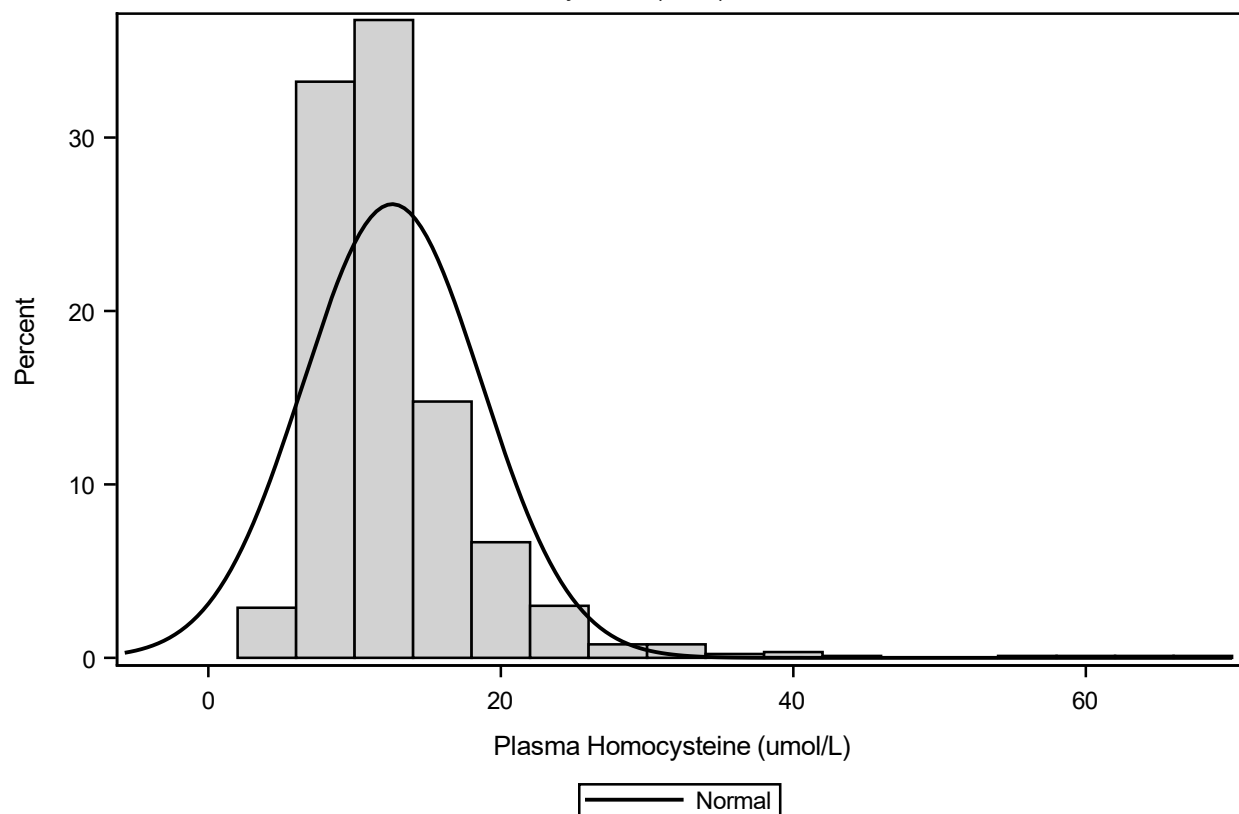
# Descriptive Analysis: Homocysteine and Cognitive Function

## Distributions MMSE Distribution



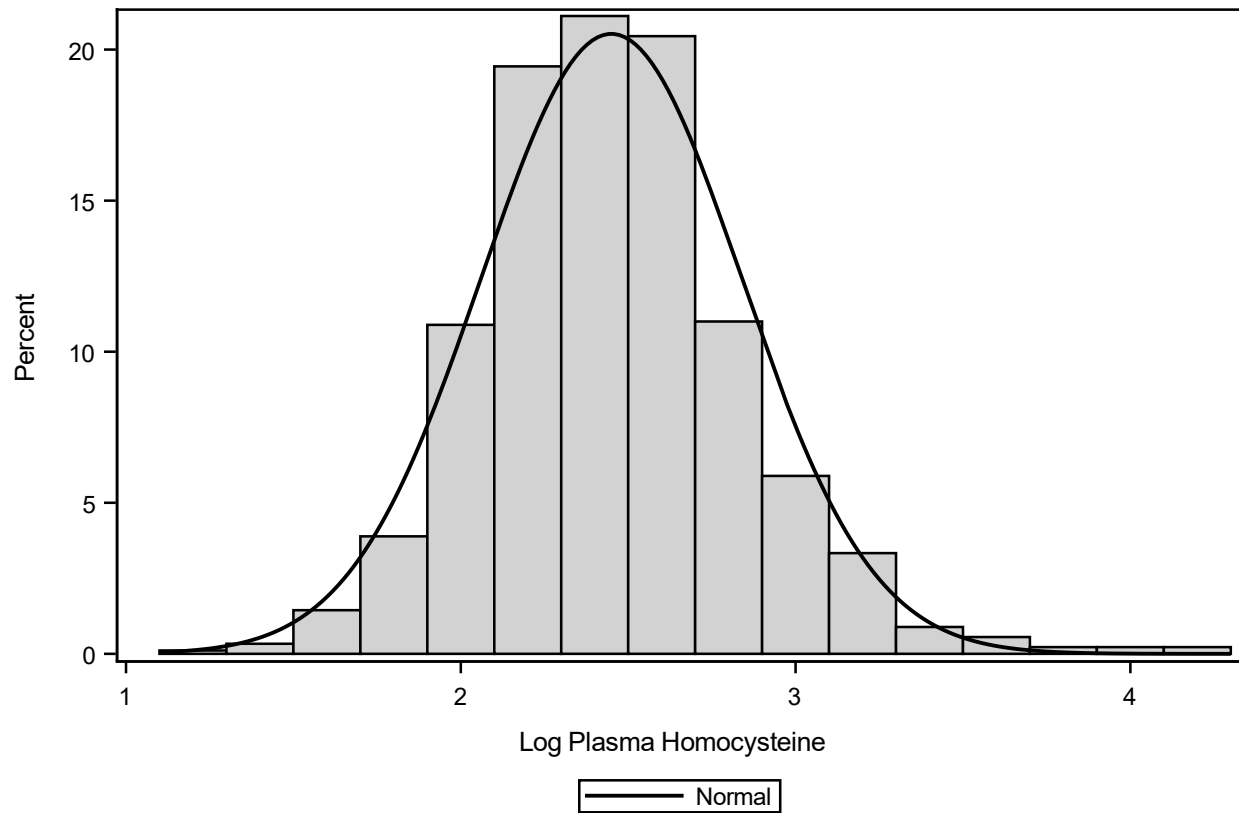


Descriptive Analysis: Homocysteine and Cognitive Function  
Distributions  
Homocysteine (HCY) Distribution

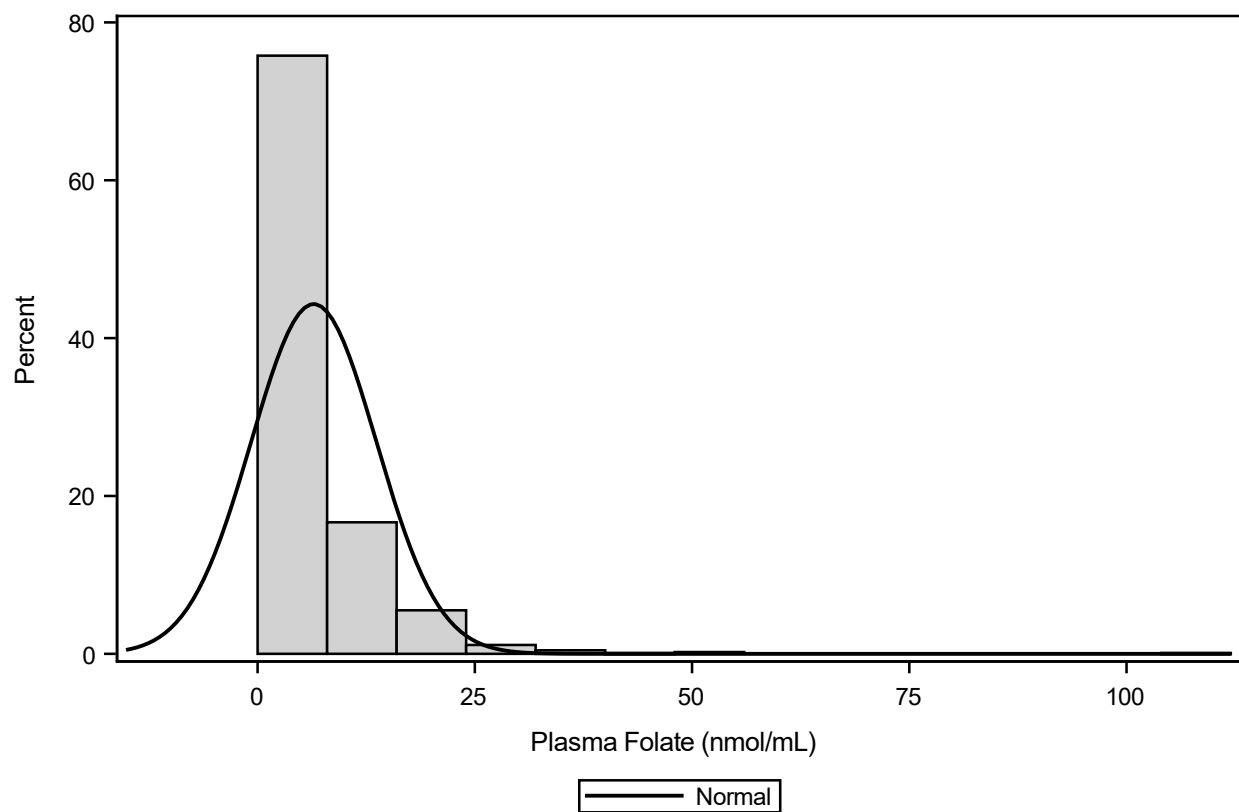


# Descriptive Analysis: Homocysteine and Cognitive Function Distributions

## Log Homocysteine (LHCY) Distribution

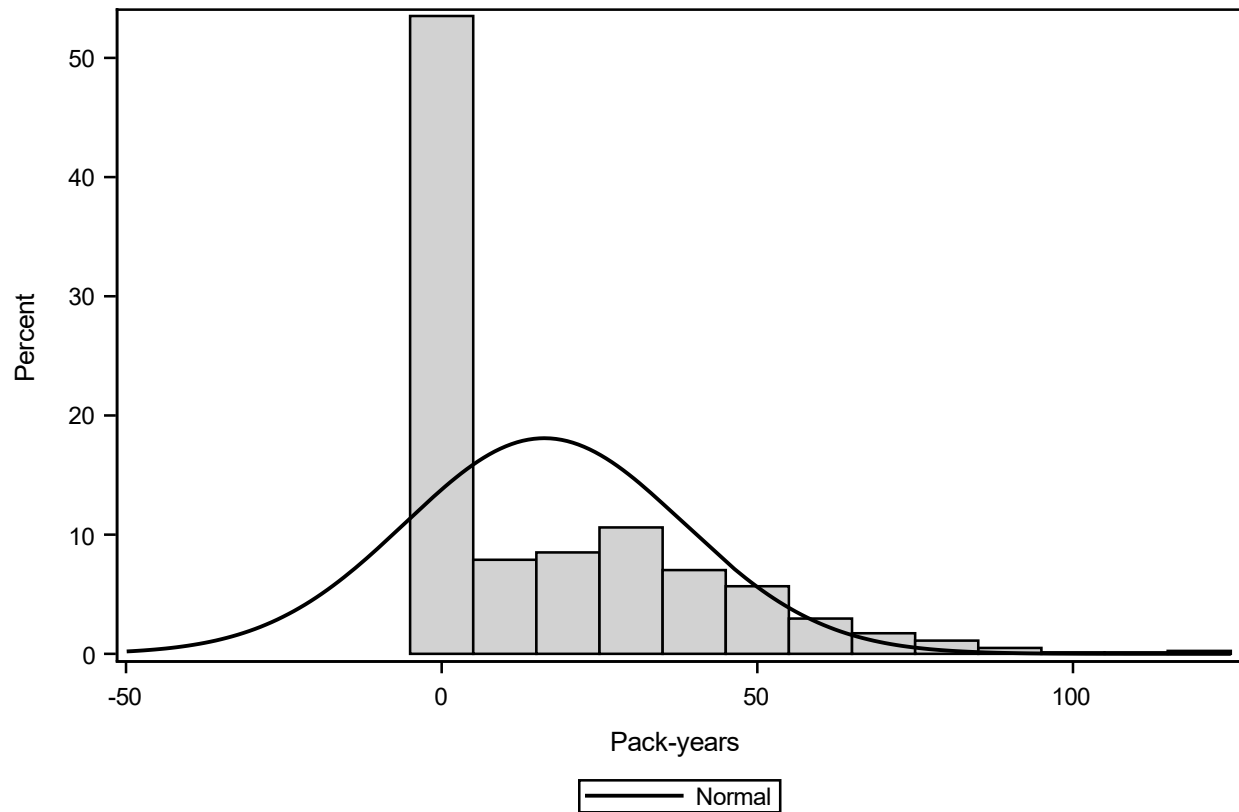


Descriptive Analysis: Homocysteine and Cognitive Function  
Distributions  
Folate Distribution

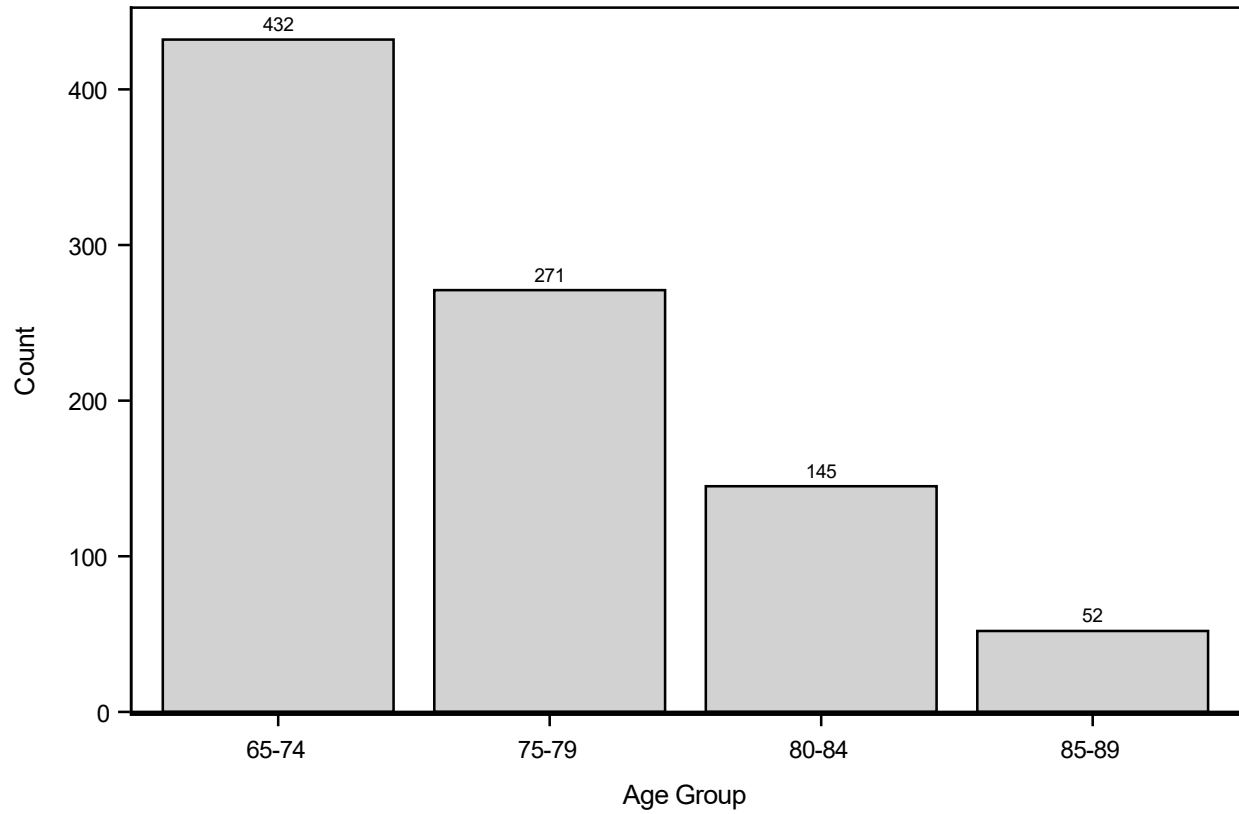


Descriptive Analysis: Homocysteine and Cognitive Function  
Distributions

Pack-years of Smoking (PKYRS) Distribution



Descriptive Analysis: Homocysteine and Cognitive Function  
Categorical Distributions  
Age Group Distribution



# Descriptive Analysis: Homocysteine and Cognitive Function

## Categorical Distributions

### Elevated Homocysteine (HCY $\geq 14$ ) Distribution

