

NHANES 99+  
Codebook for Data Collection (1999-2000)  
June 2002

**Muscle Strength Examination (MSX)**  
Person level data -- use Examination Weights for analysis

SEQN	Version Info	Target
	Version 1.0	B(50 Yrs. - 150 Yrs.)
Hard Edits	SAS Label	
	Sample person identifier	
English Text: Sample person identifier.		
English Instructions: < blank >		
Codes:		

  

MSAEXLEN	Version Info	Target
	Version 1.0	B(50 Yrs. - 150 Yrs.)
Hard Edits	SAS Label	
	length of a MEC exam (sec)	
English Text: length of a MEC exam (sec)		
English Instructions: < blank >		
Codes:		

  

MSAEXSTS	Version Info	Target
	Version 1.0	B(50 Yrs. - 150 Yrs.)
Hard Edits	SAS Label	
	Status of a MEC exam	
English Text: Status of a MEC exam		
English Instructions: < blank >		
Codes:		
<ul style="list-style-type: none"> <li>1 = Complete</li> <li>2 = Partial</li> <li>3 = Not done</li> </ul>		

MSAEXCMT	Version Info	Target
	Version 3.1	B(50 Yrs. - 150 Yrs.)
Hard Edits	SAS Label	
	Comment code for an exam	
English Text: Comment code for an exam		
English Instructions: < blank >		
<p>Codes:</p> <ul style="list-style-type: none"> <li>0 = None</li> <li>1 = Safety exclusion</li> <li>2 = SP refusal</li> <li>3 = No time</li> <li>4 = Physical limitation</li> <li>5 = Communication problem</li> <li>6 = Equipment failure</li> <li>7 = SP ill/emergency</li> <li>8 = Awaiting pregnancy results</li> <li>9 = Body cast</li> <li>10 = Did not meet return requirement</li> <li>11 = Data effect</li> <li>12 = Eye specific limitation</li> <li>13 = Inability to lie still</li> <li>14 = Interrupted</li> <li>15 = Invalid pregnancy test</li> <li>16 = Missing meal or food</li> <li>17 = Missing time periods</li> <li>18 = Needs DR</li> <li>19 = Needs edit</li> <li>20 = Not enough hair</li> <li>22 = Pain or discomfort</li> <li>23 = Poor cuff fit</li> <li>24 = Priority 1 stopping criteria</li> <li>25 = Priority 2 stopping criteria</li> <li>26 = Protocol change</li> <li>27 = Proxy no information</li> <li>28 = Race/ethnicity</li> <li>29 = SP did not meet fast</li> <li>30 = SP failed test(s)</li> <li>31 = SP in supine position</li> <li>32 = SP moved during procedure</li> <li>33 = SP not pregnant</li> <li>34 = SP movement</li> </ul>		

34 = SP pregnant  
35 = Stage 1 & stage 2 hr manually entered  
36 = Stage 1 hr manually entered  
37 = Stage 2 hr manually entered  
38 = Technical difficulty  
39 = Unable to calculate protocol  
40 = Unable to follow protocol  
41 = Width exceeds scan table  
42 = Alternative protocol used  
43 = Weight limitation on equipment  
45 = Clotted  
46 = Result based on single run  
48 = No test kit available  
49 = Urine not collected  
50 = Control results invalid  
51 = SP unable to comply  
52 = Quantity not sufficient  
53 = Laboratory error  
54 = Collected in field office  
55 = Exceeds height limitation  
56 = Came late/left early  
57 = Needs phone follow-up  
58 = Unable to obtain all bps  
59 = Unable to compress ankle artery  
60 = Problem obtaining bp  
61 = Problem obtaining hr  
62 = Problem with data capture  
63 = Problem with electrodes  
64 = Problem with bp cuff  
65 = Problem with treadmill controller  
66 = Data acquisition problems  
67 = Needs blood draw  
68 = Needs questionnaire  
69 = Collected in home  
72 = Error (technician/software/supply)  
80 = SP Can't Read  
99 = Other, specify

MSDEXCLU	Version Info	Target
	Version 2.0	B(50 Yrs. - 150 Yrs.)
Hard Edits	SAS Label	
	Exclusion criteria for muscle strength	
English Text: Exclusion criteria for muscle strength exam		
English Instructions: < blank >		
Codes: 1 = Chest or abdomen surgery in the past three weeks 2 = Myocardial infarction (or "heart attack") in the past six weeks 3 = Told by doctor had an aneurysm in the brain or had a stroke 4 = Have severe neck or back pain today 5 = Difficulty in bending or straightening right knee 6 = Had right knee or right hip replacement		

  

MSXWTIME	Version Info	Target
	Version 1.0	B(50 Yrs. - 150 Yrs.)
Hard Edits	SAS Label	
	Time to complete 20 ft walk (seconds)	
English Text: Time to complete 20 ft walk (seconds)		
English Instructions: < blank >		
Codes:		

  

MSXWPAIN	Version Info	Target
	Version 1.0	B(50 Yrs. - 150 Yrs.)
Hard Edits	SAS Label	
	Pain reported on walking:	
English Text: Pain reported on walking:		
English Instructions: < blank >		
Codes: 1 = Yes 2 = No		

  

MSAWDEV	Version Info	Target
	Version 1.0	B(50 Yrs. - 150 Yrs.)
Hard Edits	SAS Label	
	Type of device used:	
English Text: Type of device used:		
English Instructions: < blank >		

Codes:

- 1 = None
- 2 = Cane
- 3 = Walker
- 4 = Other

<b>MSDPTIME</b>	<b>Version Info</b>	<b>Target</b>
	Version 2.0	B(50 Yrs. - 150 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>	
	Time to peak force in seconds	
English Text: Time to peak force in seconds		
English Instructions: < blank >		

<b>MSDPFANG</b>	<b>Version Info</b>	<b>Target</b>
	Version 2.0	B(50 Yrs. - 150 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>	
	Angle of peak force (degrees)	
English Text: Angle of peak force (degrees)		
English Instructions: < blank >		
Codes:		

<b>MSXARML</b>	<b>Version Info</b>	<b>Target</b>
	Version 2.0	B(50 Yrs. - 150 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>	
	Arm length cm	
English Text: Arm length cm		
English Instructions: < blank >		
Codes:		

<b>MSXGRAV</b>	<b>Version Info</b>	<b>Target</b>
	Version 2.0	B(50 Yrs. - 150 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>	
	Gravity Correction in Lb	
English Text: Gravity Correction in Lb		
English Instructions: < blank >		
Codes:		

<b>MSDPFVEL</b>	<b>Version Info</b>	<b>Target</b>
	Version 1.0	B(50 Yrs. - 150 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>	
	Peak force velocity degree/seconds	
English Text: Peak force velocity degree/seconds		
English Instructions: < blank >		
Codes:		

<b>MSDPF</b>	<b>Version Info</b>	<b>Target</b>
	Version 1.0	B(50 Yrs. - 150 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>	
	Peak force (Newtons)	
English Text: Peak force (Newtons)		
English Instructions: < blank >		
Codes:		

<b>MSDNTR</b>	<b>Version Info</b>	<b>Target</b>
	Version 1.0	B(50 Yrs. - 150 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>	
	Number of trials	
English Text: Number of trials		
English Instructions: < blank >		
Codes:		

<b>MSDAPF</b>	<b>Version Info</b>	<b>Target</b>
	Version 1.0	B(50 Yrs. - 150 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>	
	Average peak force (Newtons)	
English Text: Average peak force (Newtons)		
English Instructions: < blank >		
Codes:		

<b>MSDPFTR</b>	<b>Version Info</b>	<b>Target</b>
	Version 1.0	B(50 Yrs. - 150 Yrs.)
<b>Hard Edits</b>	<b>SAS Label</b>	
	The selected peak force trial	
English Text: The selected peak force trial		
English Instructions: < blank >		
Codes:		

