
Appendix - 2

APHSV99 Data Set - Explanatory Notes

I. File format:

1. The data set is provided in a single floppy disk containing a file named APHSVDataSet99.TXT.
2. Data is provided in ASCII text file format, with comma as delimiters and "" as text qualifiers. The first row contains the field labels.

II. Overview of records and arrangement of data:

1. Data is provided in a panel format. since each valuer provided valuations for 11 health states, there are 11 records for each valuer. Thus the valuer's personal information is repeated for all the 11 corresponding rows.

Table-A2.1: Overview of records in the AP Health State Valuation-99 Data set

Data set parameter	Survey			Workshop	Total
	No retest	With retest	Sub total		
Number of valuers	910	100	1,010	180	1,190
Record / valuer	11	11	11	11	11
Total records in the data set	10,010	1,100	11,110	1,980	13,090

III. Fields common to both Workshop and Household survey:

A. VID:

1. Valuer's unique Id.
2. Users may notice that the first character of the Id is usually W for valuers in workshops and F (female) or M (male) for valuers in the household survey. However, we recommend that the specific fields namely Wkshop, Female, be used instead of the pattern in the Valuer's Id.

Table-A2.2: Assignment of sets of health states to valuers and corresponding Vnos

Set	Survey		Workshop	
	No of valuers	Vno block	No of valuers	Vno block
1	269	201- 469	45	1-45
2	247	470-715	31	46-76
3	247	716-962	30	77-106
4	218	962-1181	45	107-151
5			14	152-165
6			15	166-180
7 to 34	29		0	
All	1,010		180	

B. VNo:

1. An integer id for valuers (table-8.2). Some statistical packages require an integer unique id for certain manipulations. For example, executing reshape command in state becomes easier if we have a numeric id in serial. The blocks of numbers were assigned to each of the six sets of the health states. Numbers from the respective block is assigned in serial to valuers who worked on that set of health states. Correspondence of blocks of Vno to sets of health states is given below. For valuers

who worked with one of the non standard sets of health states (sets 7 and above) the Vno field may be empty.

C. Wkshp :

1. This is a numeric field containing Boolean values of 1 or 0.
2. Wkshp=1 if the data in the record was from the health state valuation workshop.
3. Wkshp=0 if the data in the record is from the valuation by household survey.

D. Set:

1. This is an integer field containing the set of health states assigned to the valuer.

E. HealthSt:

1. Health State Code limited to 10 characters corresponding to the name of the health state for which valuation data is contained in the record.

List of these health states and the number of valuations obtained for each from the survey and workshops respectively is shown below.

Table-A2.3: Number of valuations obtained for each health state

HealthSt		Sets ⁺	Survey	Workshop	Both
Angina	Angina	2,5	253	45	298
BKneAmp1	Below the knee amputation (one leg)	3,6	255	45	300
BKneAmp2	Below the knee amputation (two legs)	3,6	258	45	303
Blindness	Blindness	2,5	247	45	292
Bronchitis	Bronchitis	1	279	45	324
CCold	Common cold*	2,5	0	14	14
CMdBkPain	Continuous moderate back pain	4	233	45	278
Infertlty	Infertility	2,5	250	45	295
Mdiabetes	Mild diabetes, no symptoms	C	1004	180	1184
MHrgDis	Mild hearing disorder	4	233	45	278
MTBWRx	Mild Tuberculosis with treatment	C	1008	180	1188
MdAnemia	Moderate Anaemia*	3,6	0	15	15
OwnHlth	Own Health Today	C	1010	180	1190
PnStiffJts	Pain and stiffness in joints	1	278	45	323
PUlcer	Peptic Ulcer	3,6	258	45	303
Qplegia	Quadriplegia	C	1008	180	1188
Schizo	Schizophrenia	1	280	45	325
SMigraine	Severe continuous migraine	C	998	180	1178
SHallFevr	Severe Hallucinatory Fever	2	253	31	284
SHeartFlr	Severe heart failure (congestive)	4	229	45	274
TBAinCast	Two broken arms in cast	3	256	30	286
UMajDep	Unipolar major depression	C	1000	180	1180
UrIncont	Urinary incontinence	1	279	45	324
WDiarrh	Watery Diarrhea 5 times a day	C	1006	180	1186
WMarksFc	White marks on face	4	235	45	280
	All		11110	1980	13090

* These two health states were included in the respective sets in the beginning. Later, the sets were replaced by hallucinatory fever and two broken arms in cast, respectively. Hence number of valuations for these two are relatively small and confined to workshop only. Similarly the number of valuations through workshops is less for the replacement conditions.

+ Only major sets are shown in this column. A few come from 29 survey valuers for whom the assigned sets, got mixed.

F. 6D5L:

1. The 6D5L description of the health state mentioned in the HealthSt field. This is six character string consisting of six digits. Each digit ranges from 1 to 5 corresponding to five levels. The digit in the first position from left represents the functional level in the mobility dimension. The digit in the second position from left represents the functional level in the self care dimension. Similarly, the third to sixth digits represent usual activities, pain, anxiety / depression, and cognition respectively.

G. CurrHISt:

1. Each valuer both in the workshop and in case of the household survey was administered a questionnaire asking for description of his / her own health state on the date of valuation. The questionnaire is titled "Your Health State Today" and presents the 6D5L descriptive system.
2. In addition to the 6D5L descriptive system, the "Your Health State Today" contained a general question comparing his / her health state on the day of valuation with his / her health state over the last one year. The field **CurrHISt** contains code for valuers response to the statement "Compared with my general level of health over the past 12 months, my health state is:" 1 for extremely well to 5 for worse.
3. Response codes have the following meaning.

Codes used in the field "CurrHISt"

Compared with my general level of health over the past 12 months, my health state is:

Code	Meaning
1	Extremely well
2	Better
3	Much the same
4	Bad
5	Worse

H. CSRnk:

1. Card sort rank. The ranking given by the valuer to this health state among the 11 health states, valued by him / her. This number ranges from 1-11.
2. Rank 1 means best and rank 11 means worst among the set of 11 health states for which the card sorting is done.
3. Note that ranks have meaning within respective sets. Although cross referencing through the ranks of the core health states should be feasible.

I. DWtVAS:

1. Disability weight from the visual analogue scale based valuations.
2. Actually the valuers were asked to value by assigning a health state weight in a scale from 0 = worst imaginable health state to 100 best imaginable health state. These valuations have been converted to weights in a 0-1 scale (by deflating all measurements with 100). This health state weight is then transformed to disability weights [Disability weight = (1 - Health state weight)]. The disability weights are given in the data set. Health state weights can be recovered by reverse transformation.
3. The DWtVAS value for quadriplegia in case of VID=W15_3d is zero, even though the card sort rank assigned, by this person, is 11 i.e. the worst of all. This person could not reconcile the CS & VAS ranks and hence the discrepancy.

J. VASMatchd:

1. 1 if rank order of VAS scale value matched with card sort rank order, 0 if did not match.

K. RTstDone:

1. For 100 randomly chosen valuers in household survey, the valuation exercise was repeated after a gap of about one week to 10 days, to estimate test retest reliability of the measurement tools and valuation methodology.
2. For 15 valuers in the workshop repeat VAS and TTO exercise was done after a gap of three months.
3. RTstDone=1 implies that the retest was done.
4. RTstDone=0 means that retest was not done.

L. CSRnk_R:

1. Rank assigned to the health state by the valuer, in the retest. As in case of card sort rank for the first time, rank 1 means best and rank 11 means worst among the set of 11 health states for which the card sorting is done.

M. DWtVAS_R:

1. Same as DWtVAS i.e. disability weight from the visual analogue scale based valuations, but this field contains the results from the retest valuation in household survey.

N. DTOFINT:

1. Date of the primary valuation exercise. In case of workshop this is the workshop date. In case of household survey, the date of the first interview. This field is about the date of primary interview and not the retest.

O. INTWCODE:

1. MDHSV Workshop co-ordinator, or, in case of HSV household survey, the interviewer code.

P. POINTINT:

1. Place of first survey interview or workshop as the case may be.
2. Note that the survey took place in Kondakal village (1007) and Seriguda (3 valuers) hamlet of the same village. So this field contains either of these two strings for records from the survey.
3. All workshop were conducted at IHS and hence all workshop records show IHS in this field.

Q. Age:

1. Age of the valuer in years. Range of values in the data set: 16-86 years.

R. Female:

1. This field is to denote sex. Thus if female = 0 it would mean that the valuer was a male.
2. Sex composition of valuers is given below:

Table-A2.4 Gender composition of valuers

Study arm	Female	Males	Total
Survey with retest	50	50	100
Survey, no retest	441	468	909
Workshop	88	92	180
All	579	610	1,189

S. Schoolyr:

1. Years of schooling including formal education beyond the high school, received by the valuer.

T. "Difficulty Encountered" fields:

1. In case of the survey, interviewer's were asked to make an assessment about the extent of difficulty encountered by the valuer while dealing with different aspects of the measurement tool.
2. In case of workshops, valuers were asked to give their own assessment.
3. For workshops data is available for 34 valuers only, since the response sheet in which these questions were included, was introduced mid course from the 10th workshop onwards.
4. For the survey, data is available for all valuers.
5. Since TTO (Time tradeoff) and PTO (Person Tradeoff) were specific to the workshop, the fields containing valuer's assessment of difficulty encountered with these two valuation exercises is described under the section "Fields specific to the valuation workshops".

Table-A2.5: Fields containing observations about the valuation instrument

Field name	Expansion of the field name	Codes			
		0	1	2	8
DECSort	Difficulty encountered while performing the card sort	No difficulties	Yes, some difficulties	Yes, a lot of difficulties	Can't Assess
DEOwnHI	Difficulty encountered in assessing own health	No difficulties	Yes, some difficulties	Yes, a lot of difficulties	Can't Assess
DEVAS	Difficulty encountered while performing the VAS	No difficulties	Yes, some difficulties	Yes, a lot of difficulties	Can't Assess

IV. Fields specific to the valuation workshops:

A. Prof:

1. Profession of the valuer. Field type is string.

B. Qual:

1. Educational qualification of the valuer. Field type is string.

C. VASIt1:

1. First VAS response. Field type is numeric.
2. If a person did only one iteration, the same values are reflected in the DWtVAS field also.

D. VASIt:

1. Number of iterations by the valuer, to arrive at the final VAS valuation of the health states. Values range from 0-4. 0 means no additional iterations were necessary and the valuers completed the valuation in one attempt.

E. TTOAtmptd:

1. 1 if the valuer attempted the TTO exercise, 0 if did not attempt. Null if wkshp=0
2. All, except one (VID=W83_3u), attempted the TTO exercise.

F. TTOIttn1:

1. First TTO response.
2. Values for the following 19 records in this field are zero for all health states. W1_*, W2_, W3_, W4_, W5_, W6_, W7_, W8_, W9_, W10_, W11_, W12_, W13_, W14_, W15_, W16_, W83_, W180_, W41_.
3. Out of these the VIDs W1 to W16 correspond to the first workshop. The data entry cum feedback spread sheet did not have the facility to record the number of iterations. The idea of recording the number of iterations occurred to us, mid course, since we realised that this may give some clue about the practicality of TTO exercise.
4. For VID W83_, the valuer left the workshop and hence was not available to complete the TTO exercise.
5. For VIDs W180_ & W41_ the valuers uniformly filled in a value outside of the plausible range. Hence the spread sheet program resulted in an error.
6. If a person did only one iteration, the same values are reflected in the DWtTTO field also.

G. TTOIttn:

1. Number of iterations by the valuer, to arrive at the final TTO valuation of the health states. Values range from 0-13. 0 means no additional iterations were necessary and the valuers completed the valuation in one attempt.

H. DwtTTO:

1. Disability weight arrived through the TTO exercise.
2. Some valuers did not get to reconcile their TTO valuations with card sort ranks and gave up mid course. For them the latest round values are incorporated in this field.
3. The DWtTTO value for VID=W172_4d may appear implausible for conditions like Severe heart failure (0.05) and Severe continuous migraine (0.9). We have actually double checked with records and the values are correctly reflected in the data set.

I. DwtTTO_R:

1. Disability weight arrived through a repeat TTO exercise.
2. Only 15 valuers in the workshop were administered the retest.

J. TTOMatchd:

1. 1 if rank order of TTO valuation matched with card sort rank order, 0 if did not match. Null, if wkshp=0

K. PTOAtpmtd:

1. 1 if the valuer attempted the PTO exercise, 0 if did not attempt. Null if wkshp=0

L. PTO1Ittn1:

1. First PTO1 response. Field type is numeric.

M. PTO2Ittn1:

1. First PTO2 response. Field type is numeric.

N. PTOIttn:

1. Number of iterations by the valuer, to arrive at the final PTO valuation of the health states. Values range from 0-4. 0 means no additional iterations were necessary and the valuers completed the valuation in one attempt. Field type is numeric.

O. DWtPTO:

1. Disability weight arrived through the PTO exercise.

2. Although efforts were made to persuade valuers to reconcile their card sort rank with the rank implied by their TTO valuation, all valuers did not like to do this. For those who stopped because they felt uncomfortable with the reconciliation exercise, or were exhausted due to many iterations, the CSRnk and the ranking implied by DWtTTO values may not match.
3. Field type is numeric.

P. PTOMatchd:

1. 1 if rank order of PTO valuation matched with card sort rank order, 0 if did not match. Null, if Wkshp=0 Or (Wkshp=1 And PTOAtmptd=0)

Q. "Difficulty Encountered" fields:

1. Valuers in the workshops were asked to give their own assessment about the difficulty they encountered in working with the TTO and PTO instrument. Refer to the section describing variables common to the workshop and survey, where another three such variables have been described.
2. However, data for all valuers in the workshops is not available.

Table-A2.6: Fields containing observations about the valuation instrument

Field name	Expansion of the field name	Codes			
		0	1	2	8
DEPTO	Difficulty encountered while performing the PTO	No difficulties	Yes, some difficulties	Yes, a lot of difficulties	Can't Assess
DETTO	Difficulty encountered while performing the TTO	No difficulties	Yes, some difficulties	Yes, a lot of difficulties	Can't Assess

R. Workshop feedback fields:

1. Valuers in the workshops were asked to give their feedback about usefulness of written instructions (WI) and spoken instructions (SI) on respective valuation exercises.

Table-A2.7: Fields containing valuer's feedback about usefulness of written and spoken instructions

Field	Expansion of the field name	Codes for all fields
WBWP	Written background on the workshop purpose	
SPDHS	Spoken Presentation on different domains of health status	
WICS	Written instructions on the Card sort	
SICS	Spoken instructions on the Card sort	0 = Not helpful
WIVAS	Written instructions on the VAS	1 = Somewhat helpful
SIVAS	Spoken instructions on the VAS	2 = Very helpful
WITTO	Written instructions on the TTO	
SITTO	Spoken instructions on the PTO	
WIPTO	Written instructions on the PTO	
SIPTO	Spoken instructions on the PTO	

2. We introduced these feedback questions starting with the workshop on 01 October, 1999. However, the data set does not have data for a large number of valuers who attended workshops after this date. These are: W64_, W65_, W69_-W98_, W100_-W111_, W132_, W139_, W143_, W144_, W146_, W149_-W161_, W163_-W165_, and W167_.

- These participants did not return the feedback questionnaires. Since these forms were introduced mid course, we could not integrate them into the workshop protocol well enough to achieve full compliance.

V. Fields specific to the household survey:

A. Assisted:

- This is a numeric field with Boolean values of 1 and 0. Assisted = 1 if an assistant was used to communicate and Assisted = 0 if communication between interviewer / researcher and valuer was direct.

B. AsstRel:

- For valuation through household survey, some times, it was difficult for the interviewer to directly communicate with the valuer in the study sample. In such situations assistance of a relative or friend was sought. This field record the relationship of such assistants, if any, to the valuer.
- Following relationships have been recorded:

Relationship	Explanatory notes if any	Relationship	Explanatory notes if any
Brother		Mother	
Brother in law	Spouse's brother	Mother in law	
Co-Sister	Husband's brother's wife	Nephew	
Cousin		Paternal uncle	
Daughter		Sister	
Daughter in law		Sister in law	
Father		Son	Spouse's sister
Grand daughter		Son in law	
Grand mother		Wife	
Husband			

C. Caste:

- Caste of the valuer:

Codes used in the field "Caste"

Code	Meaning
0	Not available
1	SC i.e. member of a caste listed in the schedule to the Indian constitution.
2	ST i.e. member of a tribe listed in the Indian constitution.
3	BC i.e. member of a caste identified as backward by the state.
4	OC, i.e. all other castes

D. OWNSHOUS:

- This is a numeric field containing Boolean values to represent if the valuer owns a house. OWNSHOUS=1 implies that the valuer owns a house and OWNSHOUS=0 means that (s)he does not own a house.

E. Fields giving information about ownership of consumer durables or agricultural equipment that provide indirect evidence about economic status of the valuer's household:

- The following fields are numeric containing a Boolean value of 1 or 0. 1 means that the valuer's household has the particular consumer durable with them. These data was collected to provide some idea about the economic status of the valuer's household.
 - RADIO

- ii. TV
- iii. FRIDGE
- iv. BICYCLE
- v. TWOWHEEL
- vi. SEWMCHNE
- vii. SOFA
- viii. LAND
- ix. LIVESTOK
- x. BULLOCK
- xi. CART
- xii. PUMP
- xiii. FAN

F. WaterSc:

1. This is a numeric field containing coded information about the type of water source enjoyed by the valuer. Codes are as follows:

Codes used in the field "WaterSc"

Type	Meaning
1	Private protected (piped / deep bore well)
2	Private unprotected (shallow bore well, open well)
3	Public protected (piped, deep bore well)
4	Public Unprotected (open well)
5	Natural unprotected (spring, river, pond, lake)
6	Other

G. Toilets:

1. This is a numeric field containing coded information about the type of toilets available to the valuer. Codes are as follows:

Codes used in the field "Toilets"

Type	Meaning
1	Private flush toilet
2	Shared flush toilet
3	Public flush toilet
4	Traditional pit latrine
5	Ventilated improved pit latrine
6	Other
7	No facility/bush/field

2. None of the valuer's use pit latrine. Hence there are no records in the data set where Toilets = 4.

H. Fuel1, Fuel2, and Fuel3:

1. The fuel fields present in the database are FUEL1, FUEL2, FUEL3. These fields describe the order of priority of the fuels used in the valuer's household. Thus Fuel1 is the fuel used having highest priority i.e. the primary fuel used by the household. Fuel2 and Fuel3 are used to capture data from households using more than one fuel. The first secondary fuel is recorded in Fuel2 and the next secondary fuel is recorded in the field Fuel3. Same codes are used for the three fuel fields. The fields are filled in the database depending on the fuel types used in a valuer's household. Thus, the field

FUEL1 is mandatory for any valuer's household; if the valuer's household uses more than one type of fuel, then the fields FUEL2 and FUEL3 are filled in.

Fuel Fields

Code	Meaning	Code	Meaning	Code	Meaning
1	LPG / Natural gas	4	Coal	7	Other
2	Biogas	5	Fire wood / straw		
3	Kerosene	6	Dung		

- For valuers whose household use only one type of fuel, the fields Fuel2, and Feul3 are blank.

I. HouseTp:

- Type of house in which the valuer lives. Following codes are used.

Codes used in the field "HouseTp"

Code	Meaning
0	Rented accommodation
1	Pucca house
2	Kachha house
3	Semi pucca

J. Fields recording Interviewer's Observation about health status of valuer:

- The interviewers for the survey were asked to observe the valuer and record their finding on a few verifiable aspects of the valuer's health status. This data was collected to facilitate correlation of valuer's response on 6D5L about his / her own health state with observable functional states.

Table-A2.8: Fields containing interviewers observations about the valuers

Field Name	Expansion of the field name	Codes		
		0	1	8
ObAmptn	Amputation	No	Yes	Can't Assess
ObCough	Cough	No	Yes	Can't Assess
ObHrgImp	Hearing impairment	No	Yes	Can't Assess
ObPlysis	Paralysis	No	Yes	Can't Assess
ObShbrth	Shortness of Breath	No	Yes	Can't Assess
ObVisnDf	Vision difficulty	No	Yes	Can't Assess
ObWlkAid	Use of walking aid	No	Yes	Can't Assess
ObWlkgDf	Walking difficulty	No	Yes	Can't Assess

K. Accuracy :

- Overall accuracy of respondent's valuation as judged by the interviewer, using following codes.

1	Excellent
2	Very Good
3	Good
4	Fair
5	Poor

L. ResCoop:

1. Respondents cooperation level, using following codes.

1	Very High
2	High
3	Average
4	Low
5	Very Low

M. "Difficulty Encountered" fields:

1. Interviewer's were asked to make an assessment about the extent of difficulty encountered by the valuer while dealing with different aspects of the measurement tool.
2. Refer to the section describing variables common to the workshop and survey, where another three such variables have been described.

Fields containing interviewer's observations about the valuation instrument

		Codes			
Field name	Expansion of the field name	0	1	2	8
DEPInfo	Difficulty encountered while providing personal information	No difficulties	Yes, some difficulties	Yes, a lot of difficulties	Can't Assess

VI. Following information not included to protect respondent and interviewer's personal id:

A. Valuer's Name

B. Interviewer Name
