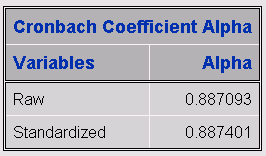
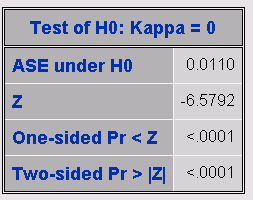
**Internal Consistency Measurement, Patient Survey Data**

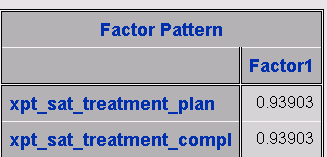
**\* Satisfaction with treatment plan (p. 3 patient survey);**

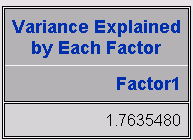
ptsumsattxplan= sum(xpt\_sat\_treatment\_plan, xpt\_sat\_treatment\_compl);

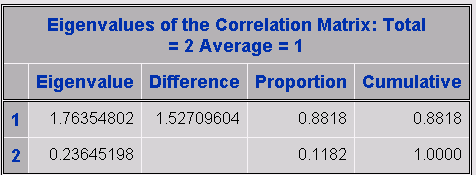
The internal consistency check on this variable is good. The Cronbach coefficient alpha is greater than 0.8 and kappa test is also significant.

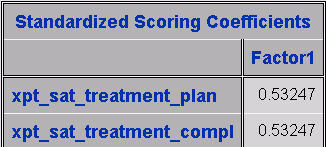


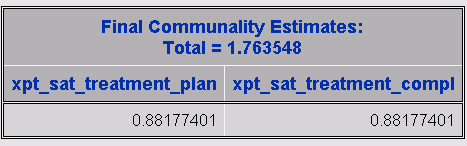


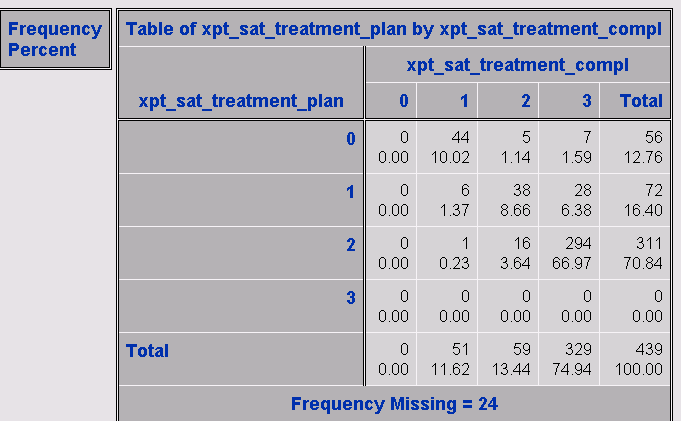


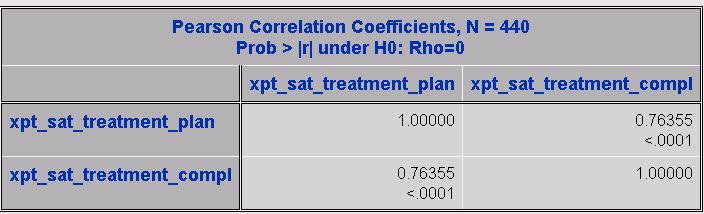






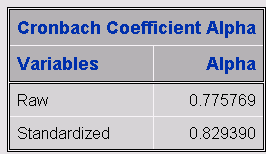


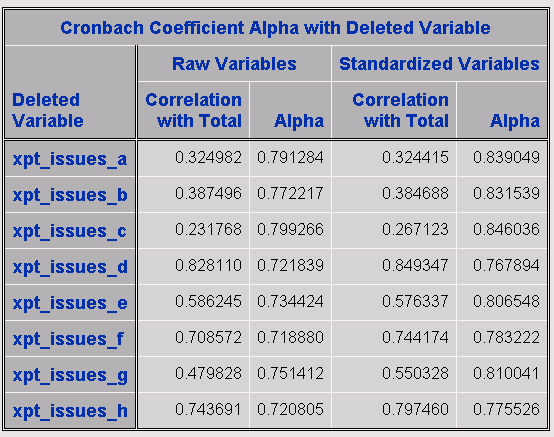


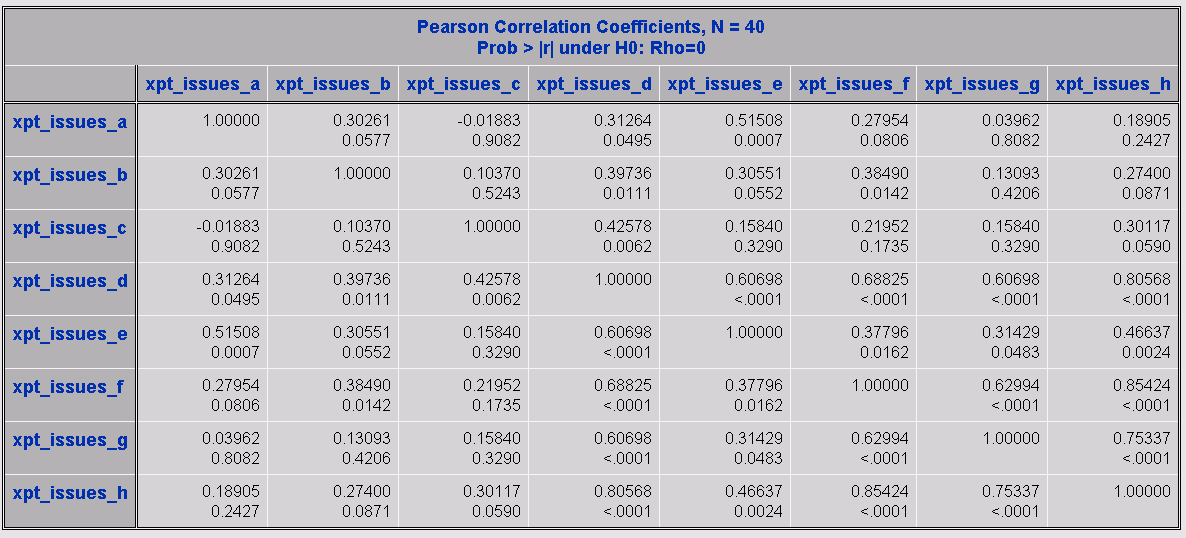


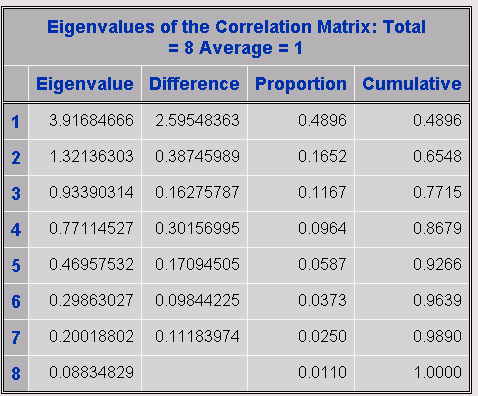
**\* Barriers to completing treatment plan (p. 4 patient survey);**

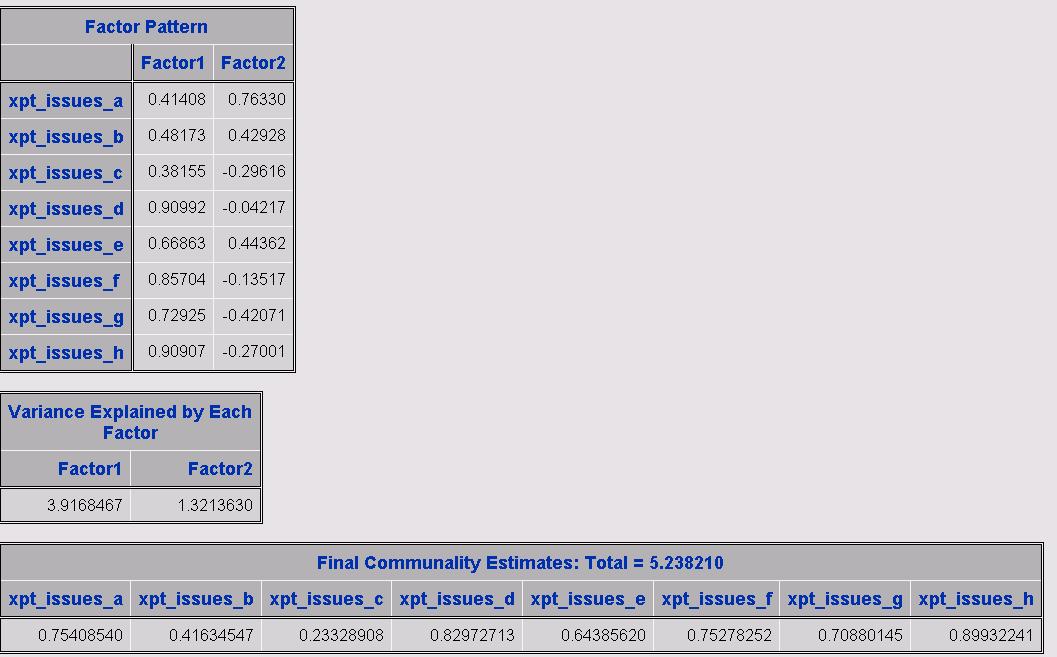
**sumbarriers= sum(xpt\_issues\_a, xpt\_issues\_b, xpt\_issues\_c, xpt\_issues\_d, xpt\_issues\_e, xpt\_issues\_f, xpt\_issues\_g, xpt\_issues\_h);**







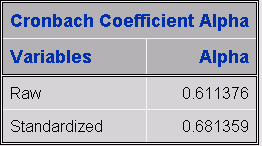


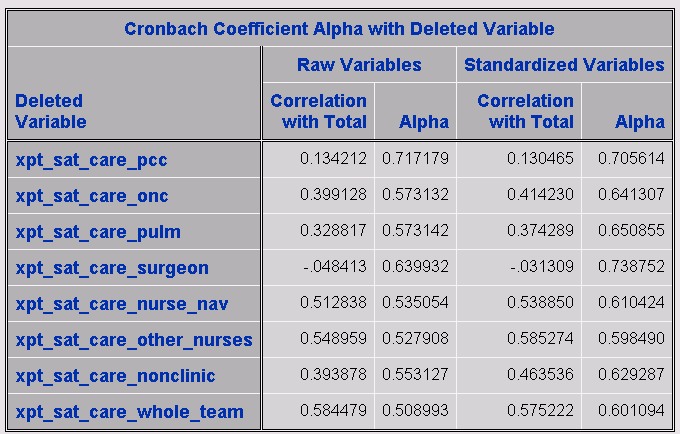


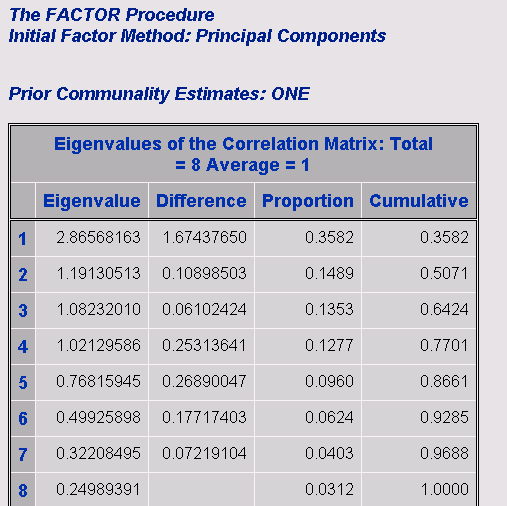
**\* Satisfaction with quality of care from various team members (p. 4 patient survey);**

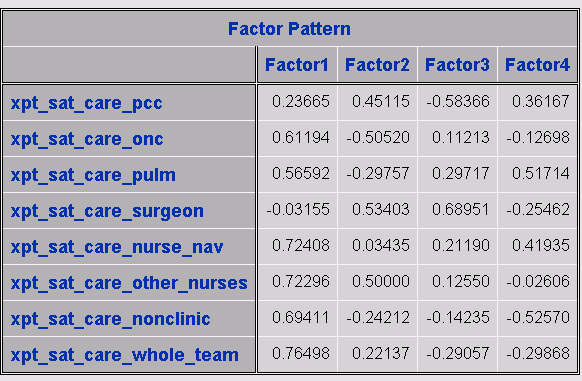
sumsatqc= sum(xpt\_sat\_care\_pcc, xpt\_sat\_care\_onc, xpt\_sat\_care\_pulm, xpt\_sat\_care\_surgeon, xpt\_sat\_care\_nurse\_nav, xpt\_sat\_care\_other\_nurses, xpt\_sat\_care\_nonclinic, xpt\_sat\_care\_whole\_team);

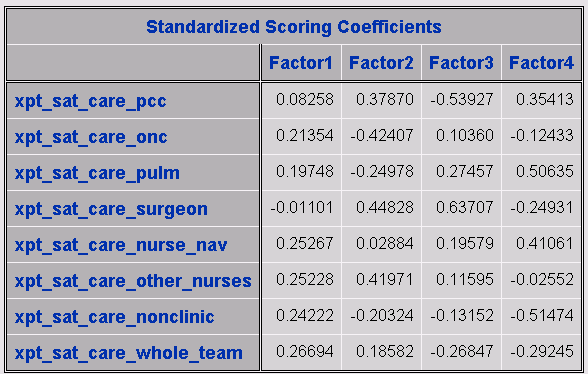
The Cronbach coefficient alpha for this item is lower than 0.7 indicating that this item measurement is questionable. The xpt\_sat\_care\_surgeon has negative correlation with total

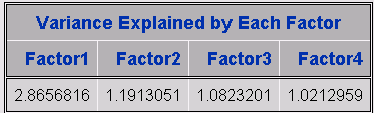




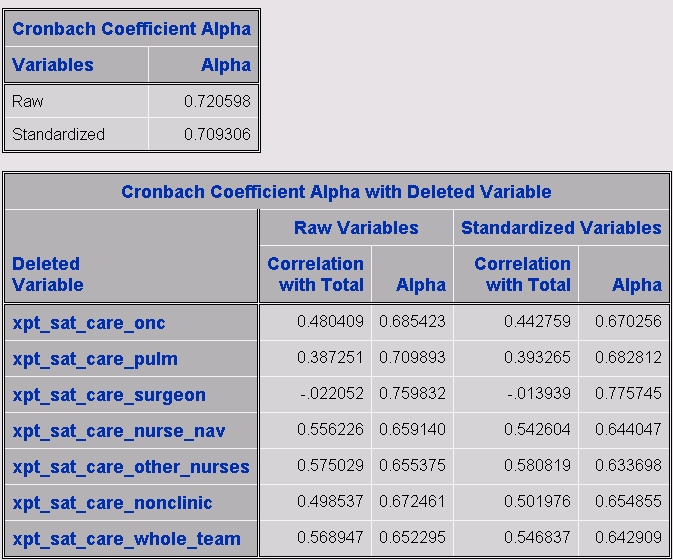


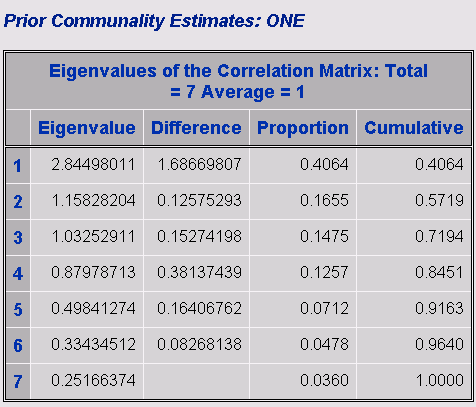


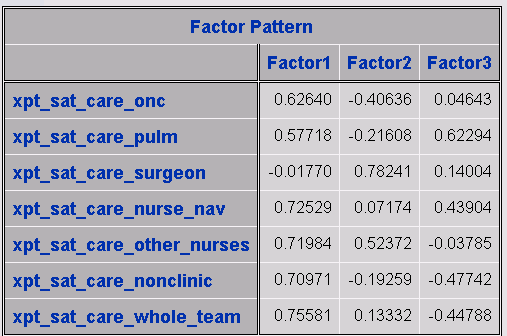


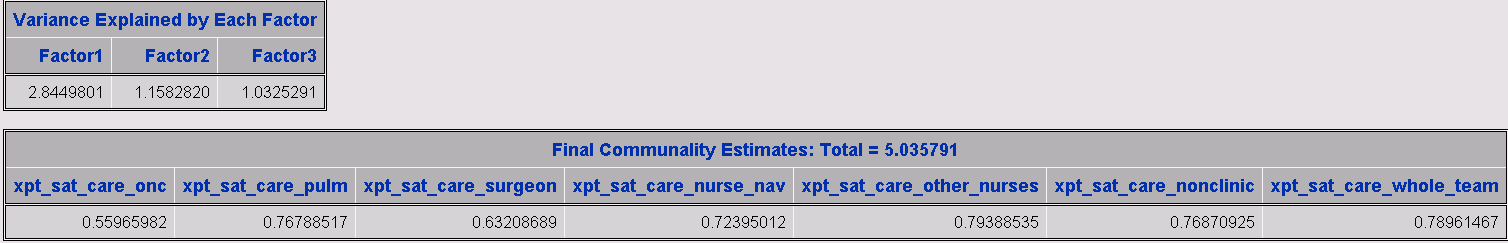


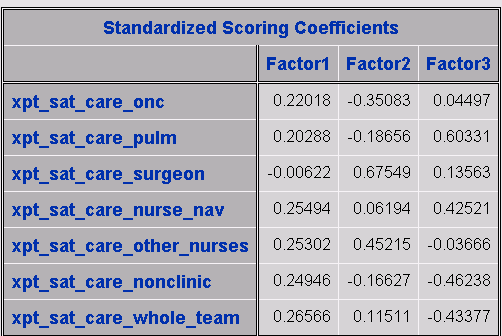
Removing the variable xpt\_sat\_care\_pcc increases the standardized Cronbach coefficient alpha to an acceptable value of 0.709306.



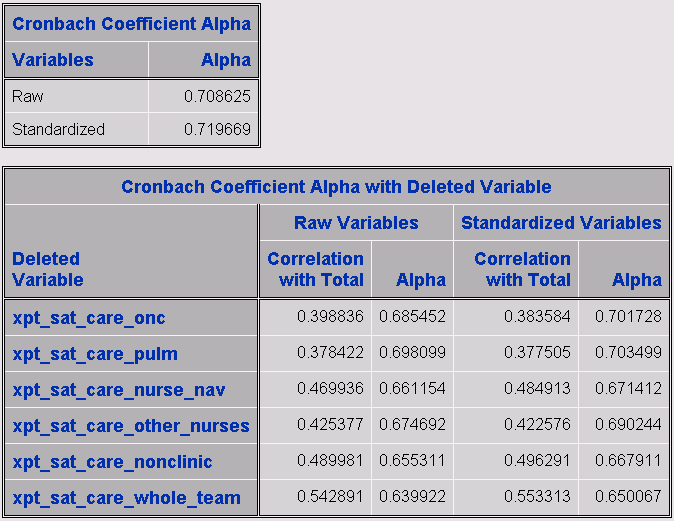


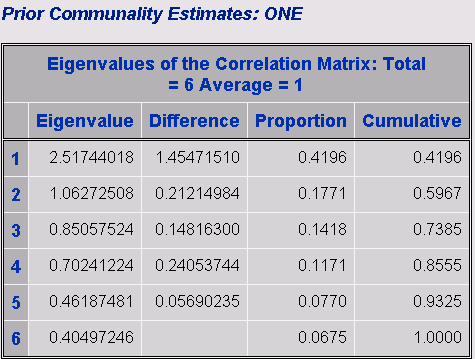


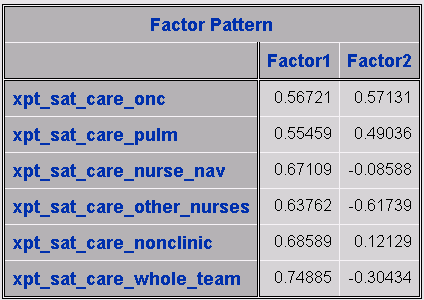


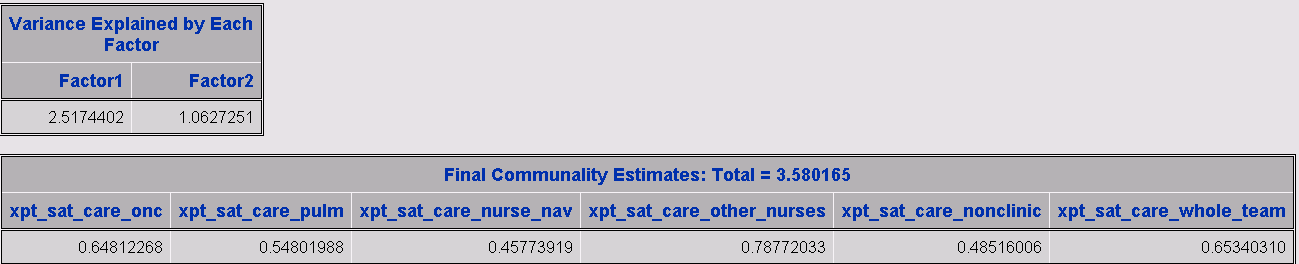


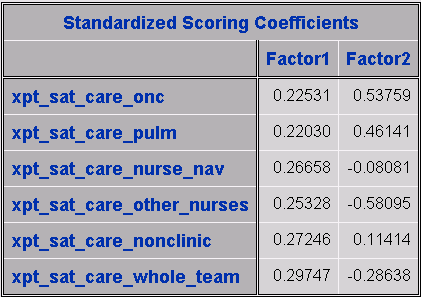
Removing the variable xpt\_sat\_care\_surgeon increases the standardized Cronbach coefficient alpha to an acceptable value of 0.719669.







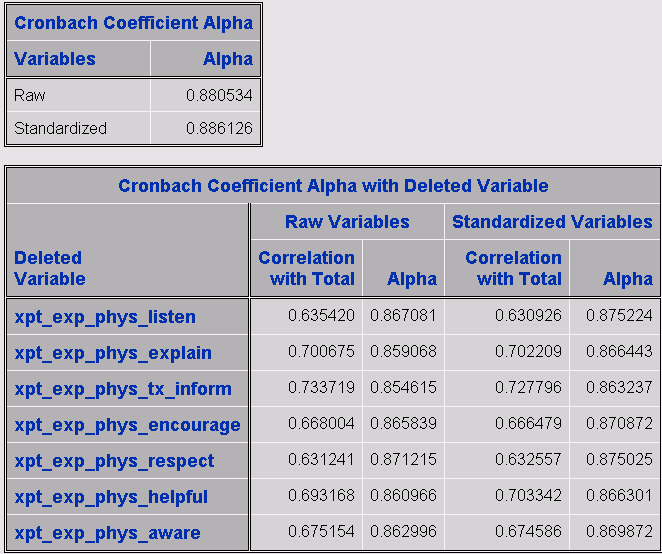


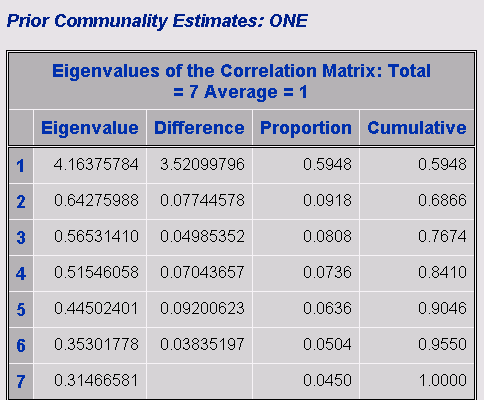


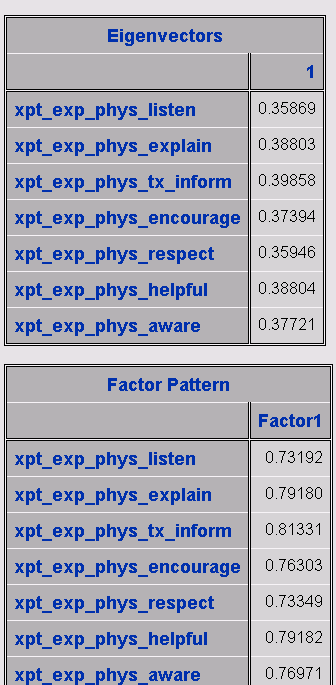
**\* CAHPS items – Physician communication – 5 item version (p. 5 patient survey);**

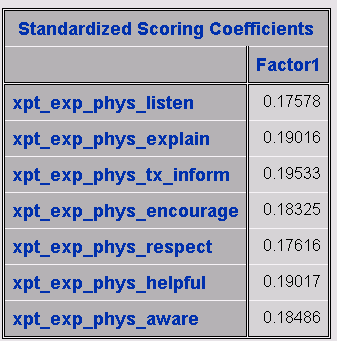
sumphyscomm7= sum(xpt\_exp\_phys\_listen, xpt\_exp\_phys\_explain, xpt\_exp\_phys\_tx\_inform,

xpt\_exp\_phys\_encourage, xpt\_exp\_phys\_respect, xpt\_exp\_phys\_helpful, xpt\_exp\_phys\_aware);





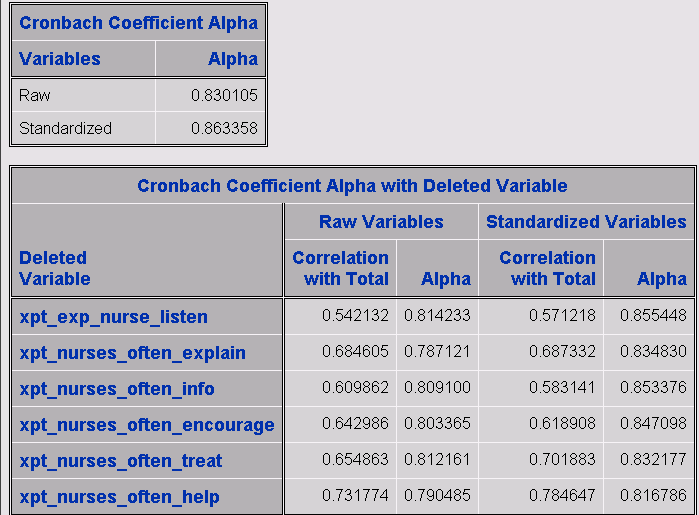


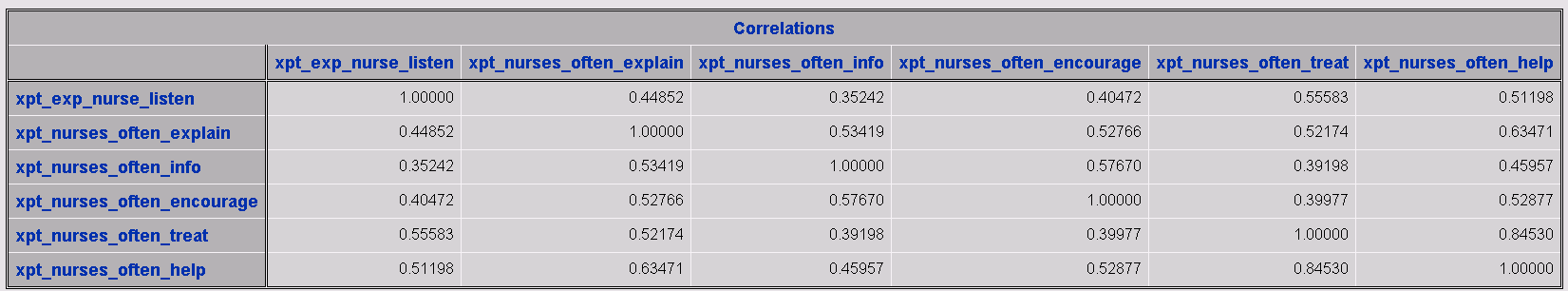


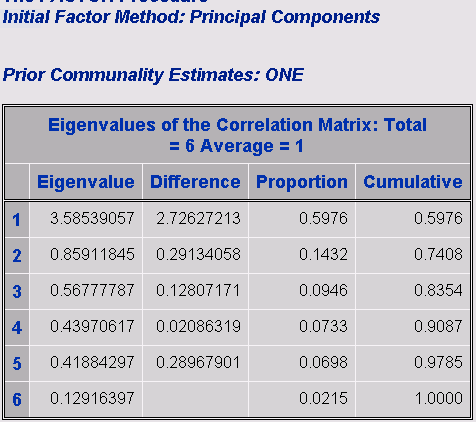
**\* We created a 6-item nurse communication measure based on the CAHPS Physician Communication items (pp 5-6 patient survey);**

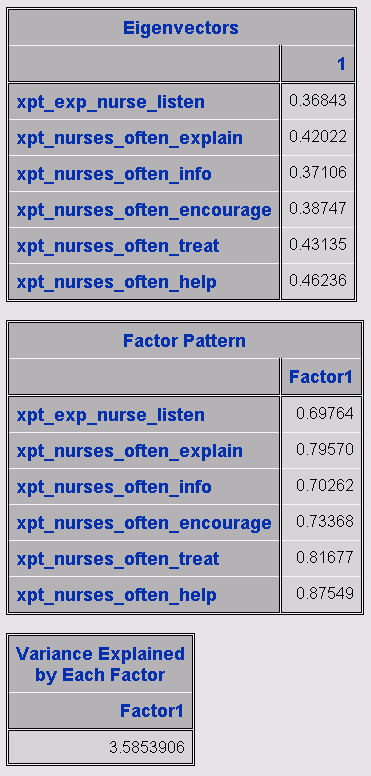
sumnursecomm= sum(xpt\_exp\_nurse\_listen, xpt\_nurses\_often\_explain, xpt\_nurses\_often\_info, xpt\_nurses\_often\_encourage, xpt\_nurses\_often\_treat,

xpt\_nurses\_often\_help);





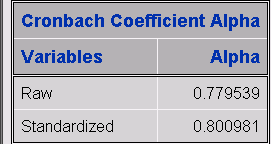


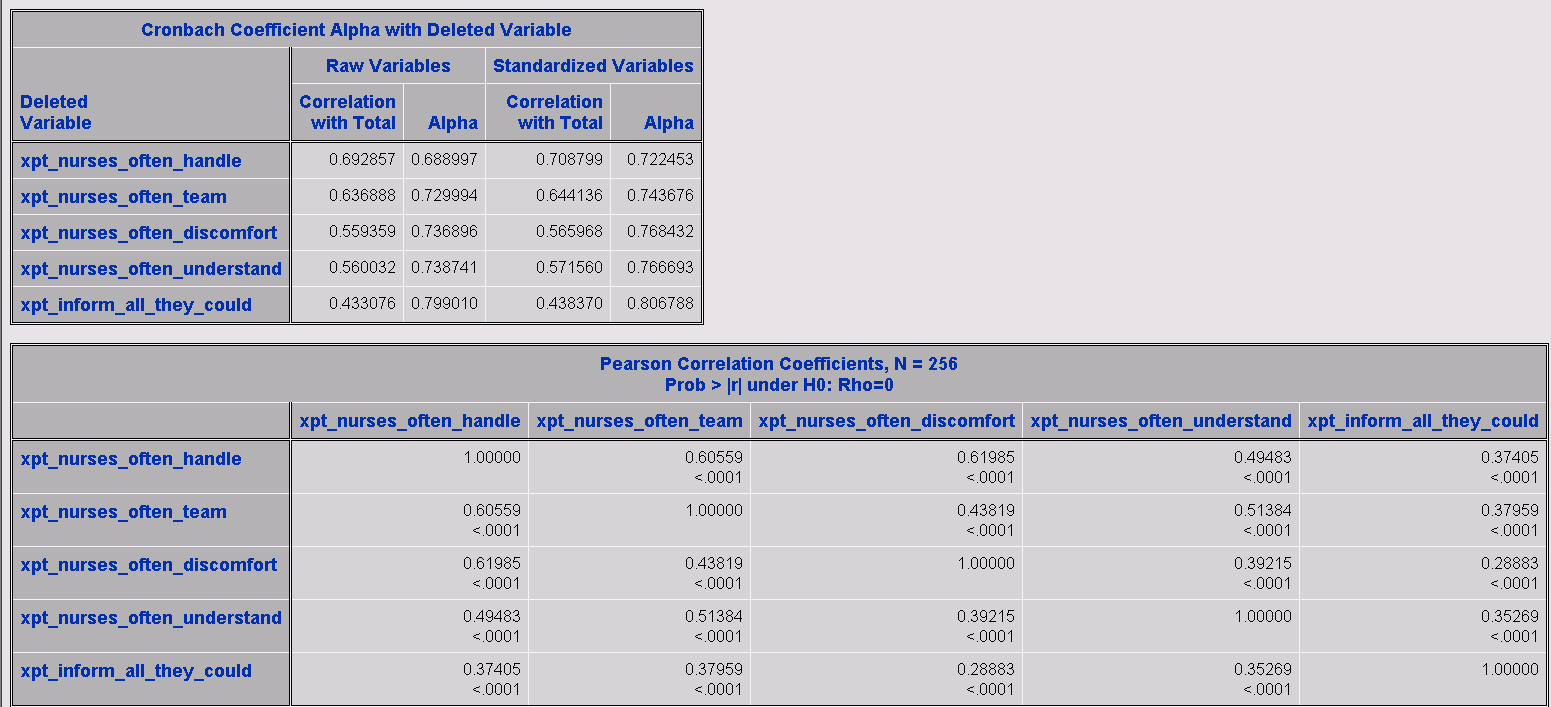


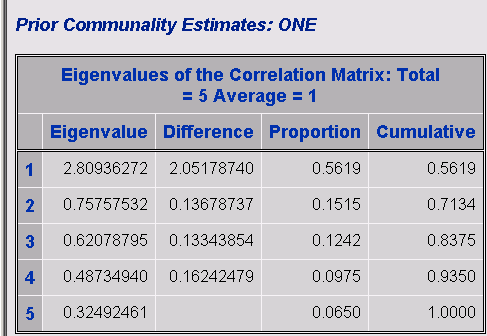
**/\* 4 items (p. 6 of patient survey) plus 1 item (item 7 on p. 7 patient survey) ask about satisfaction with care from the team as a whole; \*/**

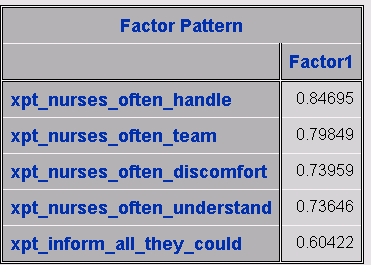
sumteamsat= sum(xpt\_nurses\_often\_handle, xpt\_nurses\_often\_team,

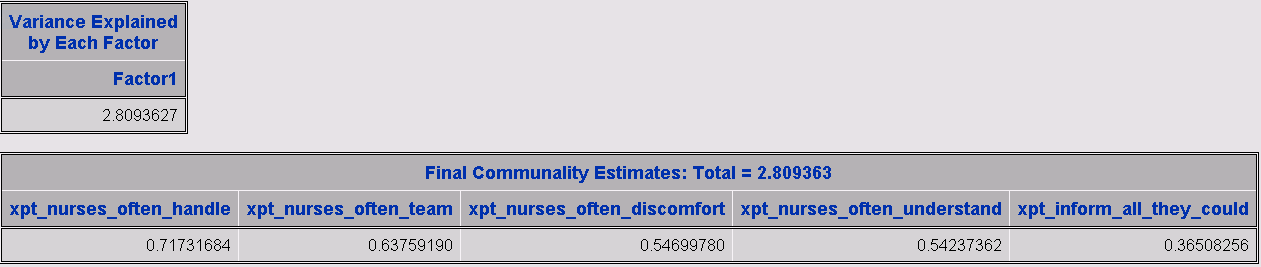
xpt\_nurses\_often\_discomfort, xpt\_nurses\_often\_understand, xpt\_inform\_all\_they\_could);





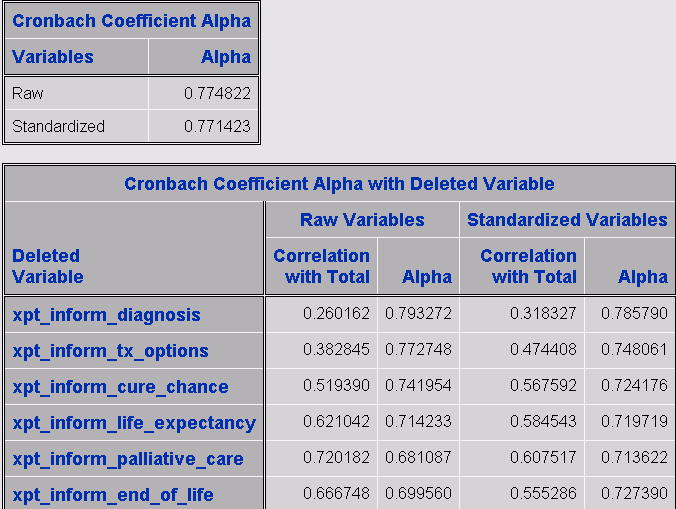


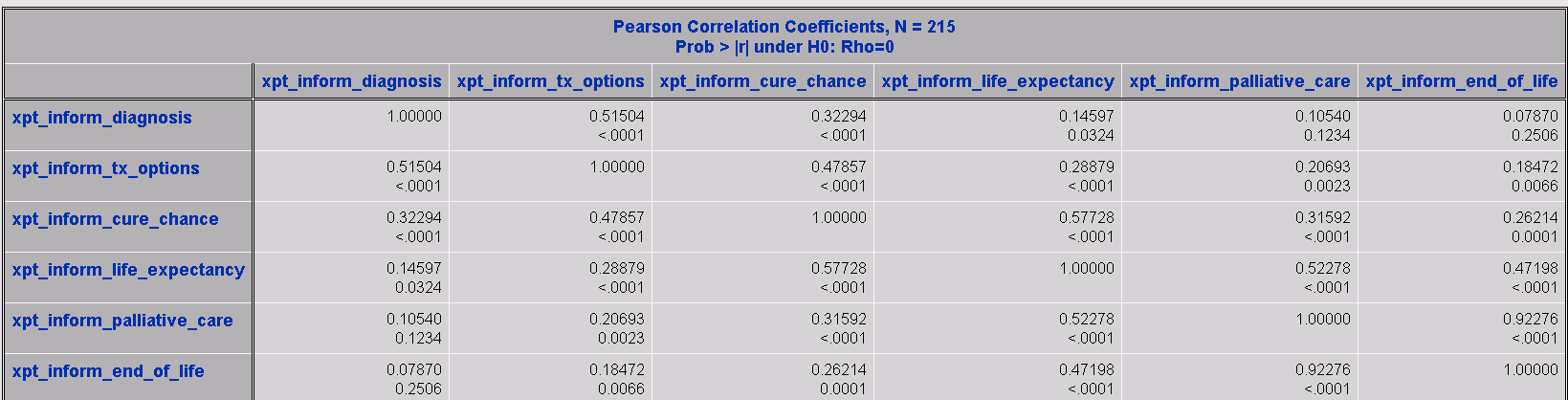


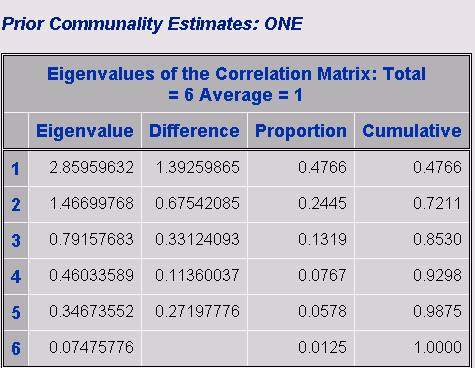


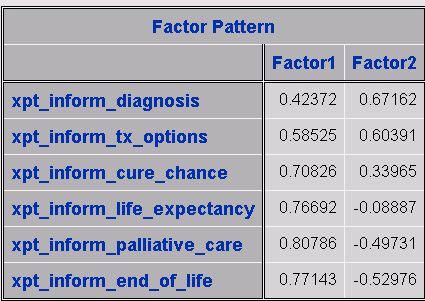
**\* Communication about disease-specific information;**

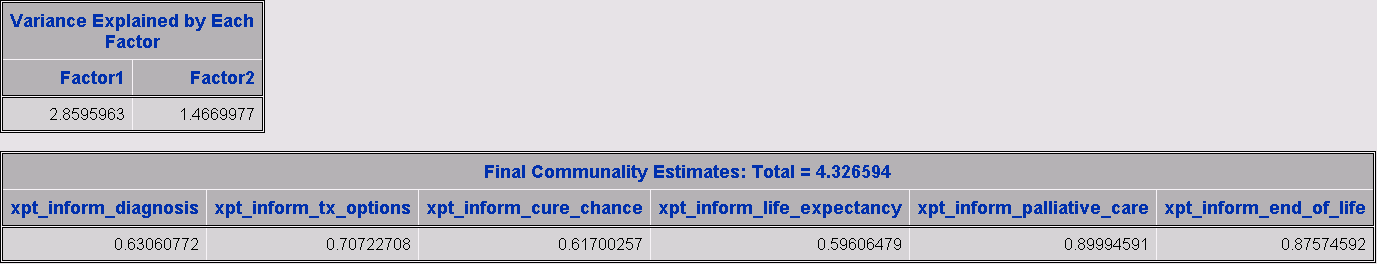
sumptinfo= sum(xpt\_inform\_diagnosis, xpt\_inform\_tx\_options, xpt\_inform\_cure\_chance, xpt\_inform\_life\_expectancy, xpt\_inform\_palliative\_care, xpt\_inform\_end\_of\_life);











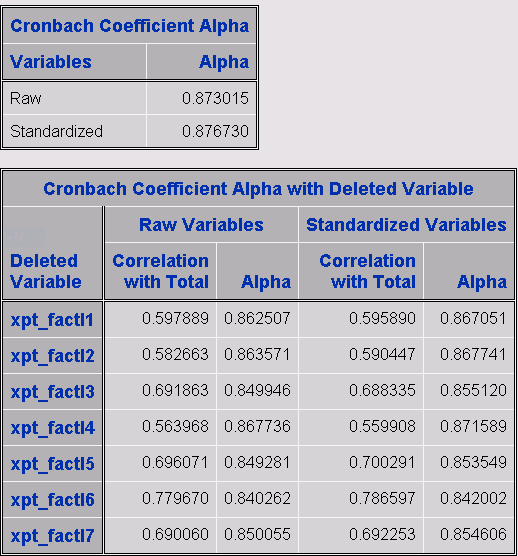
**\* Functional Assessment of Cancer Therapy – Lung (FACT-L) – Version 4;**

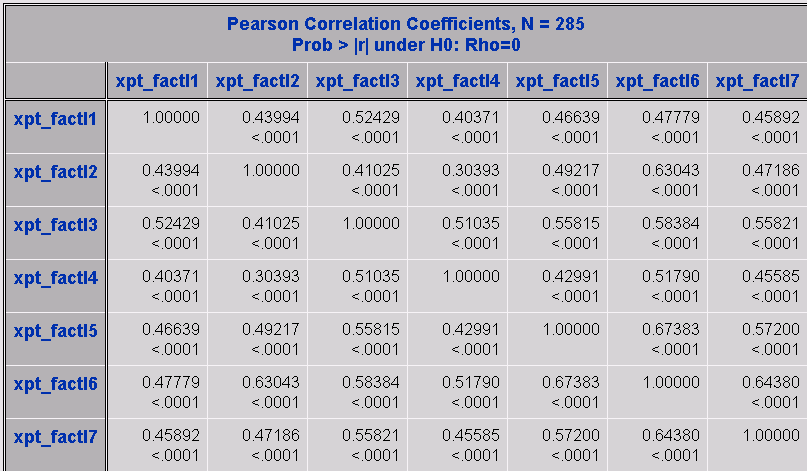
\*create the 5 sub-scales;

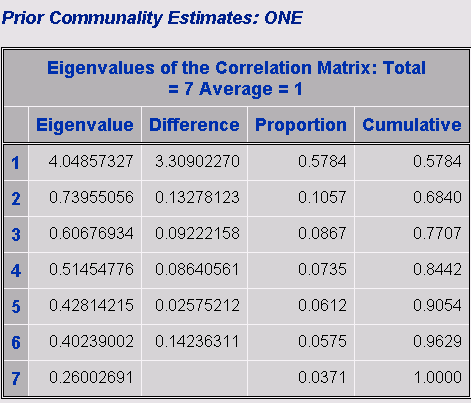
**\* Physical well-being (PWB) sub-scale;**

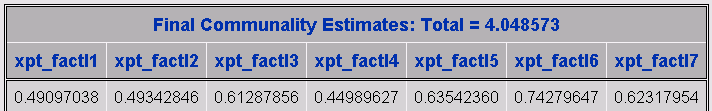
PWB= sum(xpt\_factl1, xpt\_factl2, xpt\_factl3, xpt\_factl4, xpt\_factl5, xpt\_factl6, xpt\_factl7);

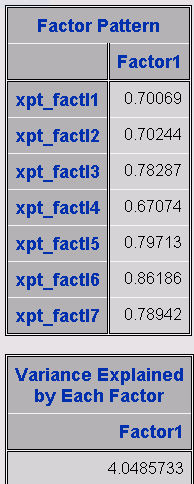
\* Social well-being (SWB) sub-scale;











**\* Social well-being (SWB) sub-scale;**

SWB= sum(pt\_factl8, pt\_factl9, pt\_factl10, pt\_factl11, pt\_factl12, pt\_factl13, pt\_factl14);

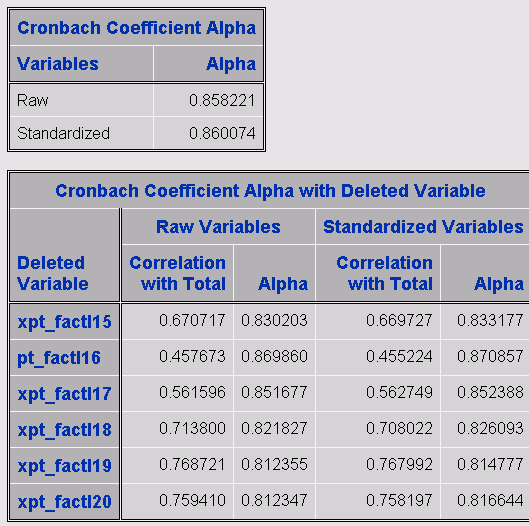
\* Emotional well-being (EWB) sub-scale;

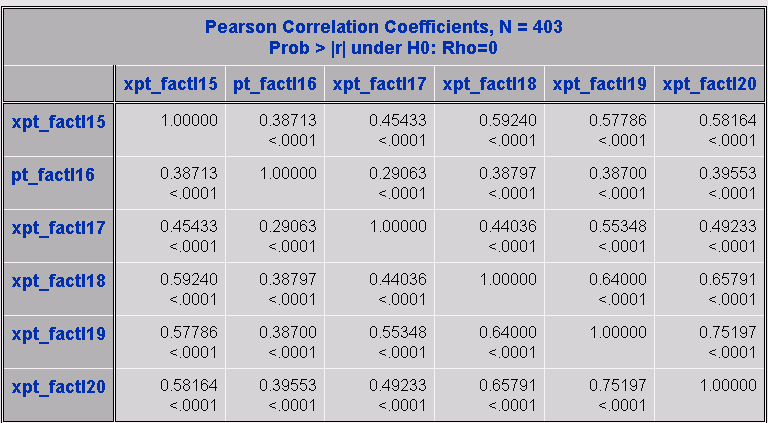
\* missing observations.

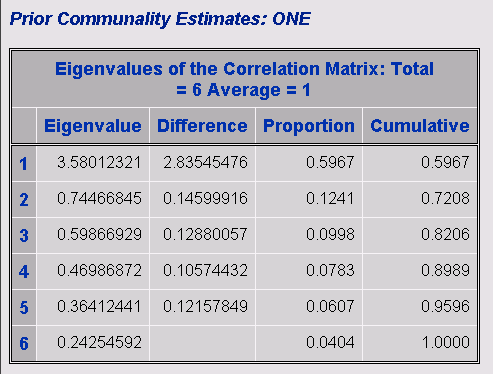
**pt\_factl12 and pt\_factl13 all missing values , pt\_factl14 has missing values**

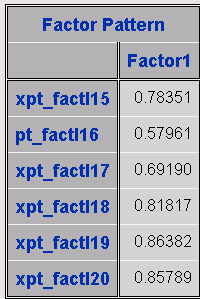
**\* Emotional well-being (EWB) sub-scale;**

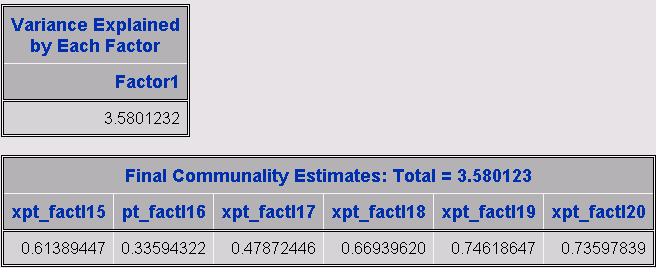
EWB= sum(xpt\_factl15, pt\_factl16, xpt\_factl17, xpt\_factl18, xpt\_factl19, xpt\_factl20);

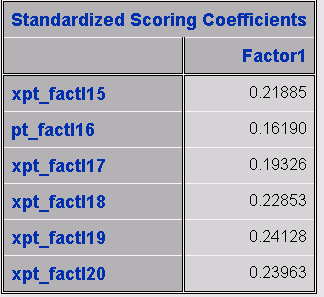






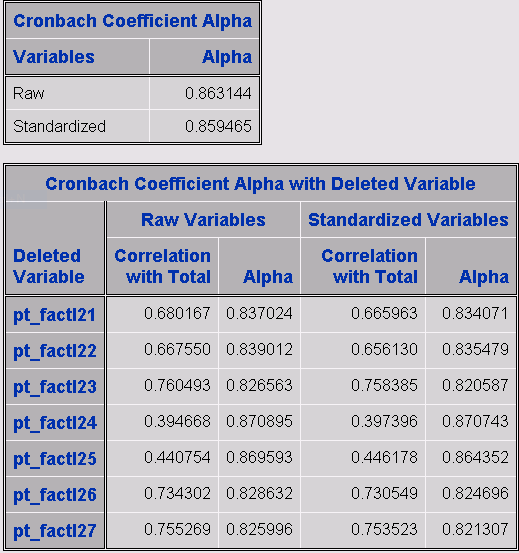


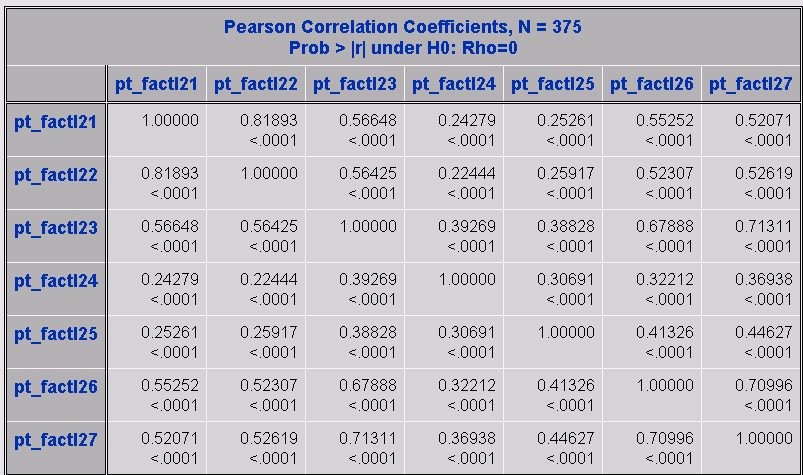


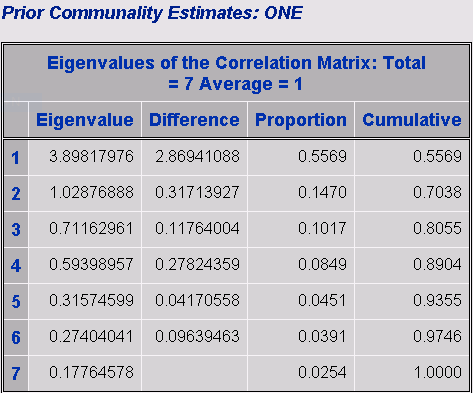


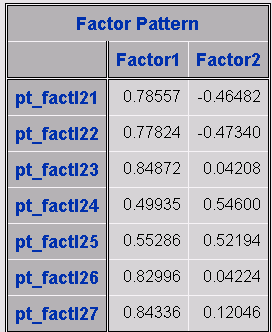
**\* Functional well-being (FWB) sub-scale;**

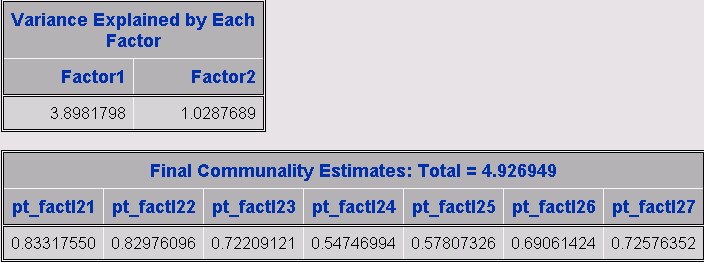
FWB= sum(pt\_factl21, pt\_factl22, pt\_factl23, pt\_factl24, pt\_factl25, pt\_factl26, pt\_factl27);

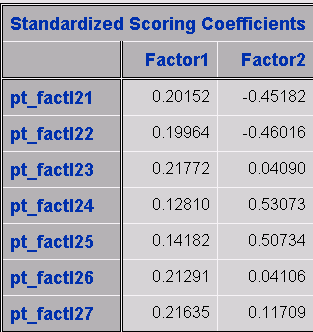






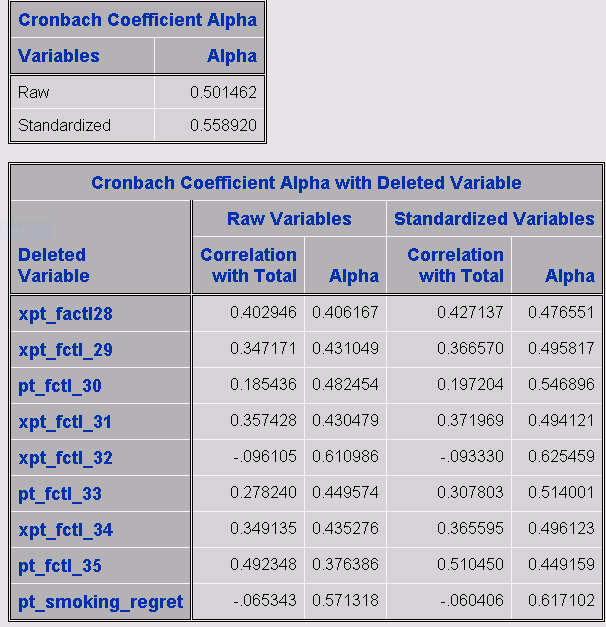


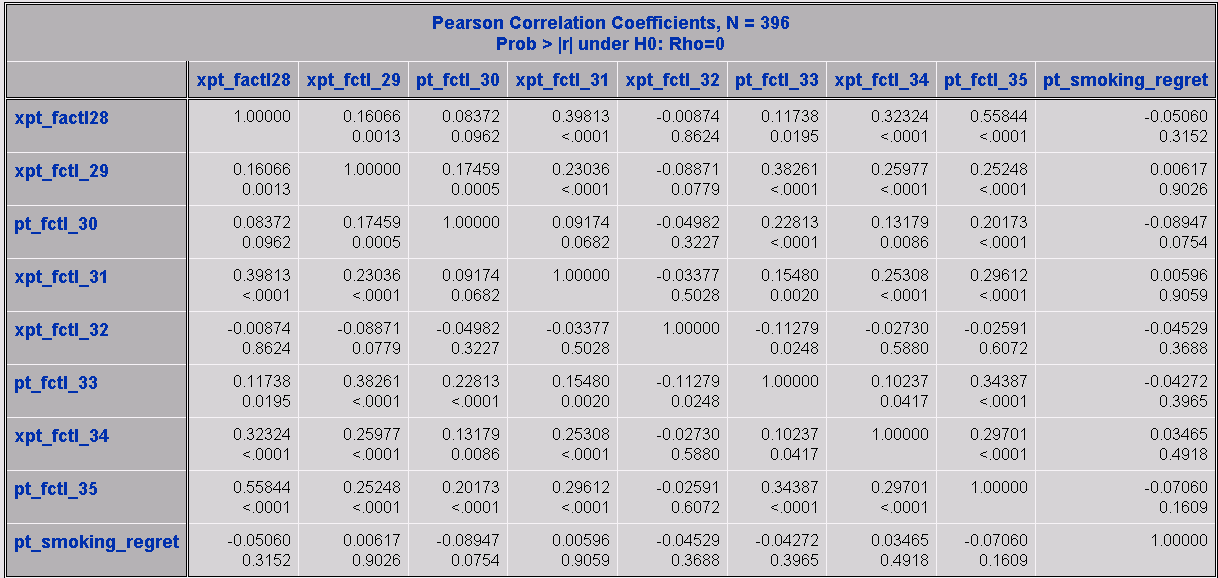


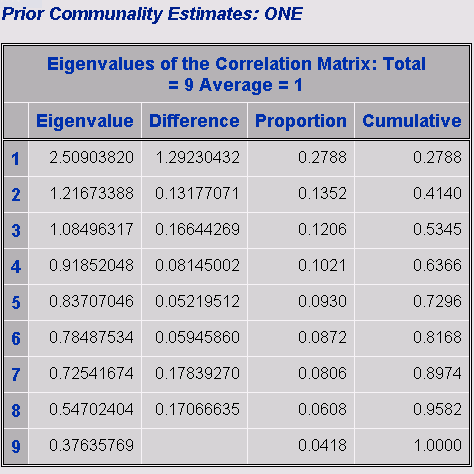


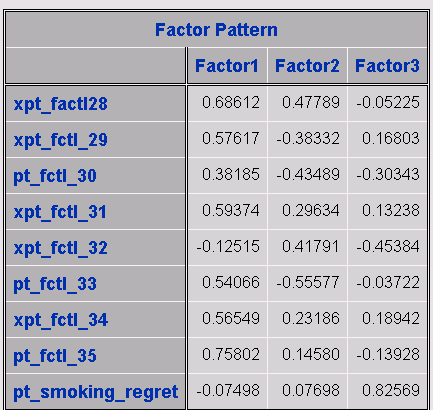
\* **Lung cancer scale (LCS) sub-scale;**

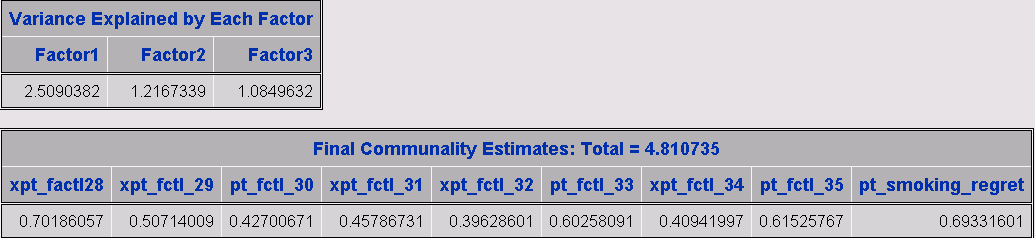
LCS= sum(xpt\_factl28, xpt\_fctl\_29, pt\_fctl\_30, xpt\_fctl\_31, xpt\_fctl\_32, pt\_fctl\_33, xpt\_fctl\_34, pt\_fctl\_35, pt\_smoking\_regret);

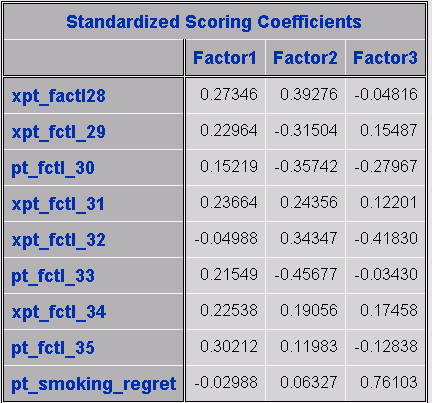




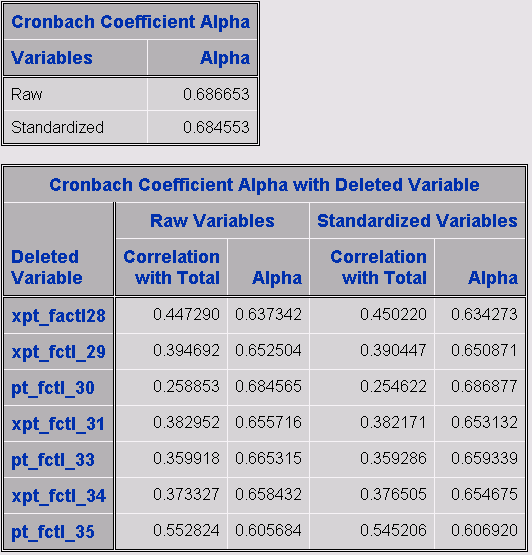


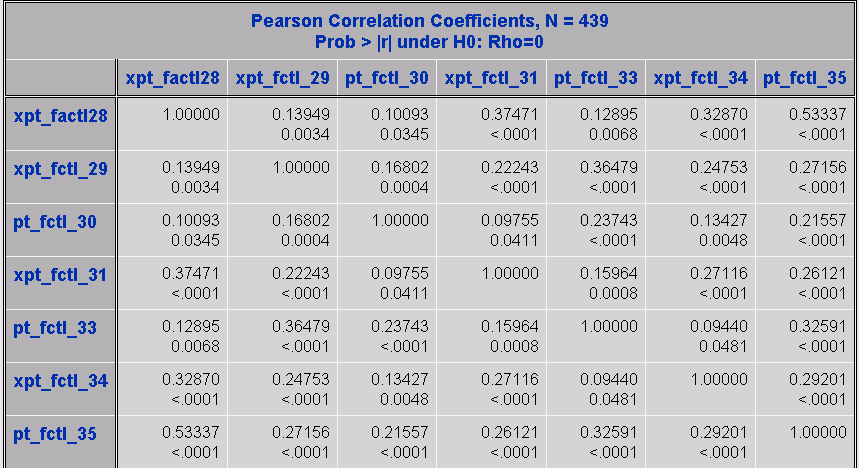


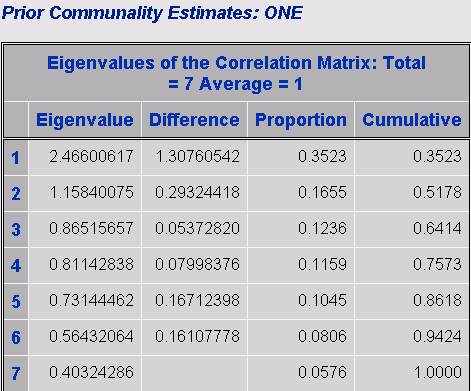


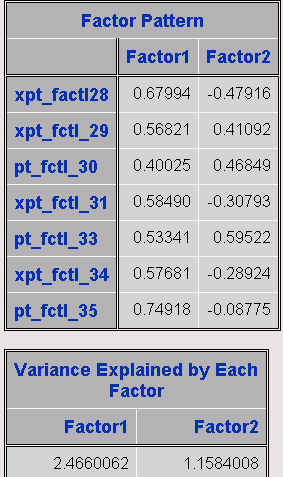


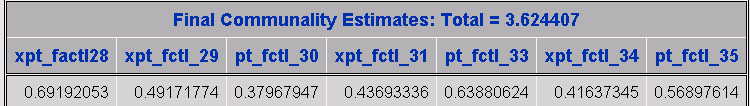
The Cronbach coefficient alpha is very much less 0.7 which indicates this variable is very poor. Removing the two items with negative correlations (xpt\_fctl\_32 and pt\_smoking\_regret) increases the Cronbach coefficient alpha to nearly 0.7 which is still questionable.

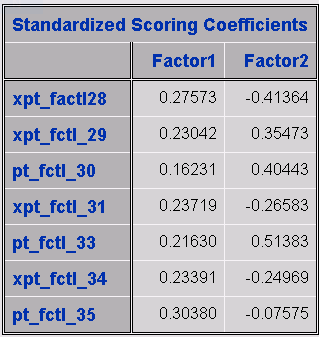












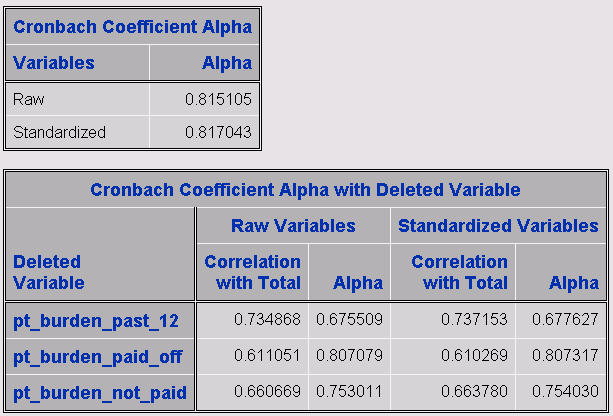
**\* Hospital Anxiety and Depression Scale (HADS; Zigmond & Snaith, 1983)**

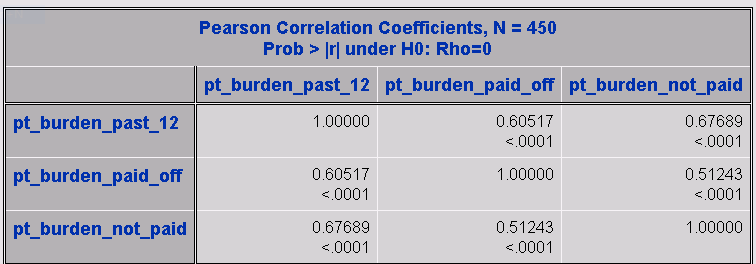
HADS\_d has all observations missing.

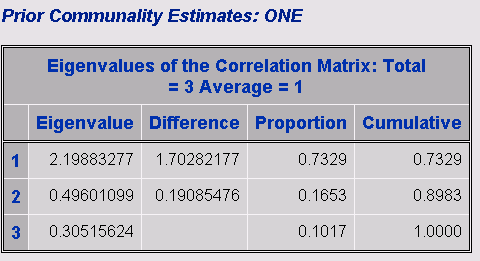
**\* Financial burden of medical care;**

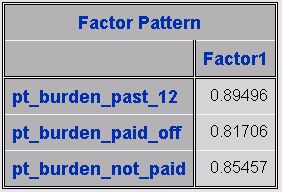
Financialburden= sum(pt\_burden\_past\_12, pt\_burden\_paid\_off, pt\_burden\_not\_paid);

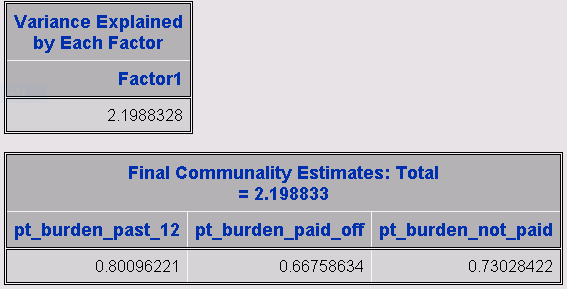
End;

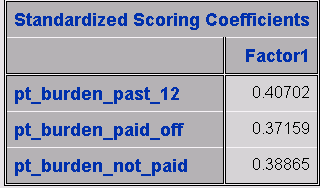






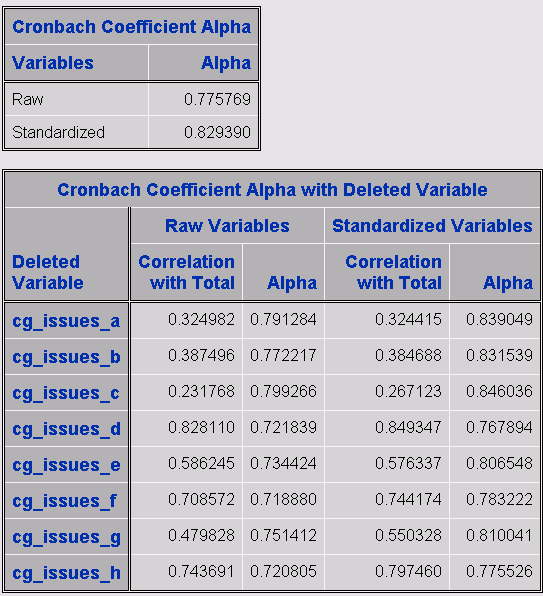


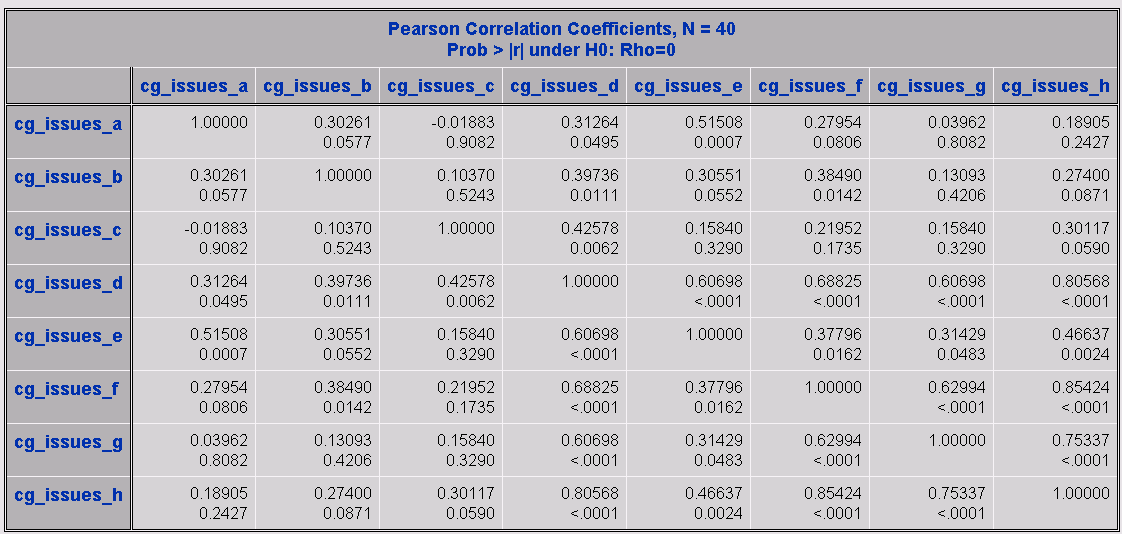


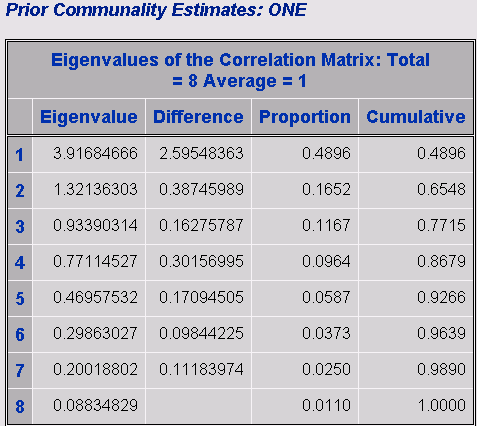


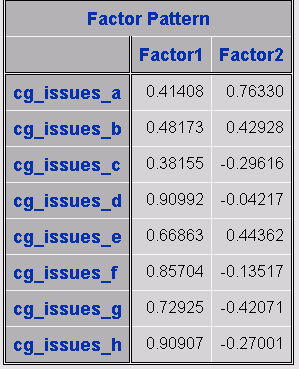
**\* Barriers to completing treatment plan (pp 3-4 caregiver survey);**

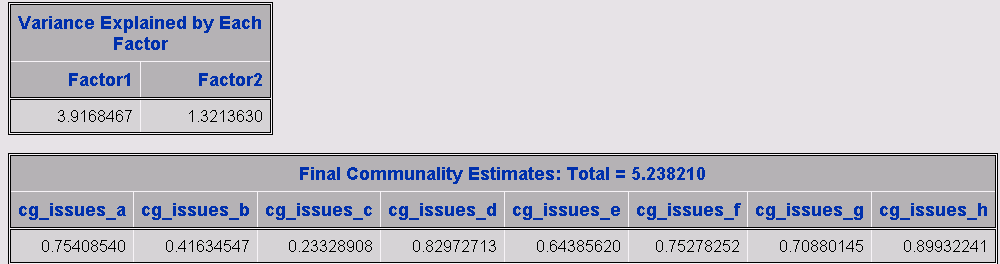
sumcgbarriers= sum(cg\_issues\_a, cg\_issues\_b, cg\_issues\_c, cg\_issues\_d, cg\_issues\_e, cg\_issues\_f, cg\_issues\_g, cg\_issues\_h);

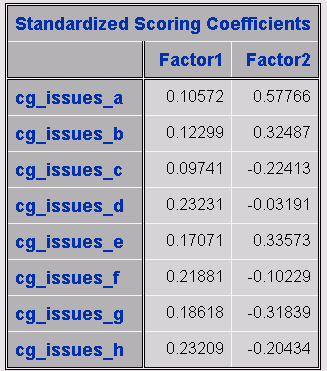












**\* Communication about disease-specific information (p 4 caregiver survey);**

sumcginfo= sum(xcg\_inform\_diagnosis, xcg\_inform\_tx\_options, xcg\_inform\_cure\_chance, xcg\_inform\_life\_expectancy,

xcg\_inform\_palliative\_care, xcg\_inform\_end\_of\_life)

missing observations

**\* Satisfaction with quality of care from various team members (p. 4 patient survey);**

\* create sum score for overall satisfaction with quality of care;

sumcgsatqc= sum(xsat\_caregiver\_pc, xsat\_caregiver\_onc, xsat\_caregiver\_pulmo, xsat\_caregiver\_surg, xsat\_caregiver\_nurse, xsat\_caregiver\_nav, xsat\_caregiver\_other\_staff, xsat\_caregiver\_whole);

missing observations

**\* CAHPS items – Physician communication – 5 item version (p. 5 caregiver survey)**

\*sumcgphyscomm5= sum(xcaregiver\_pt\_1, xcaregiver\_pt\_2 xcaregiver\_pt\_3,

xcaregiver\_pt\_4, xcaregiver\_pt\_5)

too many missing observations

**\*\* CAHPS items – Physician communication – 7 item version (p. 5 patient survey)**

sumcgphyscomm7= sum(xcaregiver\_pt\_1, xcaregiver\_pt\_2 xcaregiver\_pt\_3,

xcaregiver\_pt\_4, xcaregiver\_pt\_5, xcaregiver\_pt\_6, xcaregiver\_pt\_7)

too many missing observations

**\* We created a 6-item nurse communication measure based on the CAHPS Physician Communication items (pp 5-6 caregiver survey);**

sumcgnursecomm= sum(xcg\_careteam\_8, xcg\_careteam\_9, xcg\_careteam\_10, xcg\_careteam\_11, xcg\_careteam\_12, xcg\_careteam\_13);

missing observations

**Items about satisfaction with care from the team as a whole (pp 10-11 caregiver survey)**

sumcgteamsat= sum(xcaregiver\_often\_14, xcaregiver\_often\_15, xcaregiver\_often\_16

sumcgteamsat= sum(xcaregiver\_often\_14, xcaregiver\_often\_15, xcaregiver\_often\_162

missing observations

**Caregiver Burden: 14-item Brief Assessment Scale for Caregivers (BASC) (pp 6-7 caregiver survey)**

basc= sum(xqol\_caregiver\_worried, xqol\_caregiver\_illness, xqol\_caregiver\_upset,

xqol\_caregiver\_overwhelmed, xqol\_caregiver\_seeing, xqol\_caregiver\_decisions,

xqol\_caregiver\_hosp, xqol\_caregiver\_procedures, xqol\_caregiver\_change, xqol\_caregiver\_family, xqol\_caregiver\_drawn, xqol\_caregiver\_meaning, xqol\_caregiver\_mem, xqol\_caregiver\_feel);

missing observations

**Hospital Anxiety and Depression Scale (HADS; Zigmond & Snaith, 1983);**

**\* p 7-8 caregiver survey;**

cgHADS\_d= sum(cghads2, cghads4, cghads6, cghads8, cghads10, cghads12, cghads14); \*depression;

**Hospital Anxiety and Depression Scale (HADS; Zigmond & Snaith, 1983);**

**\* p 7-8 caregiver survey;**

cgHADS\_a= sum(cghads1, cghads3, cghads5, cghads7, cghads9, cghads11, cghads13); \*anxiety;

missing observations

\*------------------------------------------------------------------------------------------------------------------\*;

/\*

Hospital Anxiety and Depression Scale ;

\*create HADS sub-scales;

\*/;

\*------------------------------------------------------------------------------------------------------------------\*;

HADS\_d= sum(hads2, hads4, hads6, hads8, hads10, hads12, hads14); depression;

missing observations

HADS\_a= sum(hads1, hads3, hads5, hads7, hads9, hads11, hads13); \*anxiety;

missing observations