



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
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Faculty of Health Sciences
School of Health Care Sciences
Department of Nursing Science

**FACTORS ASSOCIATED WITH MISSED APPOINTMENTS AMONG ADULTS ON ANTI-RETROVIRAL THERAPY IN THE
UTHUKELA DISTRICT IN KWAZULU-NATAL, SOUTH AFRICA**

DATASET

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DESCRIPTIVE STATISTICS

Demographic profile of participants

Demographic factor	Category	Frequency	Percentage
Age	18-35	45	43%
	36-50	45	43%
	50+	14	14%
Gender	Female	63	61%
	Male	41	39%
Education level	No education	1	1%
	Primary education	28	27%
	Secondary education	67	64%
	Tertiary education	8	8%
Employment status	Unemployed	60	58%
	Part-time	12	12%
	Full-time	8	8%
	Self-employed	24	23%
If employed, ability to get time off	Yes	13	12%
	No	30	29%
	N/A	61	59%
Years on ARV treatment	1-2	14	13%
	3-5	28	27%
	6-10	35	34%
	10+	27	26%
Relationship status	Single	23	22%
	In a relationship	55	53%
	In casual relationships	15	14%
	Living together	5	5%
	Married	6	6%
HIV status disclosure	Yes	88	85%
	No	16	15%

Relationship between demographic profile and missed appointments

Table below presents the results of the Chi-square test that was performed on the demographic factors. The highlighted p-values indicate a statistical significance of less than 5% (p-value \leq 0.05).

Demographic factors associated with missed appointments

Demographic factor	p-value	Interpretation of association with missing appointments
Age group	0.174	Not associated
Gender	0.009	Associated
Highest education level	0.531	Not associated
Employment status	0.007	Associated
Years on ARVs	0.186	Not associated
Relationship status	0.334	Not associated
HIV status disclosure	0.030	Associated

Gender segregation of participants

Group Gender	Female	Male	Total	Chi-square p-value
Missed group	25 (48%)	27 (52%)	52 (100%)	0.009
Adherent group	38 (73%)	14 (27%)	52 (100%)	
Total	63 (61%)	41 (39%)	104 (100%)	

Employment status of participants

Group Employment status	Unemployed	Part-time	Full-time	Self-employed	Total	Chi-square p-value
Missed group	22 (42%)	10 (19%)	4 (8%)	16 (31%)	52 (100%)	0.007
Adherent group	38 (73%)	2 (4%)	4 (8%)	8 (15%)	52 (100%)	
Total	60 (58%)	12 (12%)	8 (8%)	24 (23%)	104 (100%)	

Participants' ability to get time off, if employed

Group Time off from work	Yes	No	Total
Missed group	3 (10%)	27 (90%)	30 (100%)
Adherent group	10 (77%)	3 (23%)	13 (100%)
Total	13 (30%)	30 (70%)	43 (100%)

Participants' HIV Status Disclosure

Group Status disclosure	Yes	No	Total	Chi-square p-value
Missed group	40 (77%)	12 (23%)	52 (100%)	0.030
Adherent group	48 (92%)	4 (8%)	52 (100%)	
Total	88 (85%)	16 (15%)	104 (100%)	

Cross-tabulation: Association between demographic characteristics with patient-related and healthcare-related factors

The following analysis focuses solely on factors that demonstrate significant associations with demographic characteristics, as determined by the Chi-square test of independence. In cases where more than 20% of the cells had expected counts below 5, a Likelihood test was employed. Additionally, for 2x2 contingency tables and smaller sample sizes, a Fisher's exact test was utilised.

a) Gender

The results below show the factors that are associated with gender.

Comparison of gender and use of traditional medicine

		Gender		Total	P-value
		Female	Male		
Have you used traditional medicine before?	Agree	24	27	51	0,004
	Disagree	39	13	52	
Total		63	40	103	

b) Employment status

The results below show the factors that are associated with employment status.

Comparison of employment status and the use of traditional medicine

		Employment status		Total	P-value
		Employed	Unemployed		
Have you used traditional medicines before?	Agree	28	23	51	0,007
	Disagree	15	37	52	
Total		43	60	103	

Comparison of employment status and the lack of transport fare to the clinic

		Employment status		Total	P-value
		Employed	Unemployed		
Have you had a lack of transport fare to the clinic?	Agree	5	17	22	0,036
	Disagree	39	43	82	
Total		44	60	104	

c) Status disclosure

The results below show the factors that are associated with HIV status disclosure.

Comparison between status disclosure and feeling stigmatised, discriminated or isolated by loved ones

		Have you disclosed your status to your partner(s) or family?		Total	P-value
		Yes	No		
Have you ever felt stigmatised, discriminated or isolated by your loved ones because of your HIV status?	Agree	22	9	31	0,018
	Disagree	66	7	73	
	Total	88	16	104	

Comparison between status disclosure and feelings of stigma, discrimination or isolation contributing to missing appointments

		Have you disclosed your status to your partner(s) or family?		Total	P-value
		Yes	No		
Has the stigma, discrimination or isolation ever contributed to you not going to the clinic on your clinic date?	Agree	11	8	19	<0,001
	Disagree	45	2	47	
Total		56	10	66	

INFERENCE STATISTICS

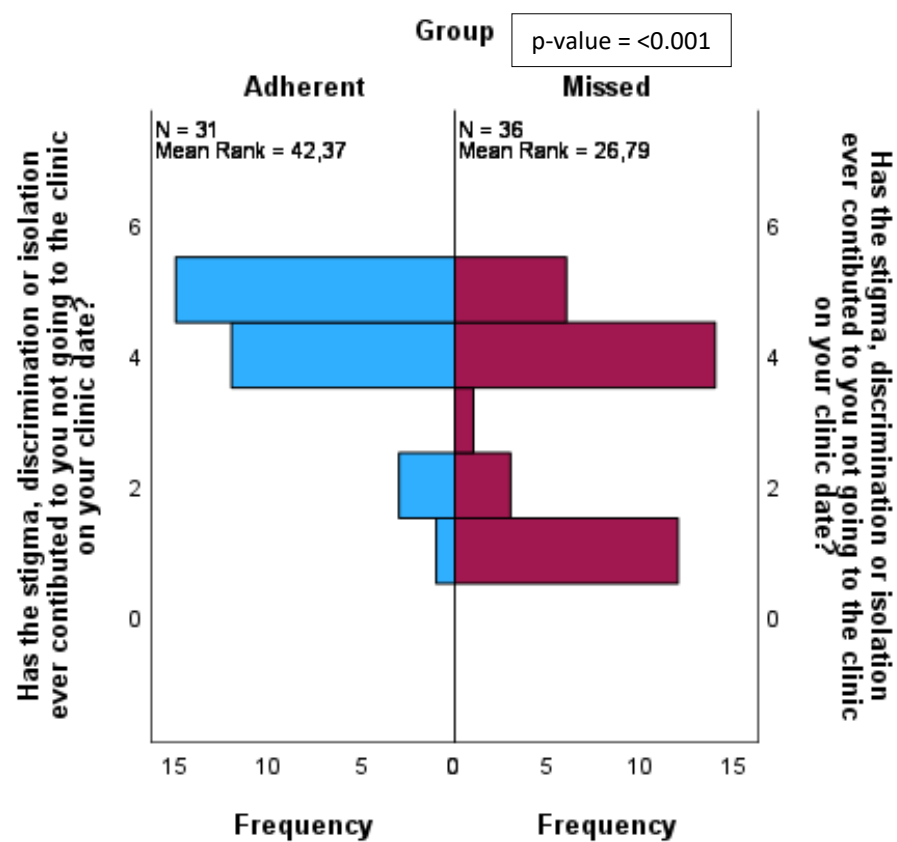
Patient-related factors to missed clinic appointments

Patient-related factors		Likert scale					Mann-Whitney U test				p-value
		Strongly agree	Agree	Not sure	Disagree	Strongly disagree	Adherent N	Mean	Missed N	Mean	
If you have disclosed to your partner(s) or family, does it contribute to you not going to the clinic?	Freq	2	2	0	36	49	49	46.84	40	42.75	0.397
	%	2.2	2.2	0.0	40.4	55.1					
If you have not disclosed to your partner(s) or family, does non-disclosure contribute to you not going to the clinic?	Freq	3	7	0	4	1	3	11.50	12	7.13	0,136
	%	20.0	46.7	0.0	26.7	6.7					
Have you ever felt stigmatised, discriminated or isolated by your loved ones because of your HIV status?	Freq	22	9	0	40	33	52	55.16	52	49.84	0,343
	%	21.2	8.7	0.0	38.5	31.7					
Has the stigma, discrimination or isolation ever contributed to you not going to the clinic on your clinic date?	Freq	13	6	1	26	21	31	42.37	36	26.79	<0.001
	%	19.4	9.0	1.5	38.8	31.3					

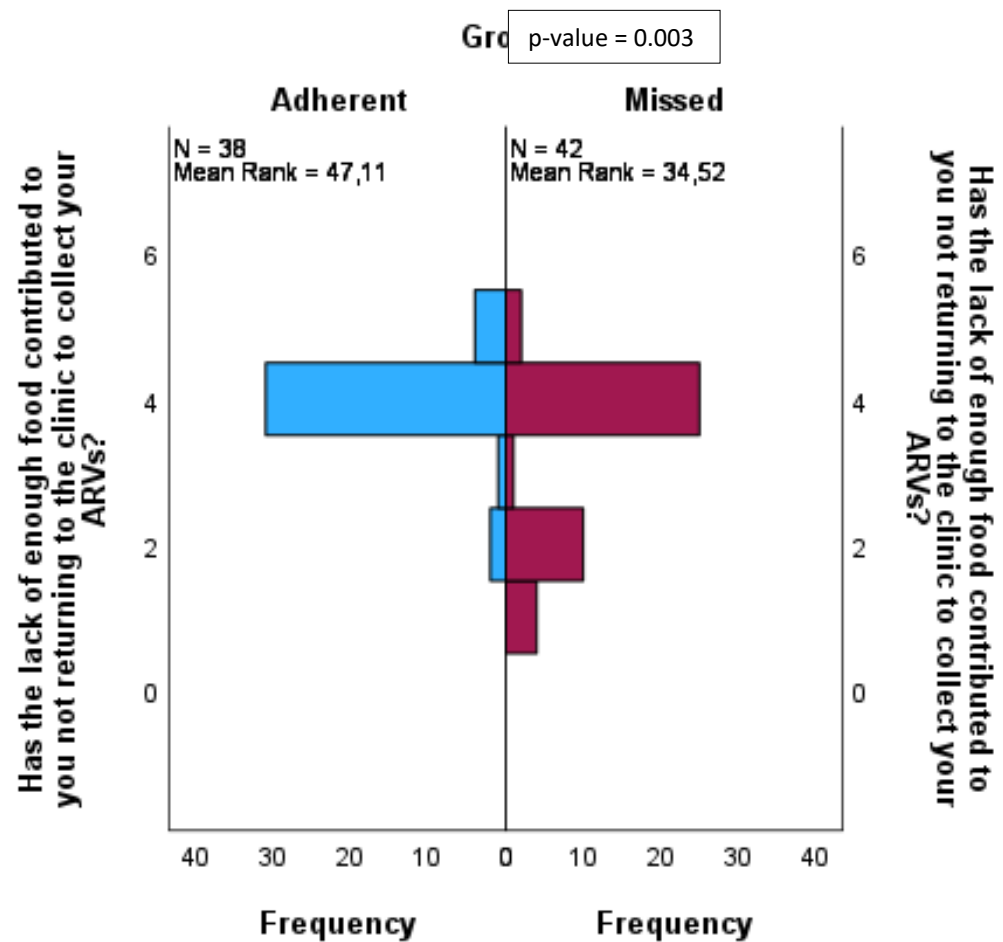
Do you find this clinic convenient for HIV care needs/services?	Freq	44	52	0	4	4					
	%	42.3	50.0	0.0	3.8	3.8	52	53.50	52	51.50	0.705
Are you satisfied with the staff in the clinic?	Freq	52	47	2	1	2					
	%	50.0	45.2	1.9	1.0	1.9	52	50.29	52	54.71	0.398
Has the lack of proper nutrition and enough food contributed to you not returning to the clinic to collect your ARVs?	Freq	4	12	2	56	6					
	%	5.0	15.0	2.5	70.0	7.5	38	47.11	42	34.52	0.003
Have you ever experienced side effects from taking ARVs?	Freq	6	13	0	56	29					
	%	5.8	12.5	0.0	53.8	27.9	52	57.08	52	47.92	0.088
Have the side effects of the drugs contributed to you not returning to the clinic to collect your ARVs?	Freq	4	9	0	49	13					
	%	5.3	12.0	0.0	65.3	17.3	36	43.17	39	33.23	0.020
Have you ever been mishandled or mistreated by the staff at the clinic?	Freq	5	4	2	57	36					
	%	4.8	3.8	1.9	54.8	34.6	52	59.83	52	45.17	0.005
Has mishandling by the clinic staff contributed to you not returning to the clinic to collect your ARVs?	Freq	4	3	1	53	7					
	%	5.9	4.4	1.5	77.9	10.3	27	39.35	41	31.30	0.023
Do you feel you have received enough counselling regarding your ARVs?	Freq	51	42	8	2	1					
	%	49.0	40.4	7.7	1.9	1.0	52	47.75	52	57.25	0.075
Has the lack of enough counselling regarding your ARVs ever contributed to you not returning to the clinic to collect your ARVs?	Freq	2	7	3	50	23					
	%	2.4	8.2	3.5	58.8	27.1	33	49.67	52	38.77	0.024
Have you used traditional medicines before?	Freq	22	29	1	23	29					
	%	21.2	27.9	1.0	22.1	27.9	52	58.68	52	46.32	0.031
Have you ever opted for traditional medicine over ARVs?	Freq	3	9	0	36	18					
	%	4.5	13.6	0	54.5	27.3	29	39.19	37	29.04	0.018
Have you had the lack of transport to the clinic?	Freq	11	8	0	40	45					
	%	10.6	7.7	0.0	38.5	43.3	52	61.16	52	43.84	0.002
Has the lack of transport to the clinic ever contributed to you not collecting your ARVs on your clinic date?	Freq	7	10	0	6	39					
	%	11.3	16.1	0.0	9.7	62.9	25	35.98	37	28.47	0.063
	Freq	13	9	0	41	41	52	61.08	52	43.92	0.002

Have you had a lack of transport fare to the clinic?	%	12.5	8.7	0.0	39.4	39.4						
Has the lack of transport fare to the clinic ever contributed to you not collecting your ARVs on your clinic date?	Freq	8	9	0	7	38						
	%	12.9	14.5	0.0	11.3	61.3	24	35.25	38	29.13	0.137	

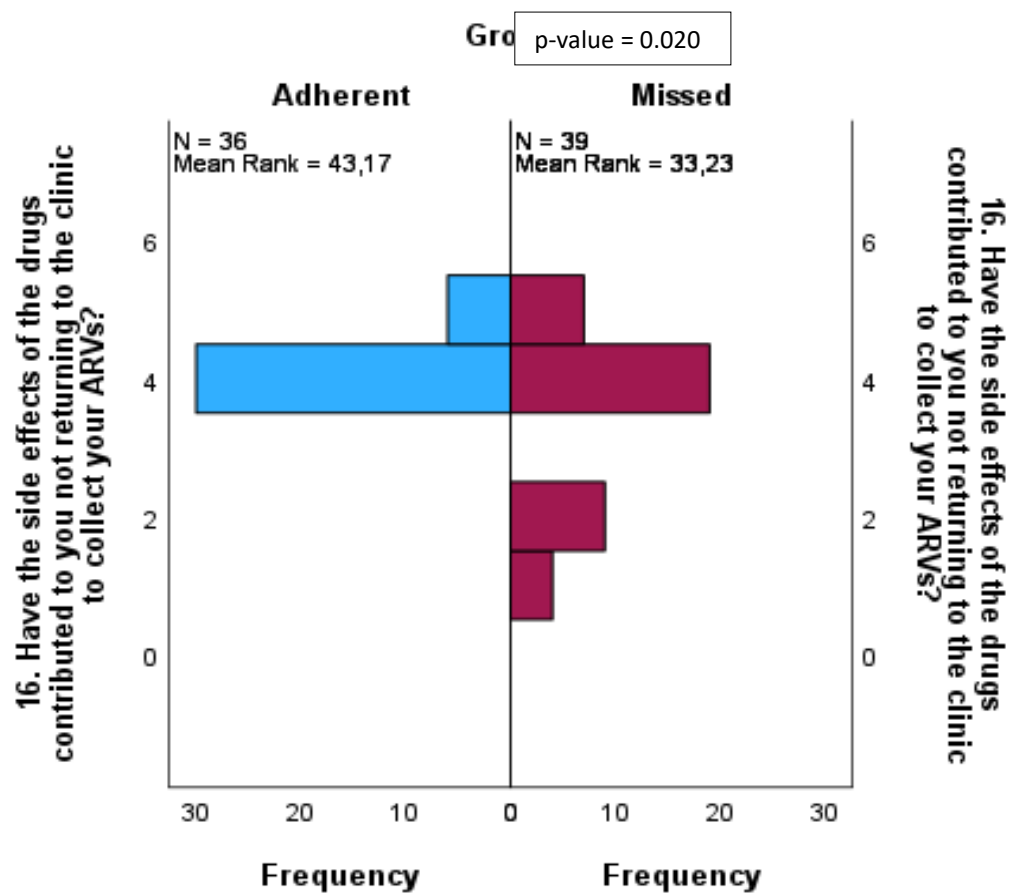
Relationship between stigma, discrimination or isolation and clinic attendance



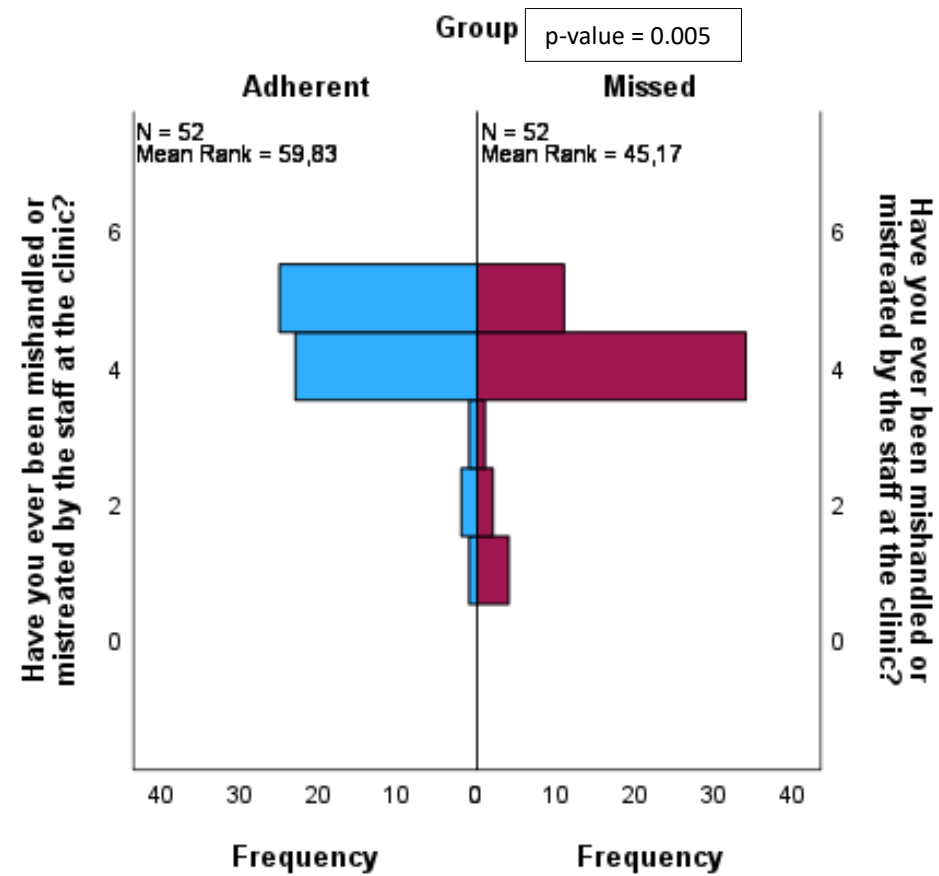
Relationship between the lack of proper nutrition and enough food and clinic attendance



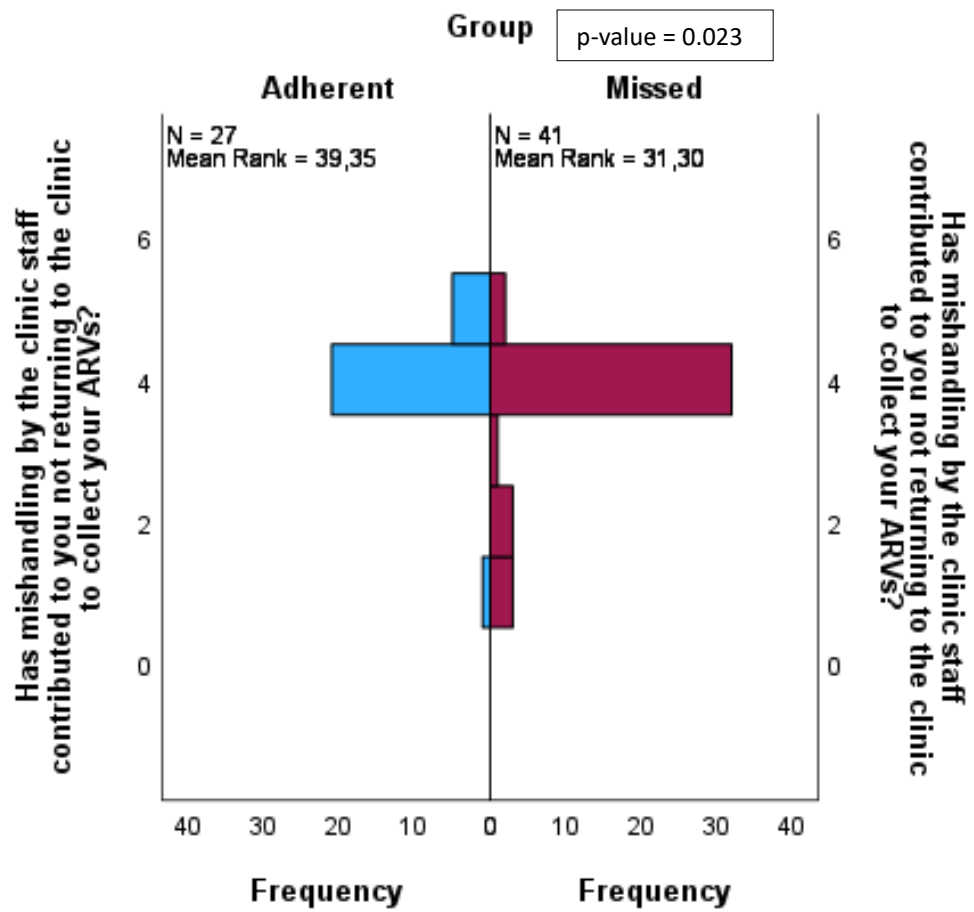
Relationship between the side effects of the drugs and clinic attendance



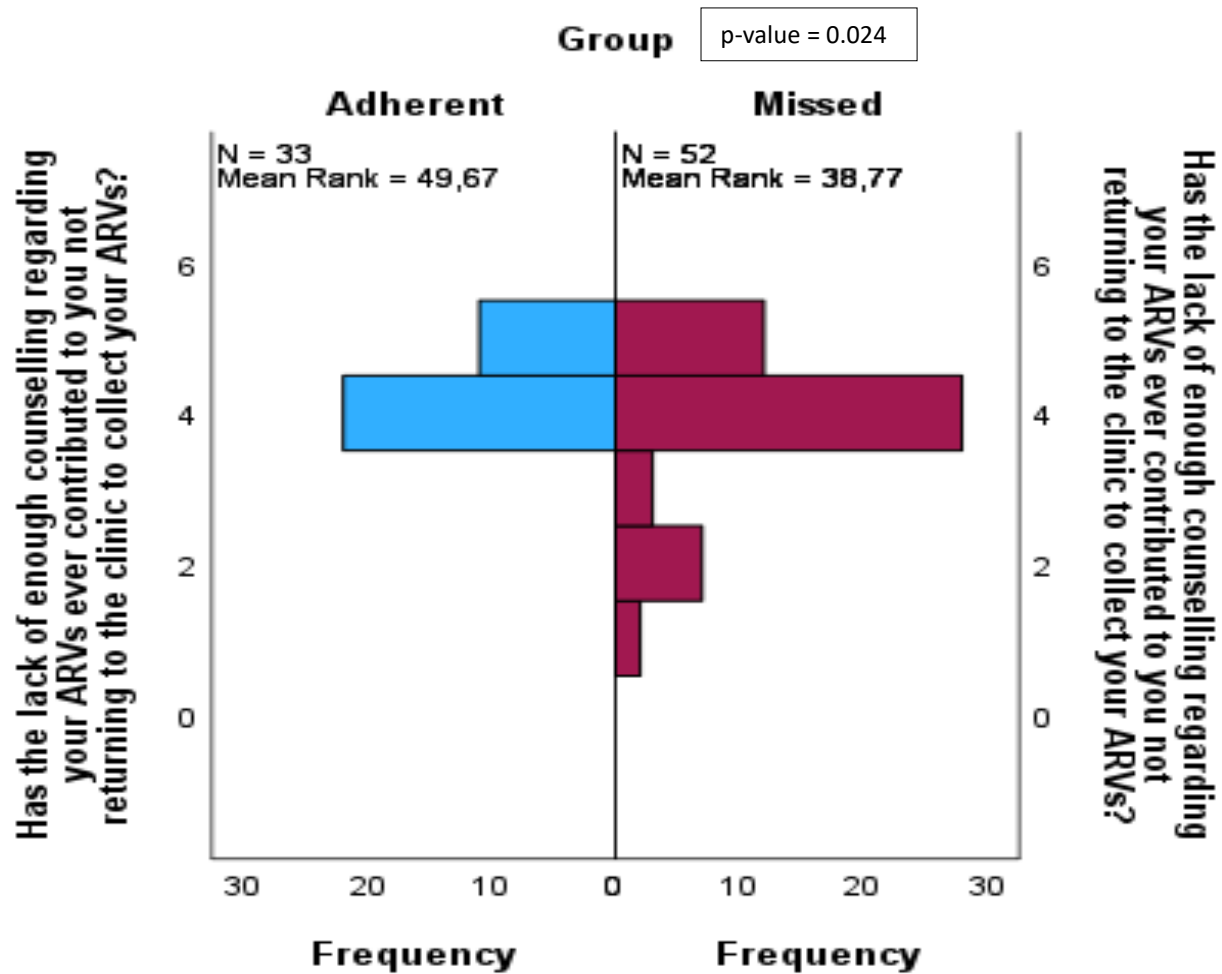
Mishandling and mistreatment by clinic staff



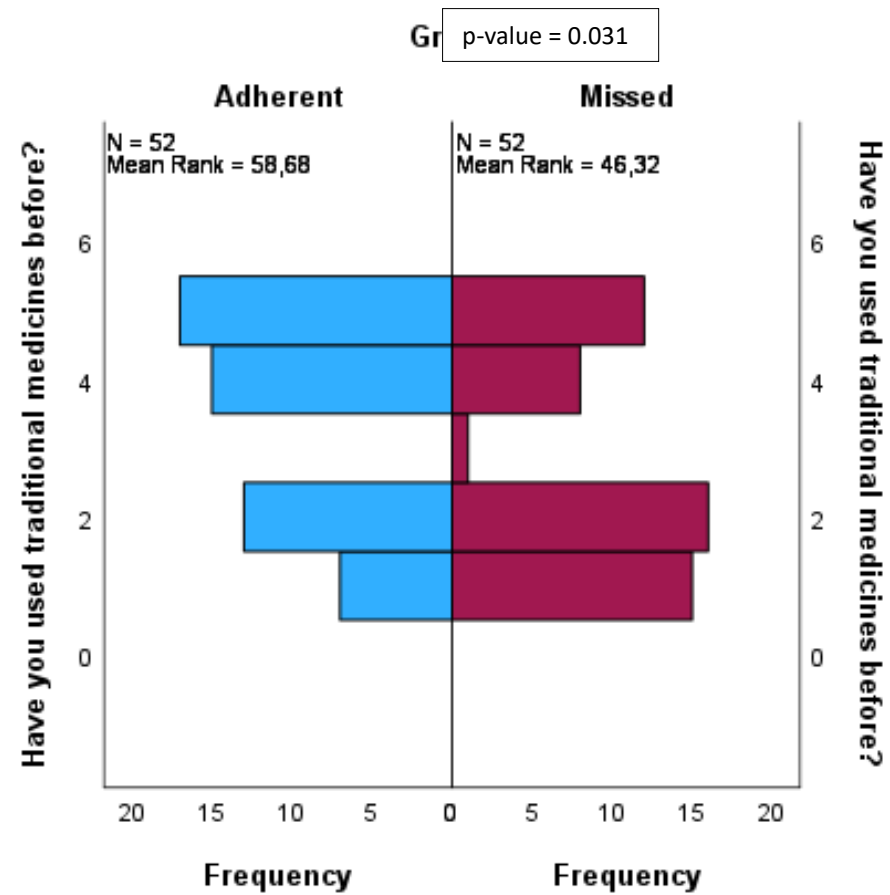
Relationship between mishandling by the clinic staff and clinic attendance



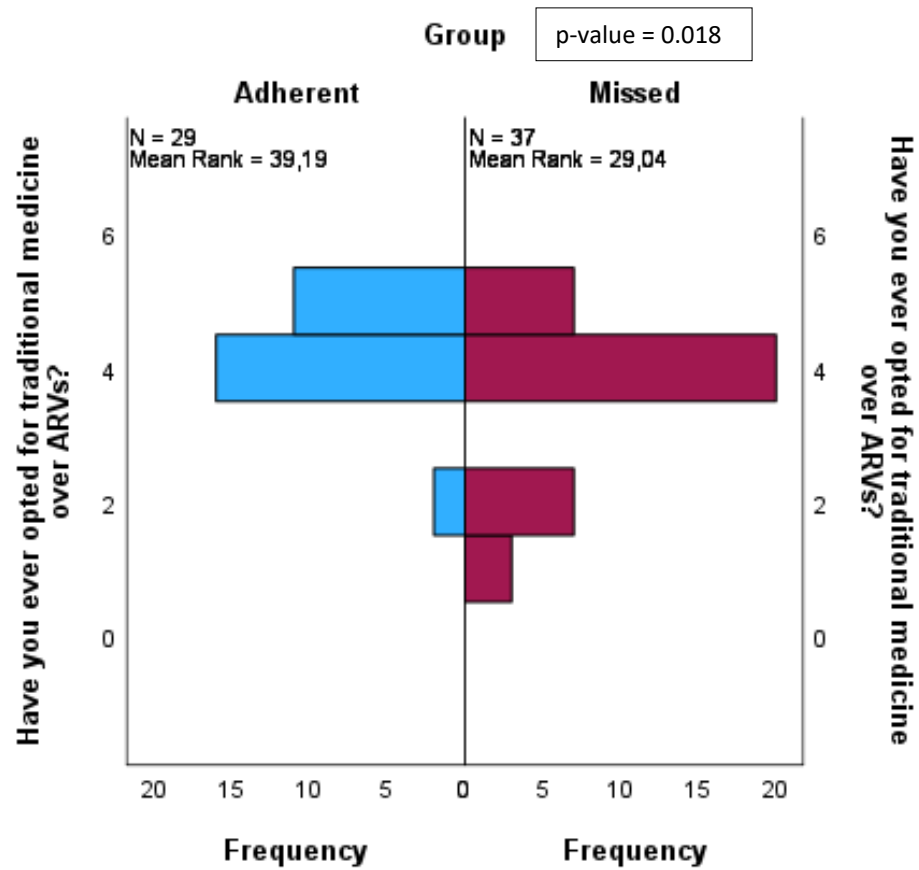
Relationship between the lack of enough counselling regarding ARVs and clinic attendance



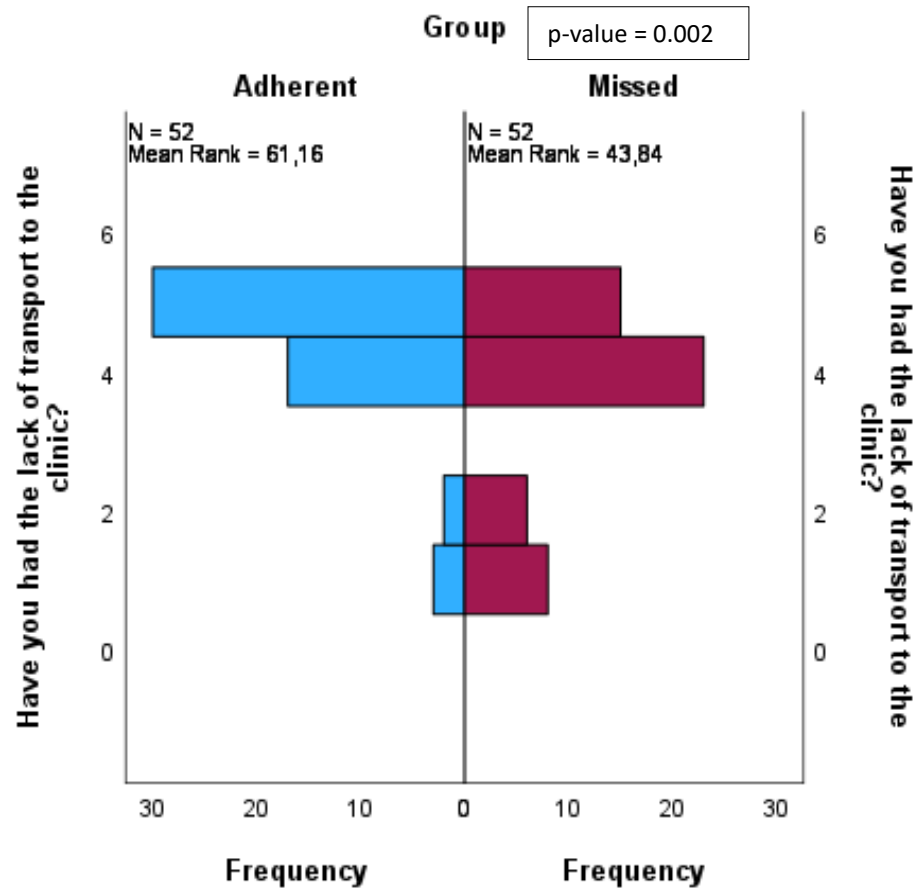
Relationship between the used traditional medicines and clinic attendance



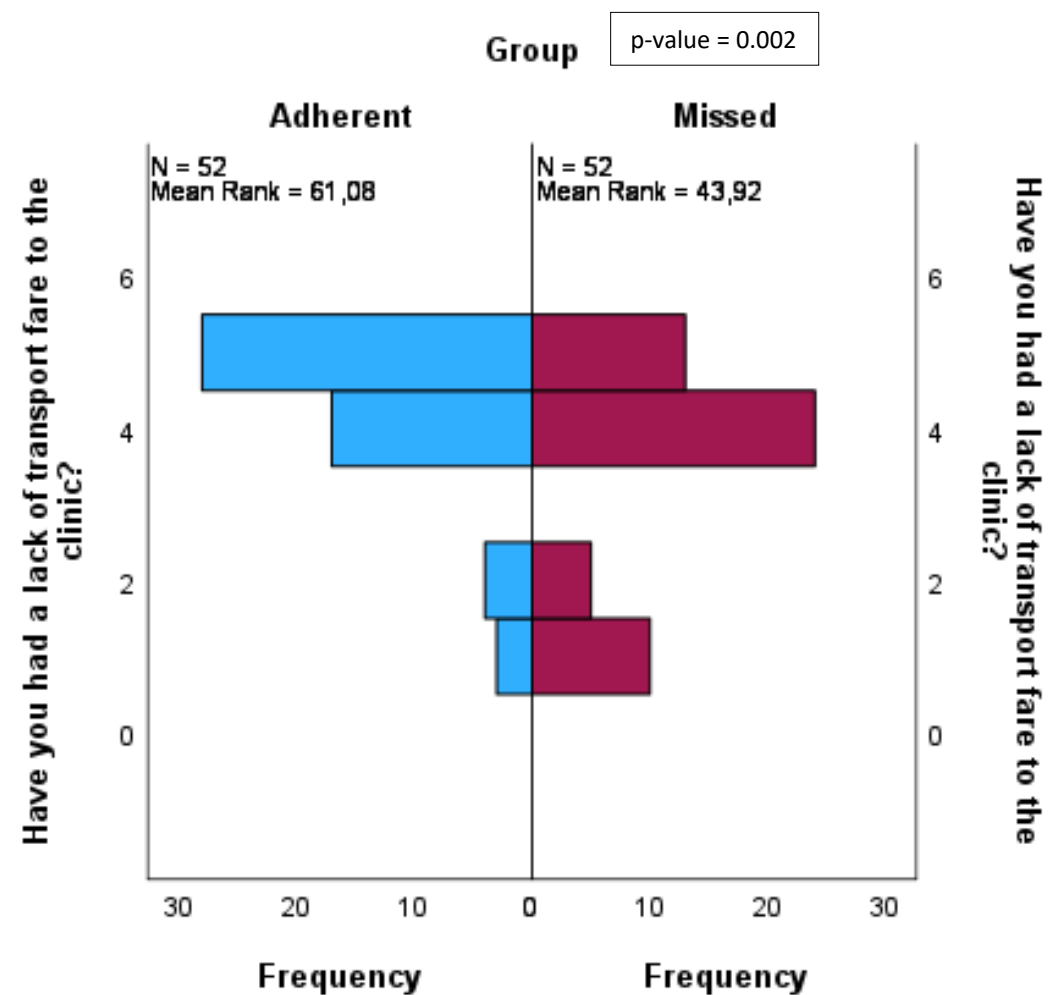
Relationship between opting for traditional medicine over ARVs and clinic attendance



Relationship between the lack of transport and clinic attendance



Relationship between the lack of transport fare and clinic attendance

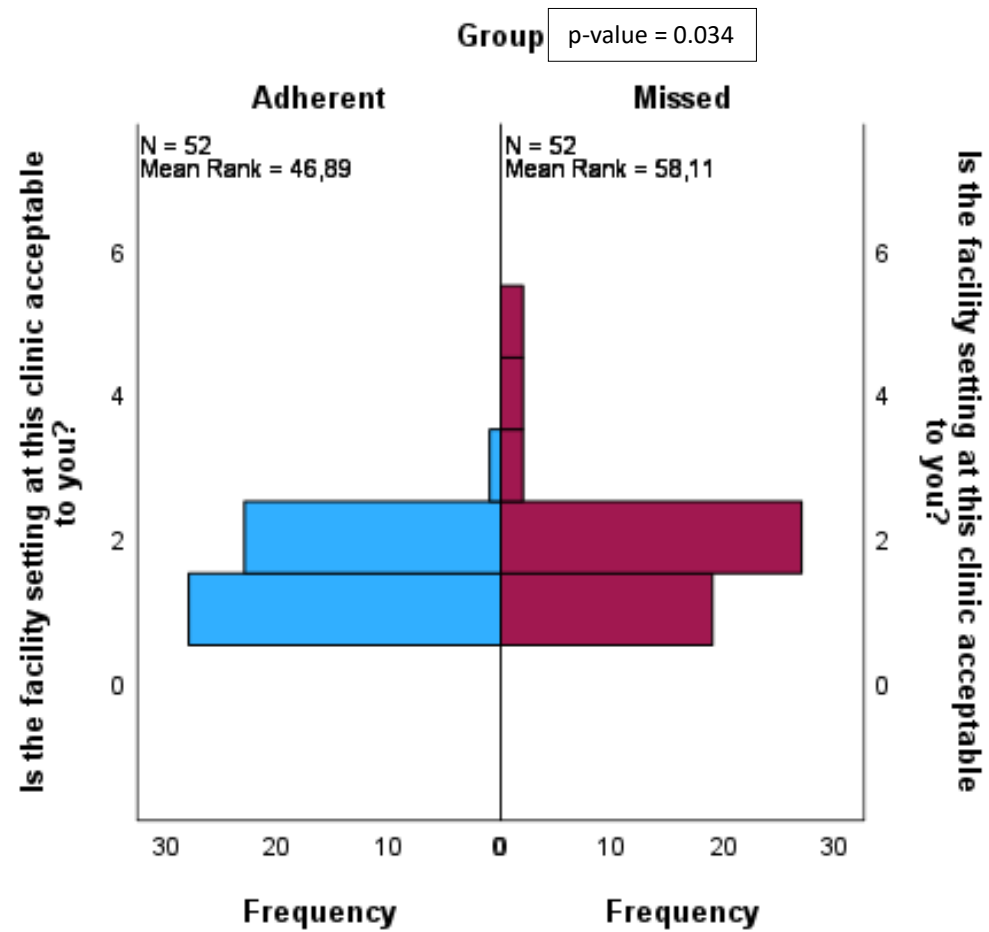


Public health facility setting and health systems-related factors

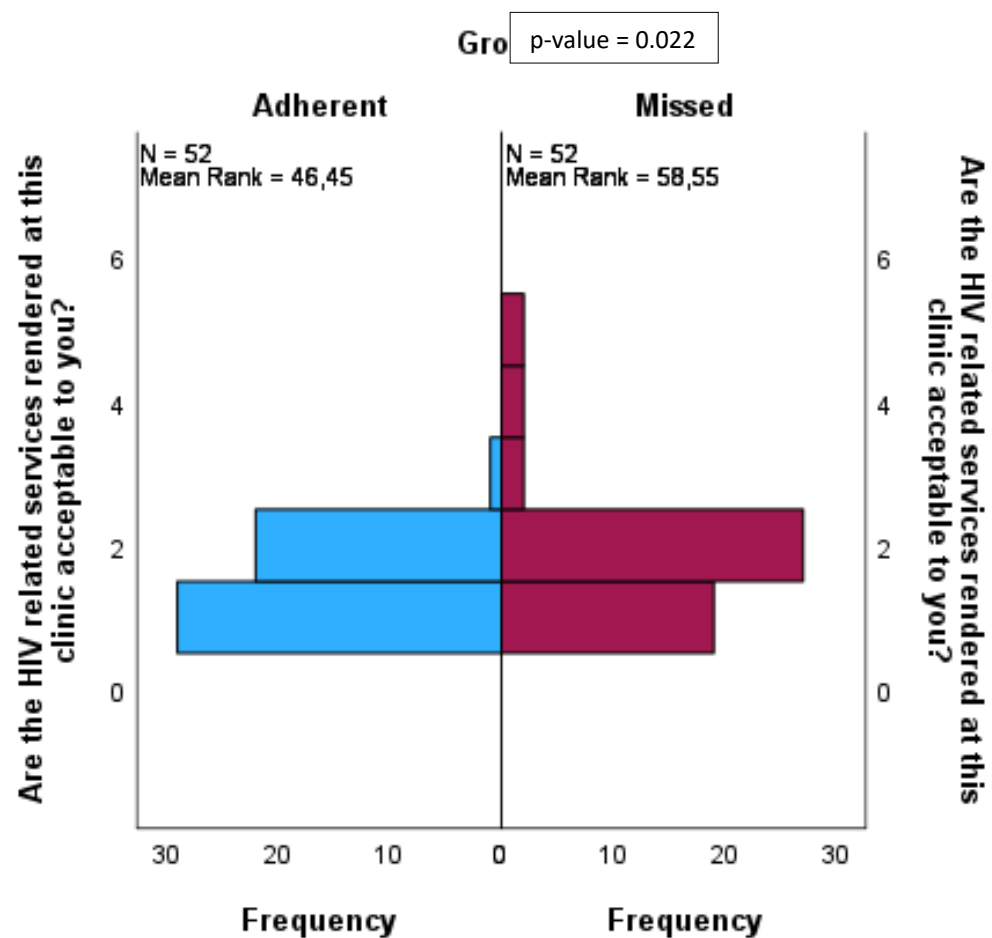
Healthcare-related factors		Likert scale					Mann-Whitney U test				p-value
		Strongly agree	Agree	Not sure	Disagree	Strongly disagree	Adherent N	Mean	Missed N	Mean	
Is the facility setting at this clinic acceptable to you?	Freq %	47 45,2	50 48,1	3 2,9	2 1,9	2 1,9	52	46.89	52	58.11	0.034
Are the HIV-related services rendered at this clinic acceptable to you?	Freq %	48 46,2	49 47,1	3 2,9	2 1,9	2 1,9	52	46.45	52	58.55	0.022
Do you feel that confidentiality is maintained by the clinic staff when rendering these services?	Freq %	47 45,2	48 46,2	6 5,8	2 1,9	1 1,0	52	48.63	52	56.38	0.145
Do you feel that the clinic staff treat patients with respect and dignity when rendering services?	Freq %	47 45,2	50 48,1	5 4,8	2 1,9	0 0,0	52	47.97	52	57.03	0.086
Are waiting times kept within stipulated hours at the clinic?	Freq %	3 2,9	27 26,0	28 26,9	34 32,7	12 11,5	52	55.93	52	49.07	0.228
Are you satisfied with the waiting times that you have experienced while at the clinic?	Freq %	3 2,9	25 24,0	10 9,6	36 34,6	30 28,8	52	49.60	52	55.40	0.306
Have you ever been to the clinic and was told that your ARVs are not available in the clinic?	Freq %	4 3,8	0 0,0	0 0,0	0 0,0	100 96,2	52	52.50	52	52.50	1.000
Has psychosocial support been offered in the clinic?	Freq %	26 25,0	38 36,5	13 12,5	16 15,4	11 10,6	52	56.39	52	48.61	0.172
Have you ever experienced discrimination and isolation by the staff in the clinic?	Freq %	6 5,8	2 1,9	6 5,8	49 47,1	41 39,4	52	55.19	52	49.81	0.319
Do you feel that the clinic has enough qualified staff to handle your issues?	Freq %	26 25,0	74 71,2	4 3,8	0 0,0	0 0,0	52	49.83	52	55.17	0.253
Has the clinic staff ever offered you adherence counselling services?	Freq %	41 39,4	55 52,9	6 5,8	2 1,9	0 0,0	52	51.19	52	53.81	0.619
Does the clinic offer nutritional support services?	Freq %	4 3,8	7 6,7	33 31,7	45 43,3	15 14,4	52	45.30	52	59.70	0.010
Are all health services in the clinic easily accessible to you?	Freq %	15 14,4	71 68,3	14 13,5	3 2,9	1 1,0	52	50.42	52	54.58	0.393

Are there express services that have been offered to you in the clinic?	Freq	5	25	66	6	2	52	47.98	52	57.02	0.074
	%	4,8	24,0	63,5	5,8	1,9					
Are the clinic staff always adequately prepared to render you with services in the clinic?	Freq	31	67	4	2	0	52	45.69	52	59.31	0.006
	%	29,8	64,4	3,8	1,9	0,0					
Are there comprehensive HIV care services offered at the clinic?	Freq	27	73	3	0	1	52	46.50	52	58.50	0.011
	%	26,0	70,2	2,9	0,0	1,0					
Have you ever experienced staff attitudes that have contributed to you not returning to the clinic on your clinic dates?	Freq	3	7	1	64	29	52	58.89	52	46.11	0.012
	%	2,9	6,7	1,0	61,5	27,9					
Are you satisfied with the quality of services offered at the clinic?	Freq	28	65	9	1	1	52	47.25	52	57.75	0.039
	%	26,9	62,5	8,7	1,0	1,0					
Have you ever been turned back from the clinic without receiving health care services?	Freq	6	1	0	11	86	52	59.34	52	45.66	<0.001
	%	5,8	1,0	0,0	10,6	82,7					
Has the quality of services offered at the clinic contributed to you missing your appointment?	Freq	2	7	3	34	14	8	53.50	52	26.96	<0.001
	%	1,9	6,7	2,9	32,7	13,5					

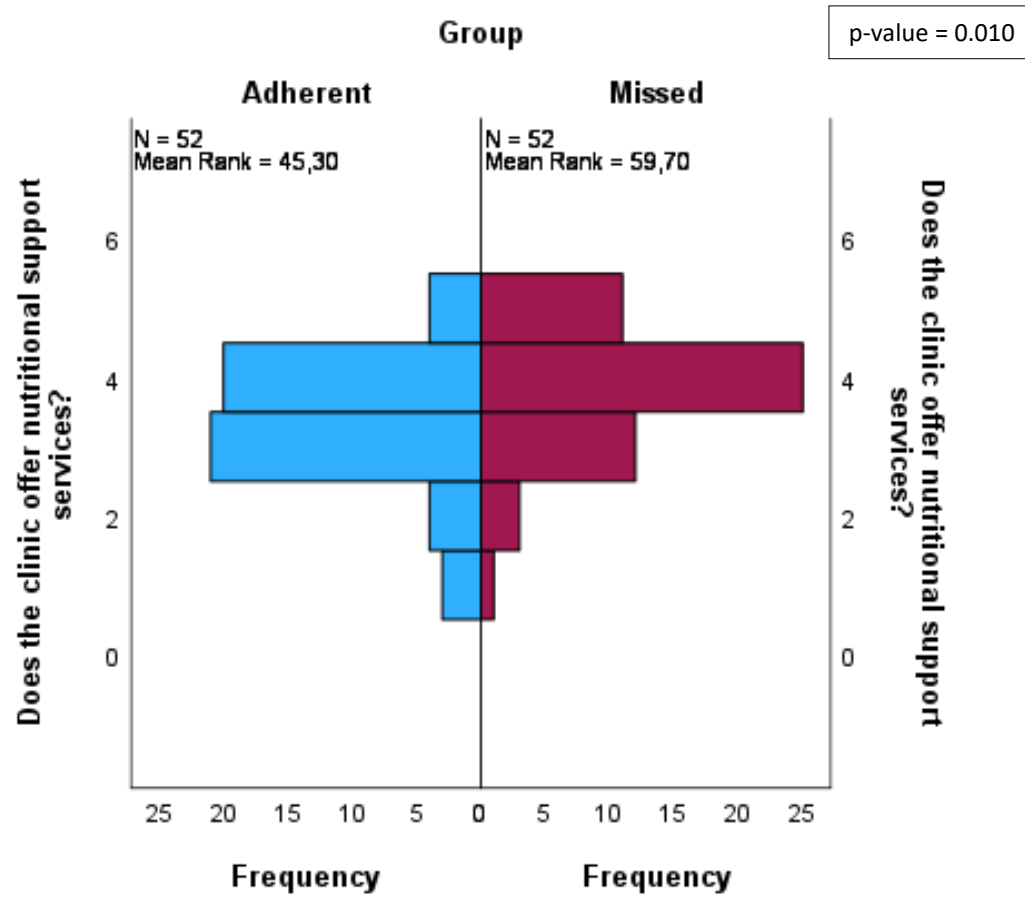
Relationship between facility setting acceptability and clinic attendance



Relationship between HIV-related service acceptability and clinic attendance



Relationship between nutritional support services and clinic attendance



Relationship between adequate staff preparation to render services and clinic attendance

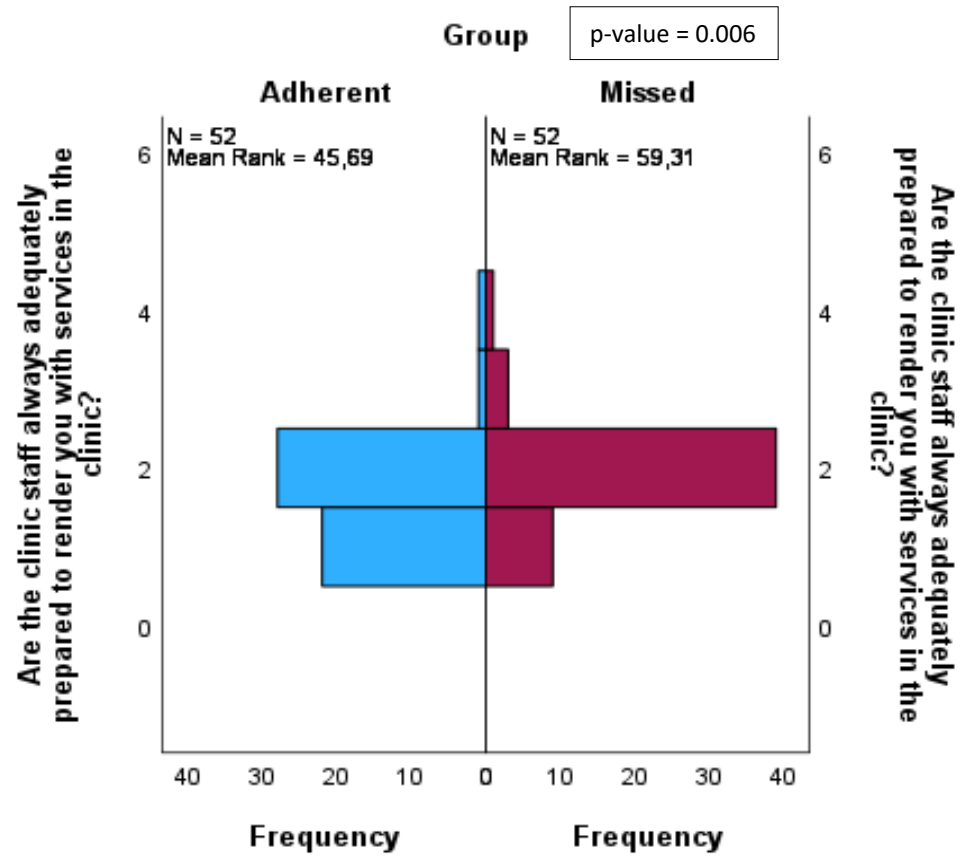
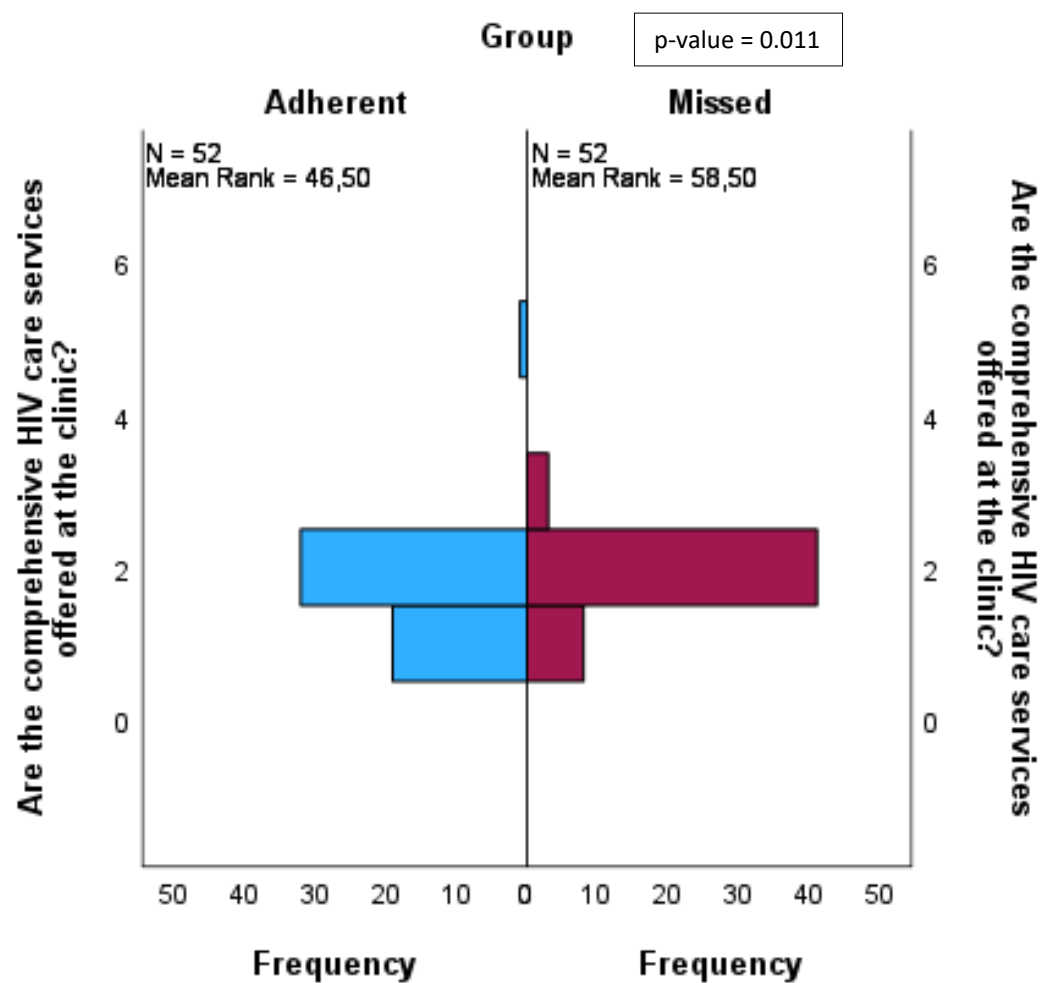
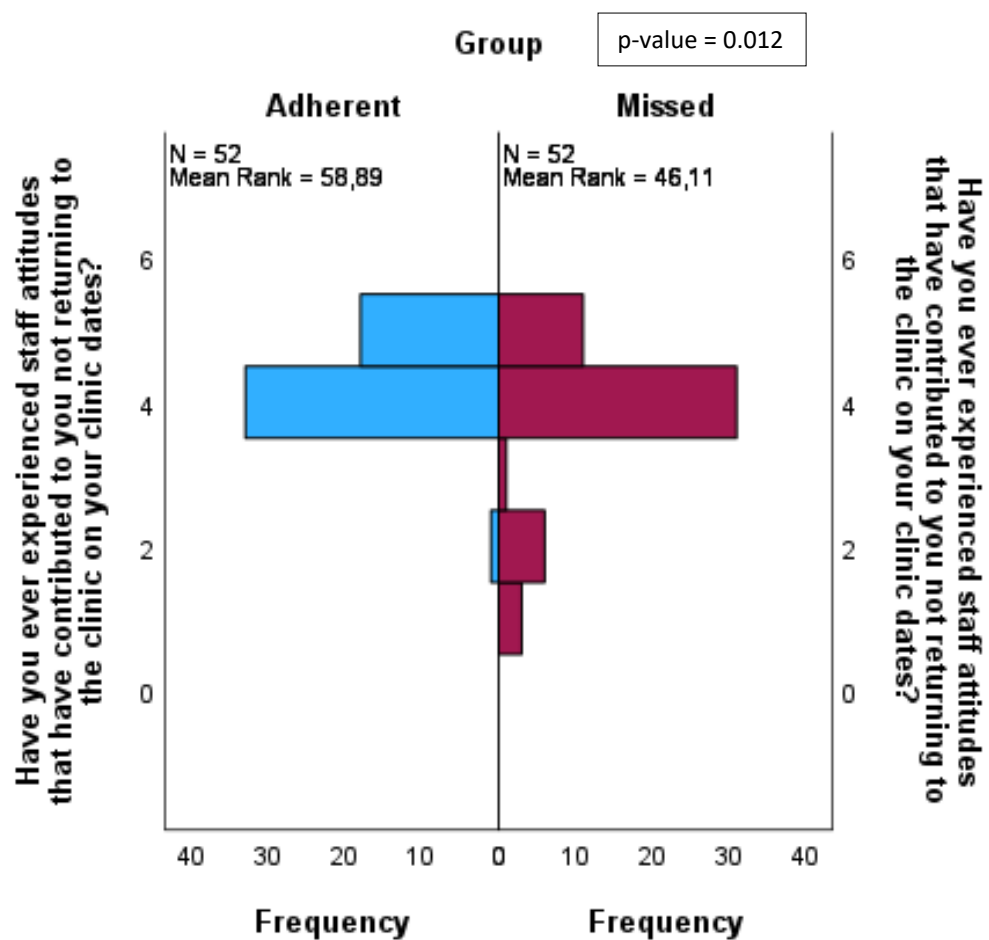


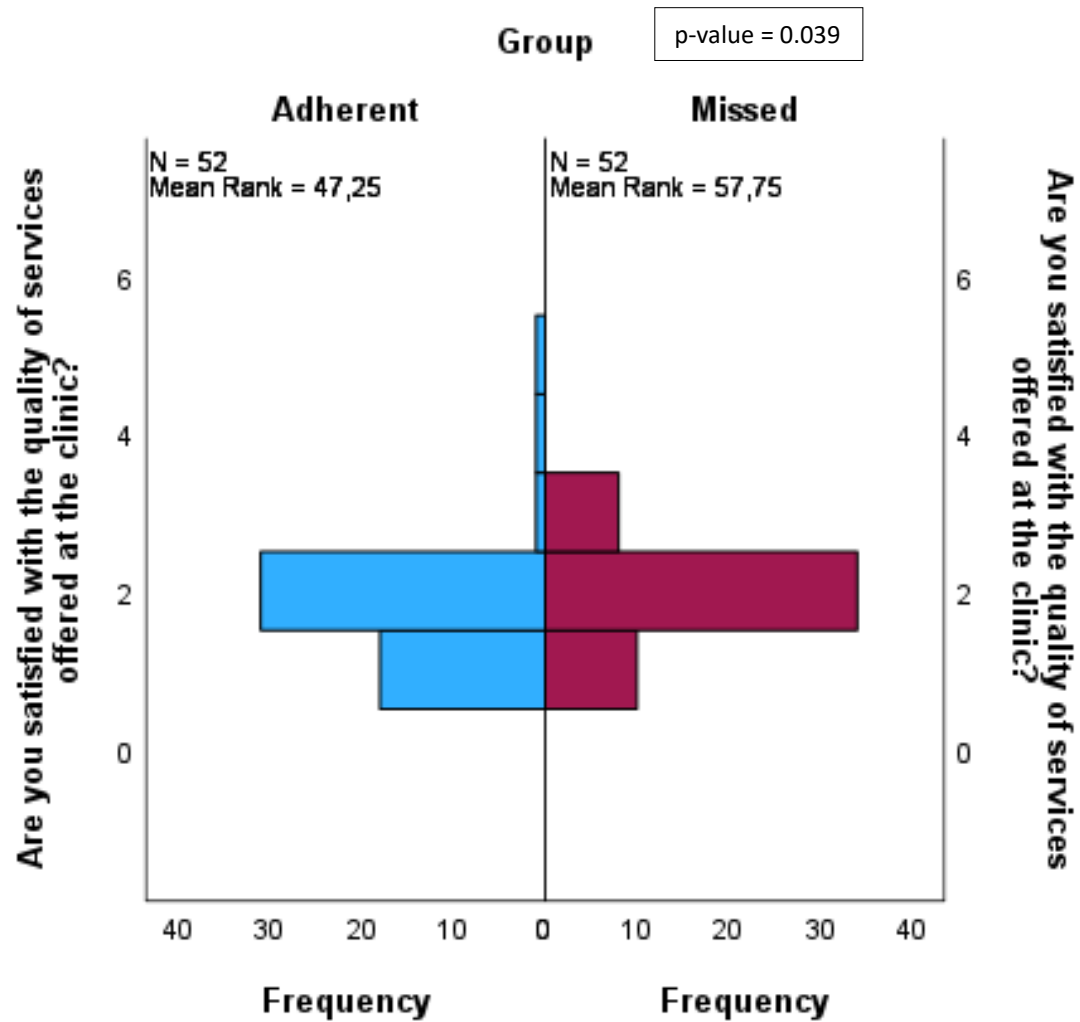
Figure 4.15: Relationship between comprehensive HIV care services offered and clinic attendance



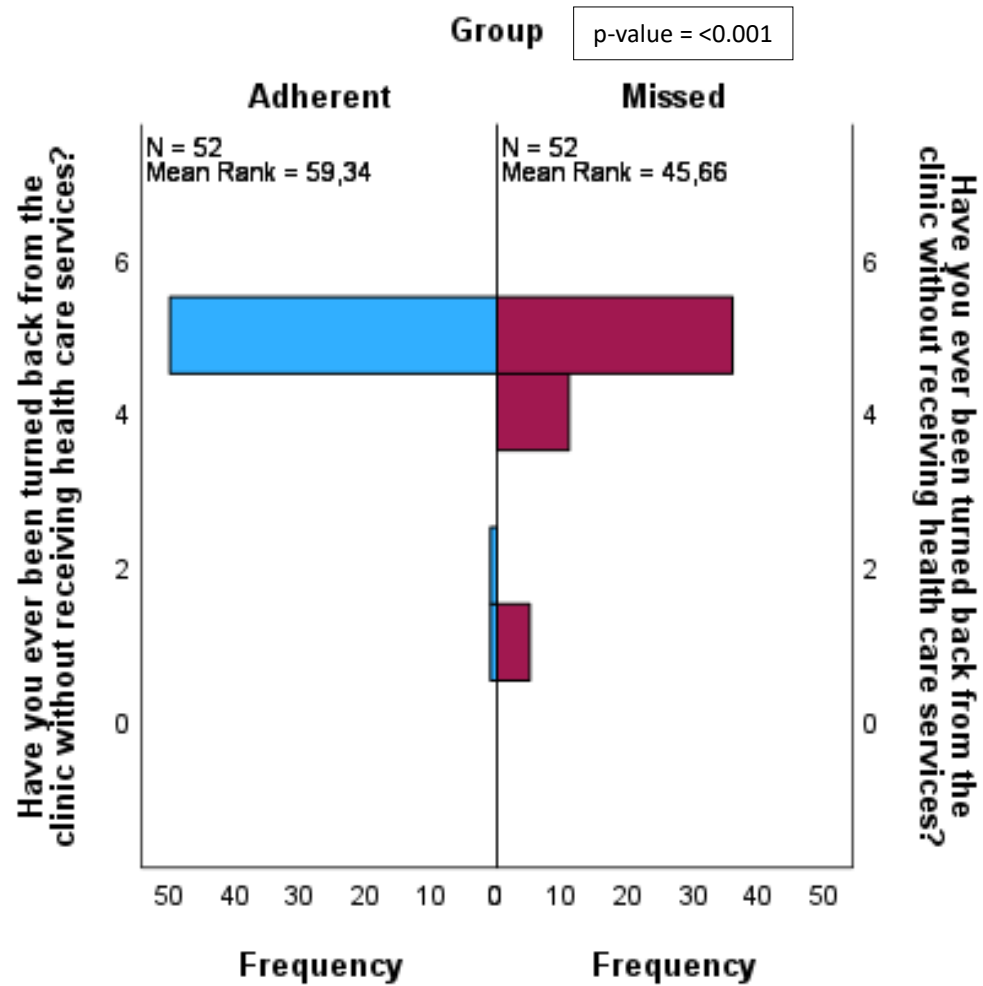
Relationship between experiencing staff attitudes and clinic attendance



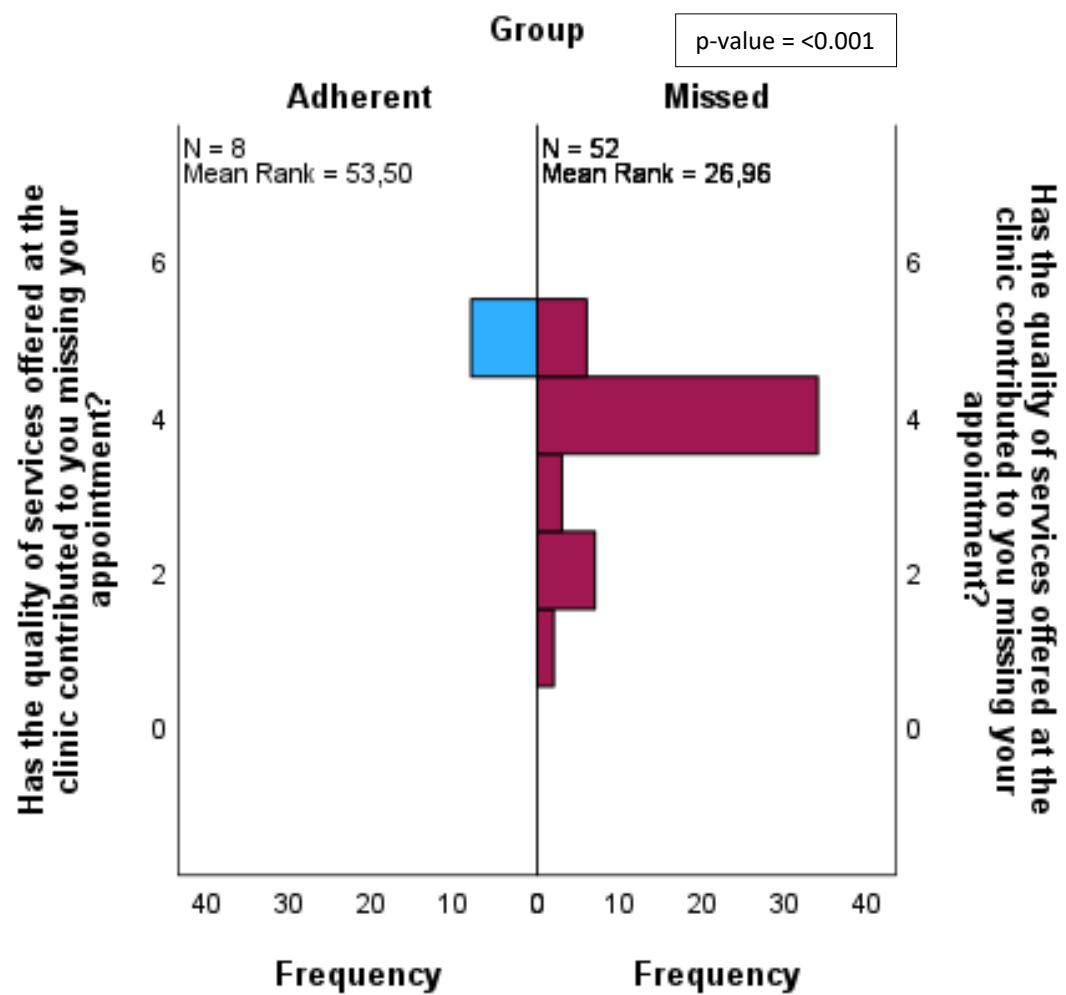
Relationship between the satisfaction with the quality of services offered and clinic attendance



Relationship between being turned back from the clinic without receiving health care services and clinic attendance



Relationship between the quality of services offered and clinic attendance





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