



Republic of Iraq
Ministry of Higher Education and Scientific Research
Al-Zahrawi University College
Evaluation diabetic patient knowledge and attitudes
regarding diabetic food care

A Thesis
Submitted to the Department of Clinical Pharmacy of
Al-Zahrawi University College of Pharmacy

Research Supervisor

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(High Diploma in Clinical Pharmacy/2010)

A GRADUATION PROJECT SUBMITTED BY:

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INTRODUCTION

Among the complications of diabetes, those that occur in the foot are considered the most preventable. The annual incidence of new foot ulcer in patients with diabetes is 2.2%, with incidence increasing to 5.8% in three years⁽ⁱ⁾, ⁽ⁱⁱ⁾The lifetime incidence of developing a foot ulcer is estimated to be as high as 25%.^[iii],^[iv] Poor knowledge and poor foot care practices were identified as important risk factors for foot problems in diabetes.^[v] Hence, in order to minimize, if not totally prevent, foot complications, it is important that appropriate and timely foot self-care be emphasized to patients with [diabetes.^[vi],^[vii],^[viii]

A previous study showed that patients with diabetes often neglect foot self-care practices. The same study concluded that foot self-care practices appear underutilized as a primary complication prevention measure. Instead, patients only adopt foot care practices once complications have already occurred. Facilitators of foot self-care practices, such as patient education, appear to be [reserved for individuals who have already developed foot complications.^[9]

Prior to instructing proper self-care techniques to a patient, it is essential for the health care professional to understand the extent of the said patient's knowledge and practice. The authors found, during the conduct of this study, that administration of standardized written questionnaires was helpful in establishing a patient's baseline knowledge on self-care. By establishing the baseline knowledge level of the subject patients, healthcare providers may be able to determine the gaps in their knowledge and practice on foot self-care and provide

feedback. Diabetes education will then be more effective in the prevention of .foot complications through proper foot care

Based on extensive literature search by the authors, there is no locally conducted study that has investigated the knowledge and foot self-care practices carried out by patients. This study aimed to determine the knowledge and practice of foot care among Iraq with diabetes in our institution using knowledge questionnaires (Appendices 1 and [ix] The factors that affect the level of knowledge and practice of foot self-care. The results of this study ca2).[x],n provide information to clinicians and healthcare providers on proper foot care. Health care professionals and educators may use the results of this .study in the formulation of modules for diabetes-related education

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aim of study this study aim at evaluation diabetic patient knowledge and attitudes regarding diabetic food care

patient and method

fifty diabetic patients attending Imam Hassan Al-Mujtaba Center for Diabetes and Endocrinology were asked to fill the below question form starting from /

الملحق ١. استبيان حول المعرفة بالعناية بالقدم

نود أن نعرف ما الذي تفعله للعناية بقدميك. يرجى وضع علامة (✓) على الفئة التي تعكس ما تفعله فعليًا على أفضل وجه. الرجاء الإجابة على كل سؤال. شكرًا لك.	
١. هل تتفحص قدميك؟	أكثر من مرة في اليوم (٣) مرة واحدة في اليوم (٢) ٦-٢ مرات في الأسبوع (١) مرة واحدة في الأسبوع أو أقل (٠)
٢. هل تتفحص حذائك قبل ارتدائه؟	غالبًا (٣) في بعض الأحيان (٢) نادرًا (١) أبداً (٠)
٣. هل تتفحص حذائك عند خلعه؟	غالبًا (٣) في بعض الأحيان (٢) نادرًا (١) أبداً (٠)
٤. هل تغسل قدميك؟	أكثر من مرة في اليوم (٣) مرة واحدة في اليوم (٢) معظم أيام الأسبوع (١) بضعة أيام في الأسبوع (٠)
٥. هل تتحقق من جفاف قدميك بعد الغسيل؟	غالبًا (٣) في بعض الأحيان (٢) نادرًا (١) أبداً (٠)
٦. هل تجف بين أصابع قدميك؟	غالبًا (٣) في بعض الأحيان (٢) نادرًا (١) أبداً (٠)
٧. هل تستخدمين كريم أو لوشن مرطب على قدميك؟	يومي (٣) مرة واحدة في الأسبوع (٢) مرة واحدة في الشهر (١) أبداً (٠)
٨. هل تضعين كريم أو لوشن مرطب بين أصابع قدميك؟	يومي (٣) مرة واحدة في الأسبوع (٢) مرة واحدة في الشهر (١) أبداً (٠)
٩. هل أظافرك مقطوعة؟	مرة واحدة في الأسبوع (٣) مرة واحدة في الشهر (٢) أقل من مرة في الشهر (١) أبداً (٠)
١٠. هل ترتدي الصنادل؟	في أغلب الأحيان (٠) في بعض الأحيان (١) نادرًا (٢) أبداً (٣)
	
١١. هل ترتدي النعال؟	في أغلب الأحيان (٠) في بعض الأحيان (١) نادرًا (٢) أبداً (٣)
	
١٢. هل ترتدي أحذية مطاطية أو أحذية رياضية؟	في أغلب الأحيان (٠) في بعض الأحيان (١) نادرًا (٢) أبداً (٣)
	
١٣. هل تقوم بتعويد نفسك على الحذاء الجديد تدريجياً؟	دائماً (٣) غالباً (٢) في بعض الأحيان (١)
١٤. هل ترتدي جوارب مصنوعة من الألياف الصناعية (مثل النايلون)؟	في أغلب الأحيان (٠) في بعض الأحيان (١) نادرًا (٢)
١٥. هل ترتدي الجوارب/الجوارب الضيقة؟	في أغلب الأحيان (٠) في بعض الأحيان (١) نادرًا (٢)
١٦. هل ترتدي حذاء بدون جوارب؟	أبداً (٣) نادرًا (٢) في بعض الأحيان (١)
١٧. هل تقوم بتغيير جواربك/جواربك/ملابسك الضيقة؟	أكثر من مرة في اليوم (٣) يومي (٢) ٦-٤ مرات في الأسبوع (١)
١٨. هل تمشي حول المنزل حافي القدمين؟	غالباً (٣) في بعض الأحيان (٢) نادرًا (١)
١٩. هل تمشي خارج المنزل حافي القدمين؟	غالباً (٣) في بعض الأحيان (٢) نادرًا (١)

٢٠. هل تستخدم زجاجة ماء ساخن في السرير؟	غالبا (٠) في بعض الأحيان (١) نادرا (٢)
٢١. هل تضع قدميك بالقرب من النار؟	غالبا (٠) في بعض الأحيان (١) نادرا (٢)
٢٢. هل تضع قدميك على المبرد؟	غالبا (٠) في بعض الأحيان (١) نادرا (٢)
٢٣. هل تقوم بفحص درجة حرارة الماء الذي تغسل فيه قدميك؟	غالبا (٠) في بعض الأحيان (١) نادرا (٢)
٢٤. هل تستخدم علاجات الذرة (الكالو) / لاصقات الذرة (الكالو) / الدهانات عند ظهور الذرة؟	غالبا (٠) في بعض الأحيان (١) نادرا (٢)
٢٥. هل تقوم بوضع ضمادة جافة على البثور عندما تظهر عليك؟	غالبا (٠) في بعض الأحيان (١) نادرا (٢)
٢٦. هل تضع ضمادة جافة على الخدوش أو القطع أو الحروق عندما تصاب بها؟	غالبا (٠) في بعض الأحيان (١) نادرا (٢)

Result

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Do you examine your feet * Do you chek your shoes before you put them on	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you chek your shoes when you take them off	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you wash your feet	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you check your feet are dry after washing	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you dry between your toes	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you use moisturining cream on your feet	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Are you toenails cut	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you wear sandls	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you wear slippers	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you wear rubber or sneakers	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you break in new shoes gradully	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you wear artificial fiber(nylon)stocking	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you wear seamless sock tights	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you wear shoes without sock	50	100.0%	0	0.0%	50	100.0%

Do you examine your feet * Do you change your socks	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you walk around the house in bare feet	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you walk outside the house in bare feet	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you use a hot water bottle in bed	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you put your feet on a radiator	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you check the temperature of the water you wash your feet in	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you use corn remedies paint when you get acorn	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you put a dyr dressing on a bilster when you get one	50	100.0%	0	0.0%	50	100.0%
Do you examine your feet * Do you put a dry dressing on a graze ,cut or burn when you get one	50	100.0%	0	0.0%	50	100.0%

Do you examine your feet * Do you chek your shoes before you put them on

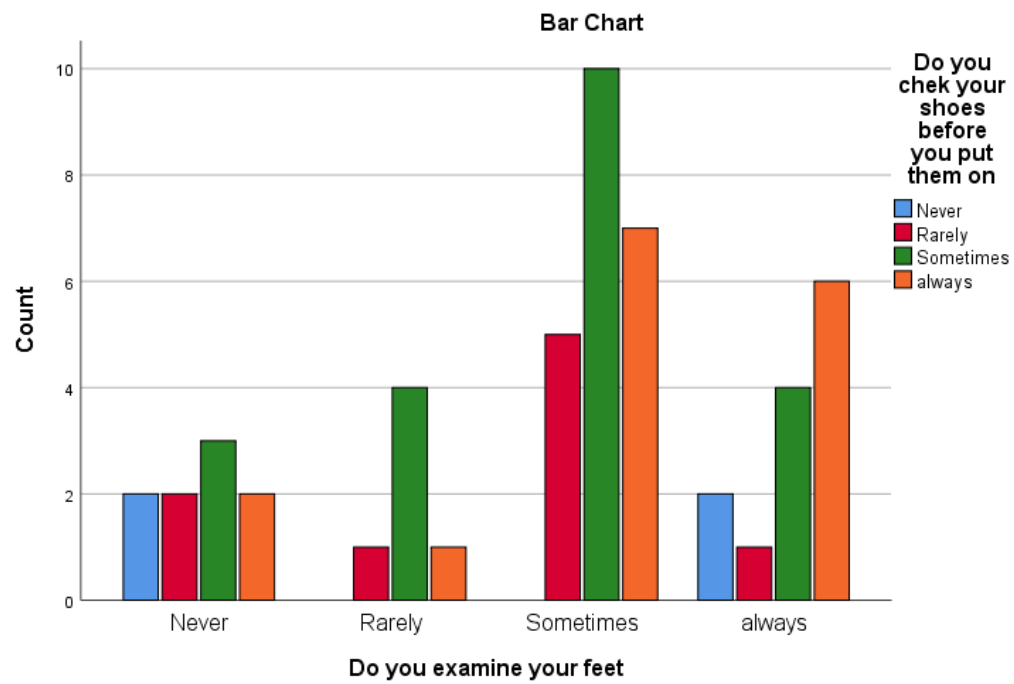
Crosstab

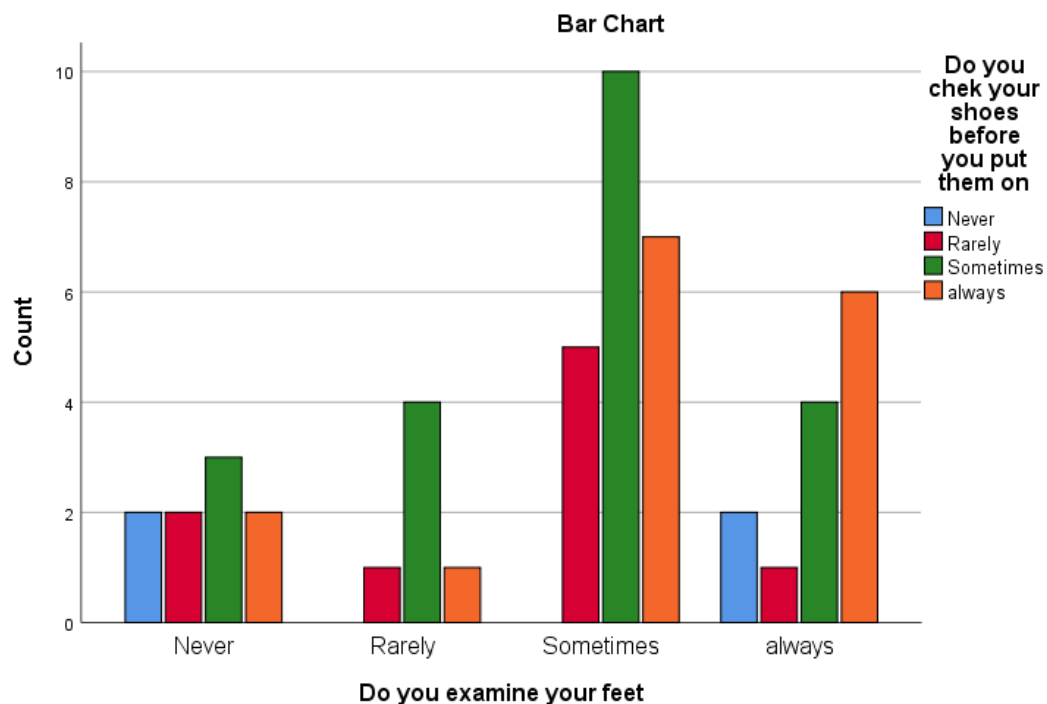
		Do you chek your shoes before you put them on				Count
		Never	Rarely	Sometimes	always	Total
Do you examine your feet	Never	2	2	3	2	9
	Rarely	0	1	4	1	6
	Sometimes	0	5	10	7	22
	always	2	1	4	6	13
Total		4	9	21	16	50

Chi-Square Tests

	Value	Df	Asymptotic Significance (2-sided)
Pearson Chi-Square	9.544 ^a	9	.389
Likelihood Ratio	10.976	9	.277
Linear-by-Linear Association	1.753	1	.185
N of Valid Cases	50		

a. 13 cells (81.3%) have expected count less than 5. The minimum expected count is .48.





Do you examine your feet * Do you check your shoes when you take them off

Crosstab

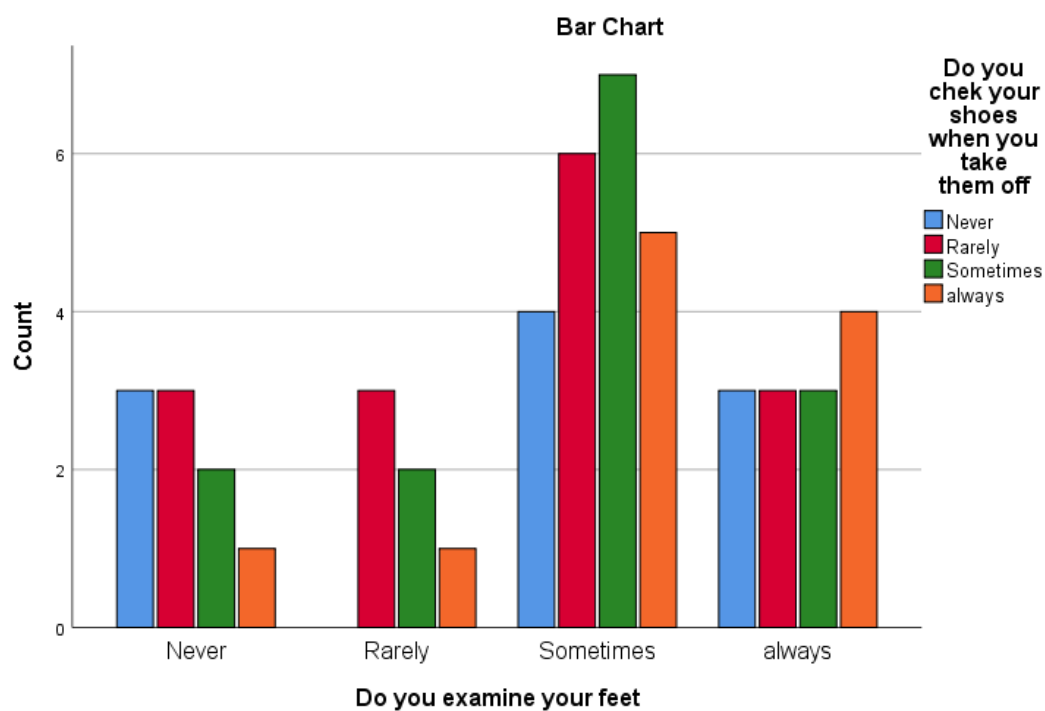
		Do you check your shoes when you take them off				Count
		Never	Rarely	Sometimes	Always	Total
Do you examine your feet	Never	3	3	2	1	9
	Rarely	0	3	2	1	6
	Sometimes	4	6	7	5	22
	always	3	3	3	4	13
Total		10	15	14	11	50

Chi-Square Tests

		Never	Rarely	Sometimes	Always	
Do you examine your feet	Never	2	0	0	7	9
	Rarely	0	1	0	5	6
	Sometimes	0	0	5	17	22
	always	0	1	6	6	13
Total		2	2	11	35	50

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	4.611 ^a	9	.867
Likelihood Ratio	5.630	9	.776
Linear-by-Linear Association	1.019	1	.313
N of Valid Cases	50		

a. 14 cells (87.5%) have expected count less than 5. The minimum expected count is 1.20.



Do you examine your feet * Do you wash your feet

Do you examine your feet * Do you check your feet are dry after washing

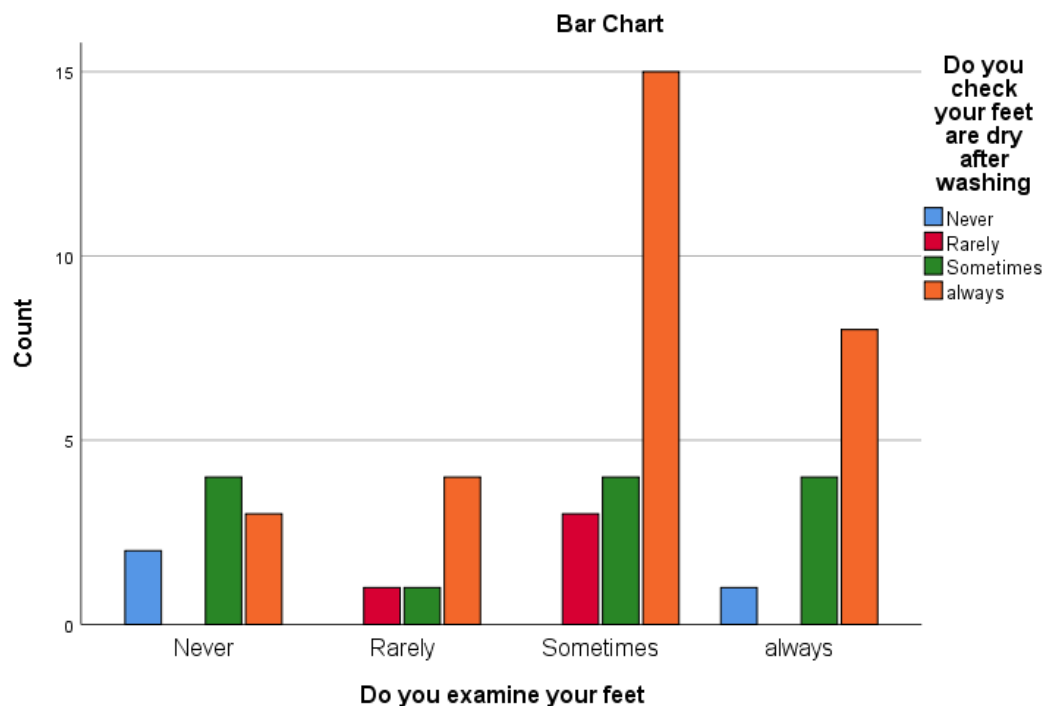
Crosstab

		Do you check your feet are dry after washing				Count
		Never	Rarely	Sometimes	Always	Total
Do you examine your feet	Never	2	0	4	3	9
	Rarely	0	1	1	4	6
	Sometimes	0	3	4	15	22
	always	1	0	4	8	13
Total		3	4	13	30	50

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	12.258 ^a	9	.199
Likelihood Ratio	13.844	9	.128
Linear-by-Linear Association	2.167	1	.141
N of Valid Cases	50		

a. 12 cells (75.0%) have expected count less than 5. The minimum expected count is .36.

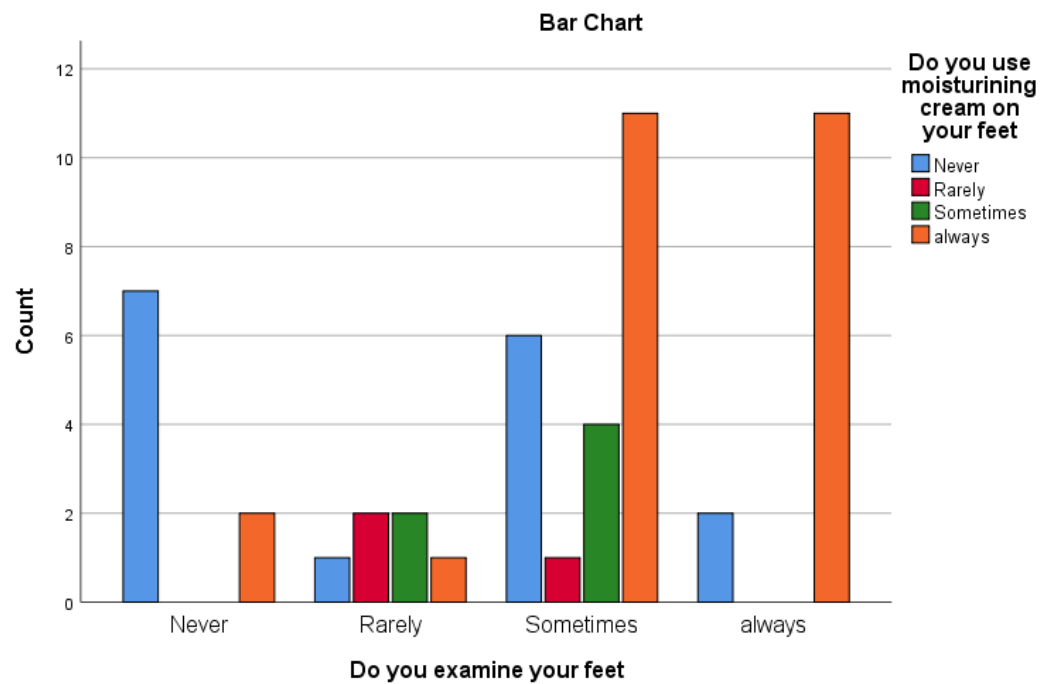


Do you examine your feet * Do you dry between your toes

Crosstab

		Do you dry between your toes				Count
		Never	Rarely	Sometimes	Always	Total
Do you examine your feet	Never	1	0	5	3	9
	Rarely	0	3	1	2	6
	Sometimes	0	5	8	9	22
	always	3	1	0	9	13
	Total	4	9	14	23	50

Chi-Square Tests



Do you examine your feet * Are you toenails cut

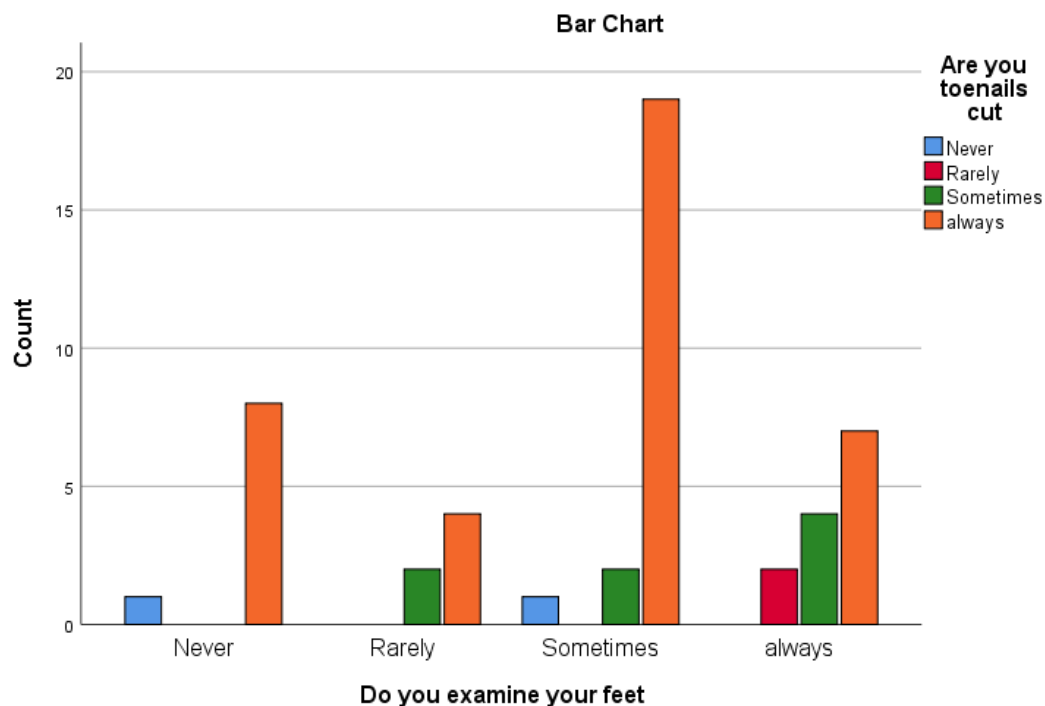
Crosstab

		Are you toenails cut				Count
		Never	Rarely	Sometimes	always	Total
Do you examine your feet	Never	1	0	0	8	9
	Rarely	0	0	2	4	6
	Sometimes	1	0	2	19	22
	always	0	2	4	7	13
Total		2	2	8	38	50

Chi-Square Tests

	Value	Df	Asymptotic Significance (2- sided)
Pearson Chi-Square	14.018 ^a	9	.122
Likelihood Ratio	15.085	9	.089
Linear-by-Linear Association	.531	1	.466
N of Valid Cases	50		

a. 13 cells (81.3%) have expected count less than 5. The minimum expected count is .24.

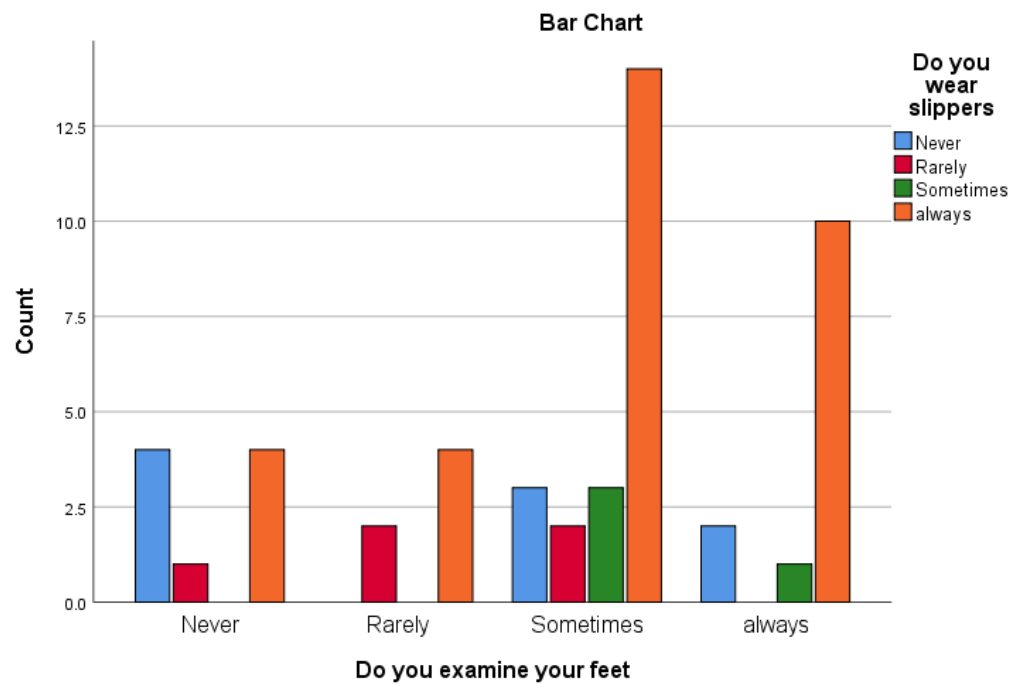


Do you examine your feet * Do you wear sandals

Crosstab

		Do you wear sandals				Count
		Never	Rarely	Sometimes	always	Total
Do you examine your feet	Never	2	2	1	4	9
	Rarely	1	2	1	2	6
	Sometimes	4	2	6	10	22
	always	2	5	0	6	13
Total		9	11	8	22	50

Chi-Square Tests



Do you examine your feet * Do you wear rubber or sneakers

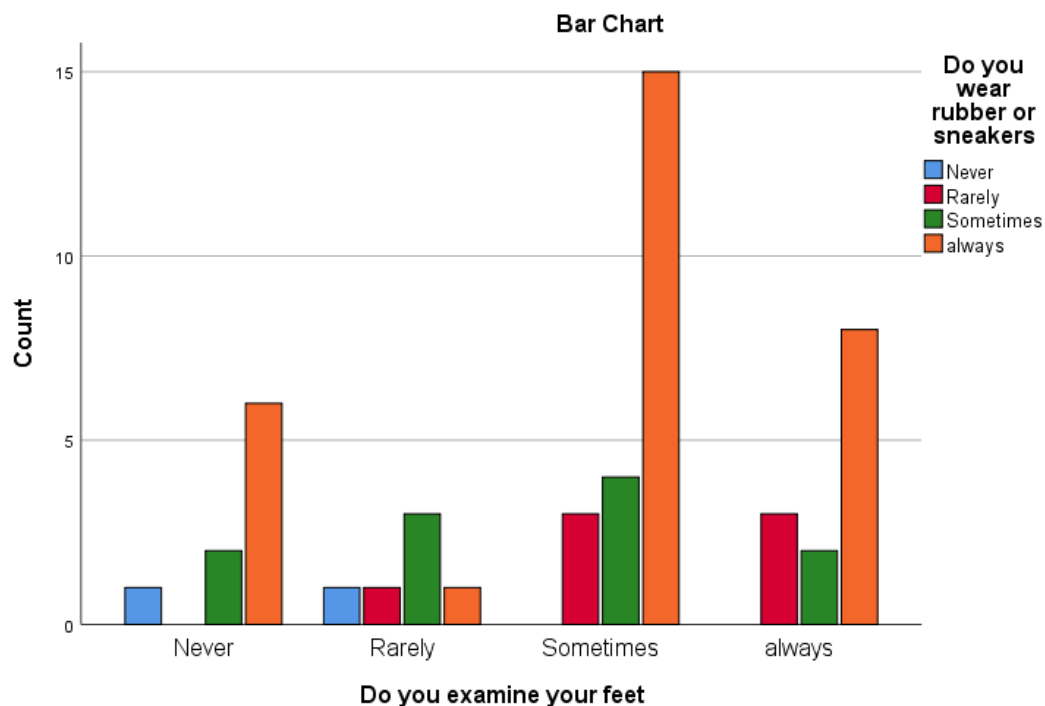
Crosstab

		Do you wear rubber or sneakers				Count
		Never	Rarely	Sometimes	always	Total
Do you examine your feet	Never	1	0	2	6	9
	Rarely	1	1	3	1	6
	Sometimes	0	3	4	15	22
	always	0	3	2	8	13
Total		2	7	11	30	50

Chi-Square Tests

	Value	Df	Asymptotic Significance (2- sided)
Pearson Chi-Square	11.740 ^a	9	.228
Likelihood Ratio	13.040	9	.161
Linear-by-Linear Association	.249	1	.617
N of Valid Cases	50		

a. 13 cells (81.3%) have expected count less than 5. The minimum expected count is .24.



Do you examine your feet * Do you break in new shoes gradually

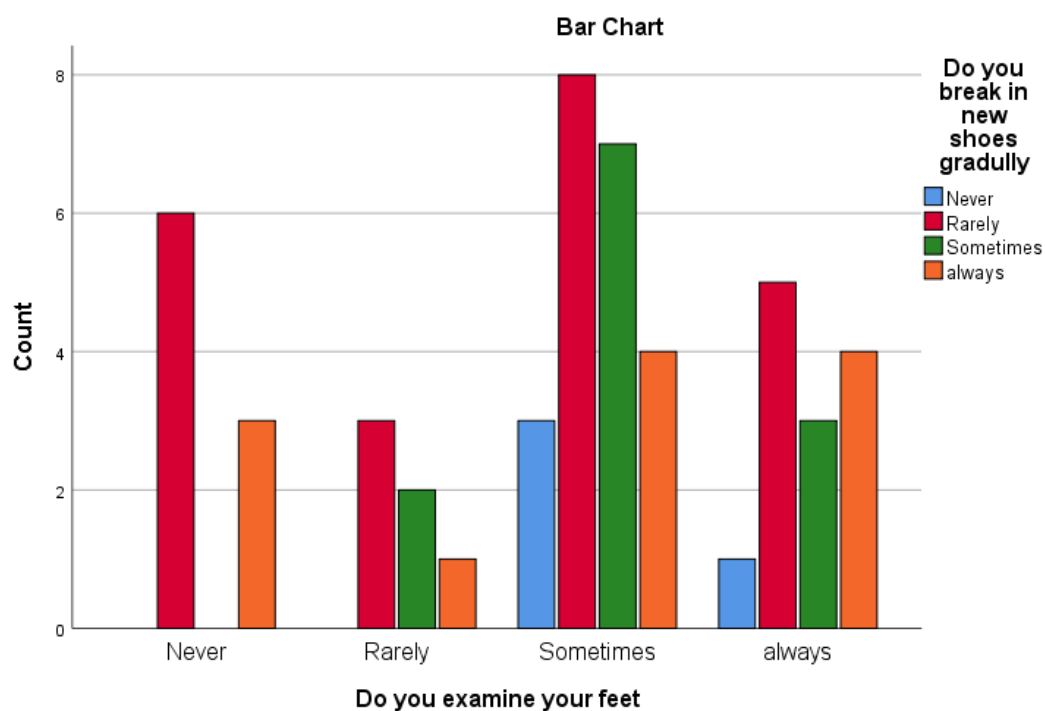
Crosstab

		Do you break in new shoes gradually				Total
		Never	Rarely	Sometimes	always	
Do you examine your feet	Never	0	6	0	3	9
	Rarely	0	3	2	1	6
	Sometimes	3	8	7	4	22
	Always	1	5	3	4	13
Total		4	22	12	12	50

Chi-Square Tests

	Value	Df	Asymptotic Significance (2- sided)
Pearson Chi-Square	7.520 ^a	9	.583
Likelihood Ratio	10.514	9	.310
Linear-by-Linear Association	.023	1	.879
N of Valid Cases	50		

a. 12 cells (75.0%) have expected count less than 5. The minimum expected count is .48.



Do you examine your feet * Do you wear artificial fiber(nylon)stocking

Crosstab

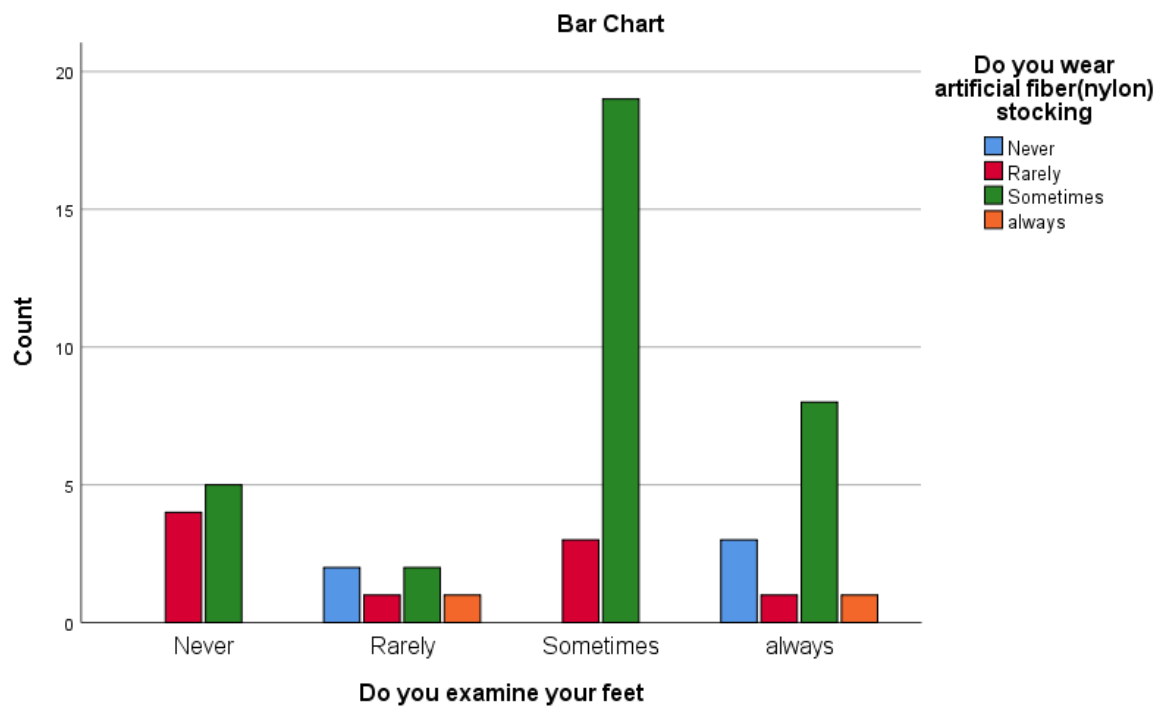
		Do you wear artificial fiber(nylon)stocking				Total
		Never	Rarely	Sometimes	always	
Do you examine your feet	Never	0	4	5	0	9
	Rarely	2	1	2	1	6

Sometimes	0	3	19	0	22
Always	3	1	8	1	13
Total	5	9	34	2	50

Chi-Square Tests

	Value	Df	Asymptotic Significance (2- sided)
Pearson Chi-Square	19.618 ^a	9	.020
Likelihood Ratio	20.320	9	.016
Linear-by-Linear Association	.189	1	.664
N of Valid Cases	50		

a. 13 cells (81.3%) have expected count less than 5. The minimum expected count is .24.



Do you examine your feet * Do you wear seamless sock tights

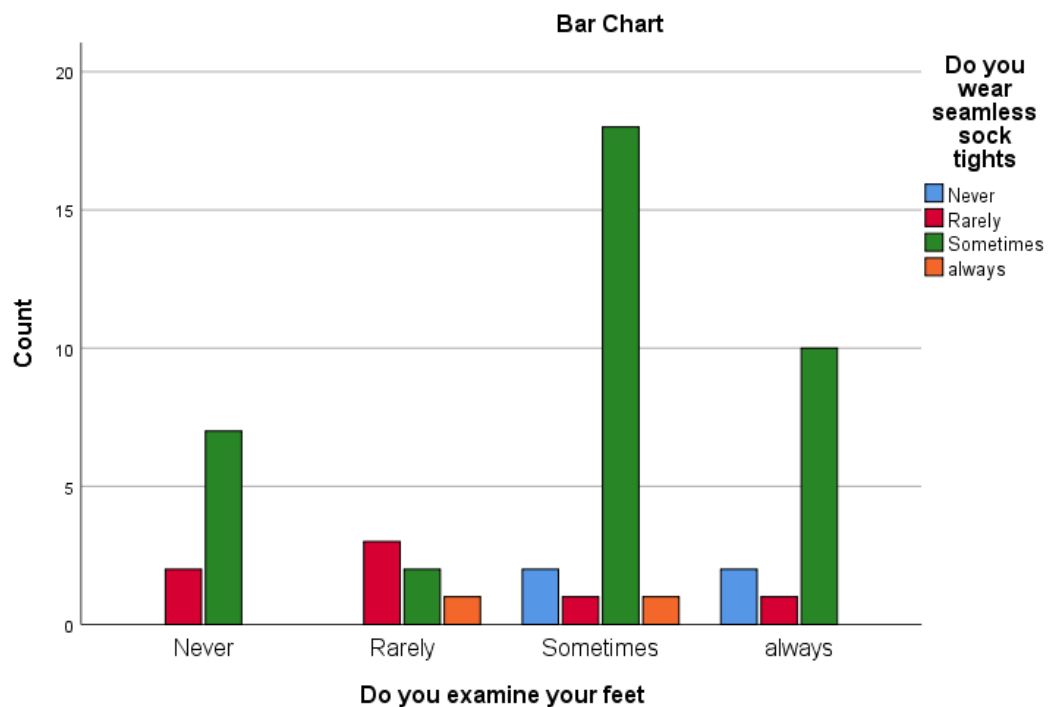
Crosstab

		Do you wear seamless sock tights				Count
		Never	Rarely	Sometimes	always	Total
Do you examine your feet	Never	0	2	7	0	9
	Rarely	0	3	2	1	6
	Sometimes	2	1	18	1	22
	always	2	1	10	0	13
Total		4	7	37	2	50

Chi-Square Tests

	Value	Df	Asymptotic Significance (2- sided)
Pearson Chi-Square	14.740 ^a	9	.098
Likelihood Ratio	14.173	9	.116
Linear-by-Linear Association	.149	1	.699
N of Valid Cases	50		

a. 13 cells (81.3%) have expected count less than 5. The minimum expected count is .24.



Do you examine your feet * Do you wear shoes without sock

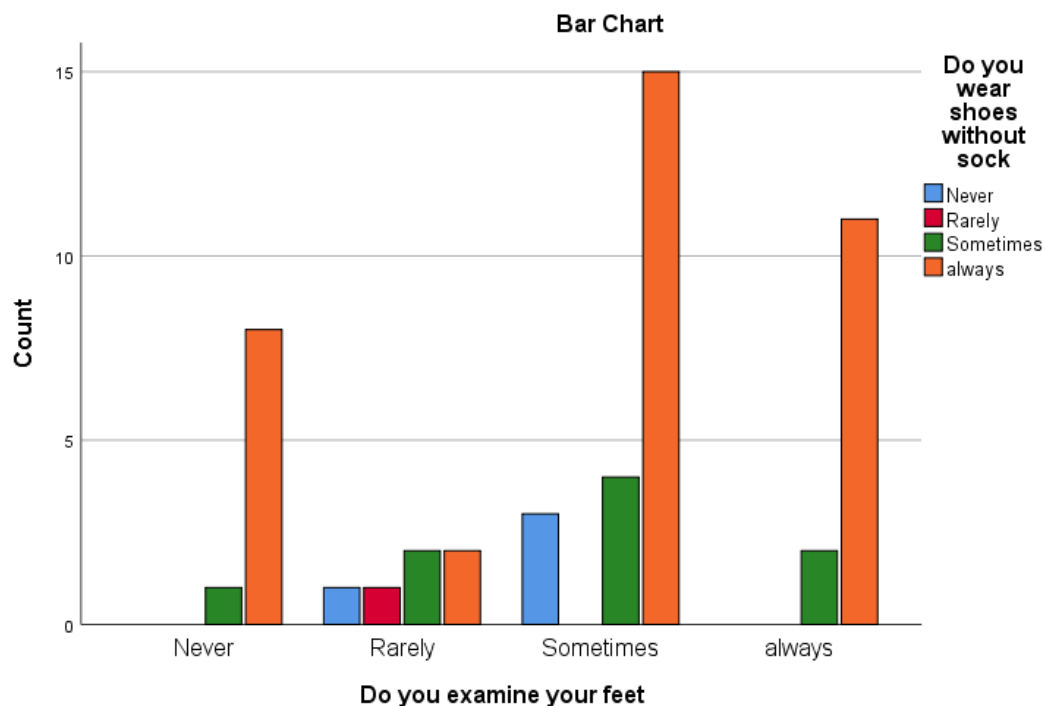
Crosstab

		Do you wear shoes without sock				Count
		Never	Rarely	Sometimes	always	Total
Do you examine your feet	Never	0	0	1	8	9
	Rarely	1	1	2	2	6
	Sometimes	3	0	4	15	22
	always	0	0	2	11	13
Total		4	1	9	36	50

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	13.535 ^a	9	.140
Likelihood Ratio	12.069	9	.209
Linear-by-Linear Association	.091	1	.763
N of Valid Cases	50		

a. 13 cells (81.3%) have expected count less than 5. The minimum expected count is .12.



Do you examine your feet * Do you change your socks

Crosstab

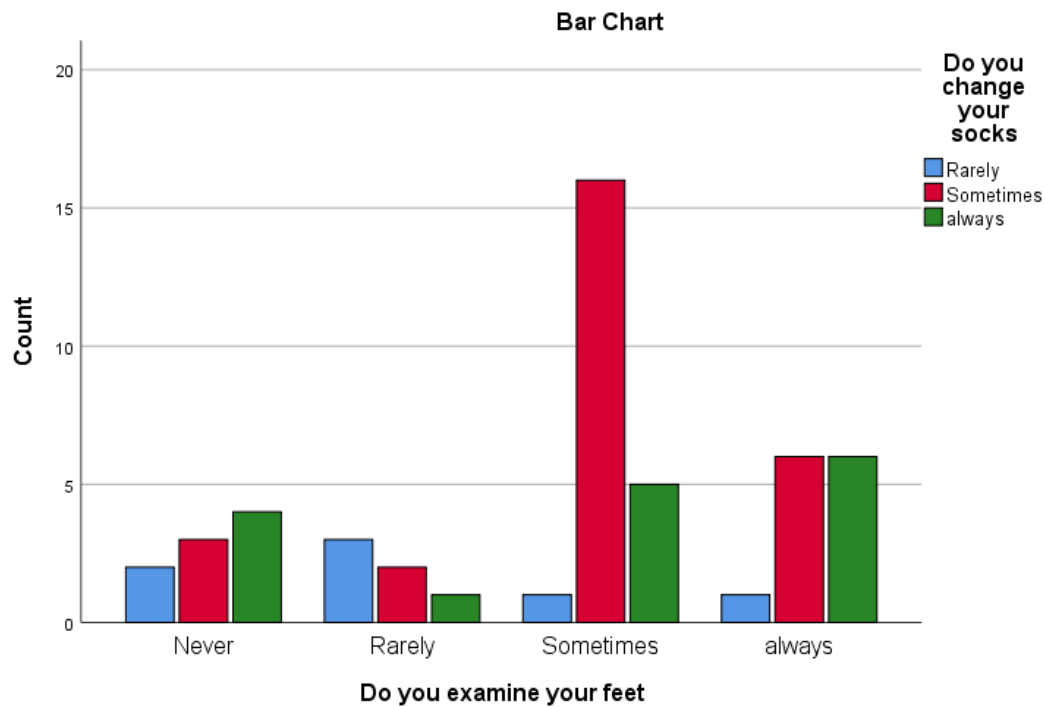
		Do you change your socks			Count
		Rarely	Sometimes	always	Total
Do you examine your feet	Never	2	3	4	9
	Rarely	3	2	1	6
	Sometimes	1	16	5	22
	always	1	6	6	13
Total		7	27	16	50

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	12.808 ^a	6	.046

Likelihood Ratio	11.154	6	.084
Linear-by-Linear Association	1.081	1	.298
N of Valid Cases	50		

a. 9 cells (75.0%) have expected count less than 5. The minimum expected count is .84.



Do you examine your feet * Do you walk around the house in bare feet

Crosstab

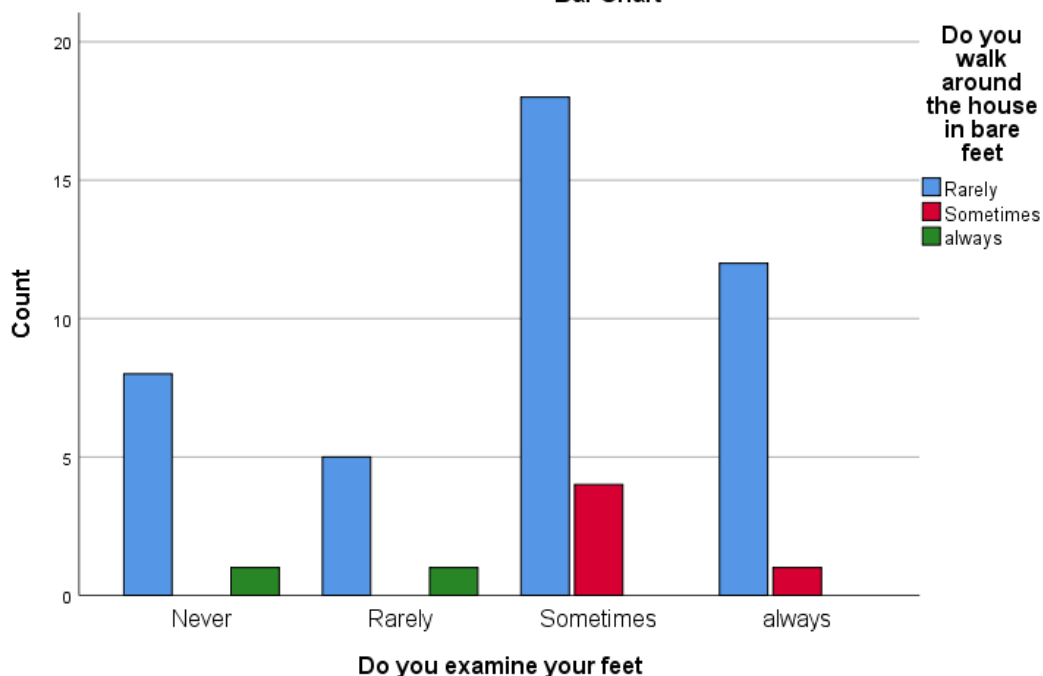
		Do you walk around the house in bare feet			Count
		Rarely	Sometimes	always	
Do you examine your feet	Never	8	0	1	9
	Rarely	5	0	1	6
	Sometimes	18	4	0	22
	always	12	1	0	13
Total		43	5	2	50

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	8.105 ^a	6	.231
Likelihood Ratio	9.273	6	.159
Linear-by-Linear Association	.747	1	.387
N of Valid Cases	50		

a. 8 cells (66.7%) have expected count less than 5. The minimum expected count is .24.

Bar Chart



Do you examine your feet * Do you walk outside the house in bare feet

Crosstab

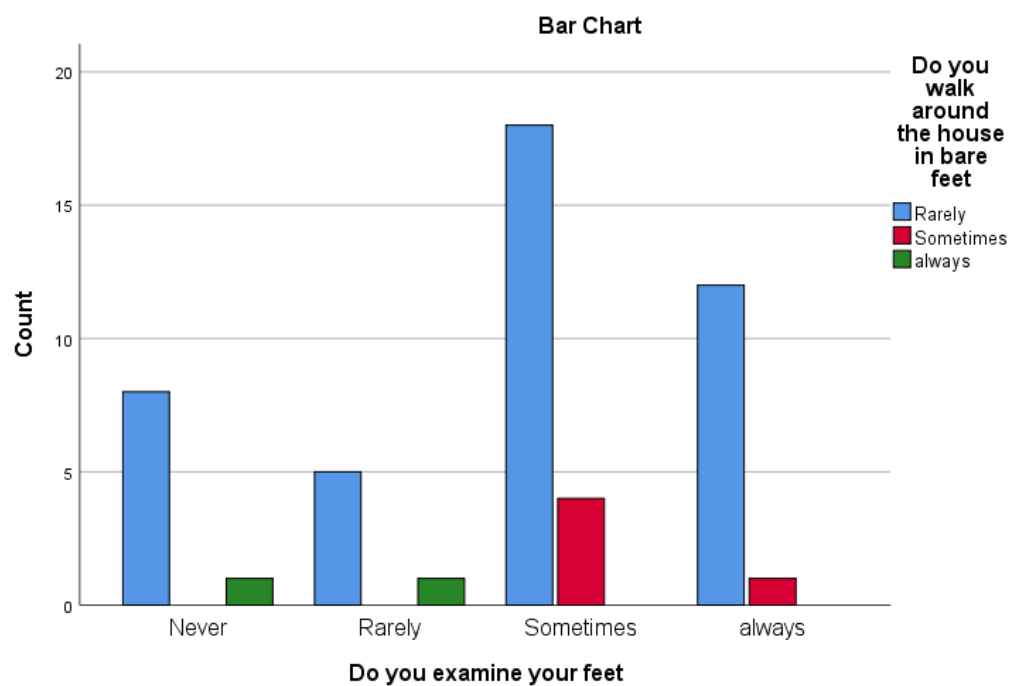
		Do you walk outside the house in bare feet				Count
		Never	Rarely	Sometimes	always	Total
Do you examine your feet	Never	0	7	2	0	9
	Rarely	0	5	1	0	6

	Sometimes	1	21	0	0	22
	Always	0	11	1	1	13
	Total	1	44	4	1	50

Chi-Square Tests

	Value	Df	Asymptotic Significance (2- sided)
Pearson Chi-Square	8.997 ^a	9	.438
Likelihood Ratio	10.091	9	.343
Linear-by-Linear Association	.089	1	.766
N of Valid Cases	50		

a. 12 cells (75.0%) have expected count less than 5. The minimum expected count is .12.



Do you examine your feet * Do you walk outside the house in bare feet

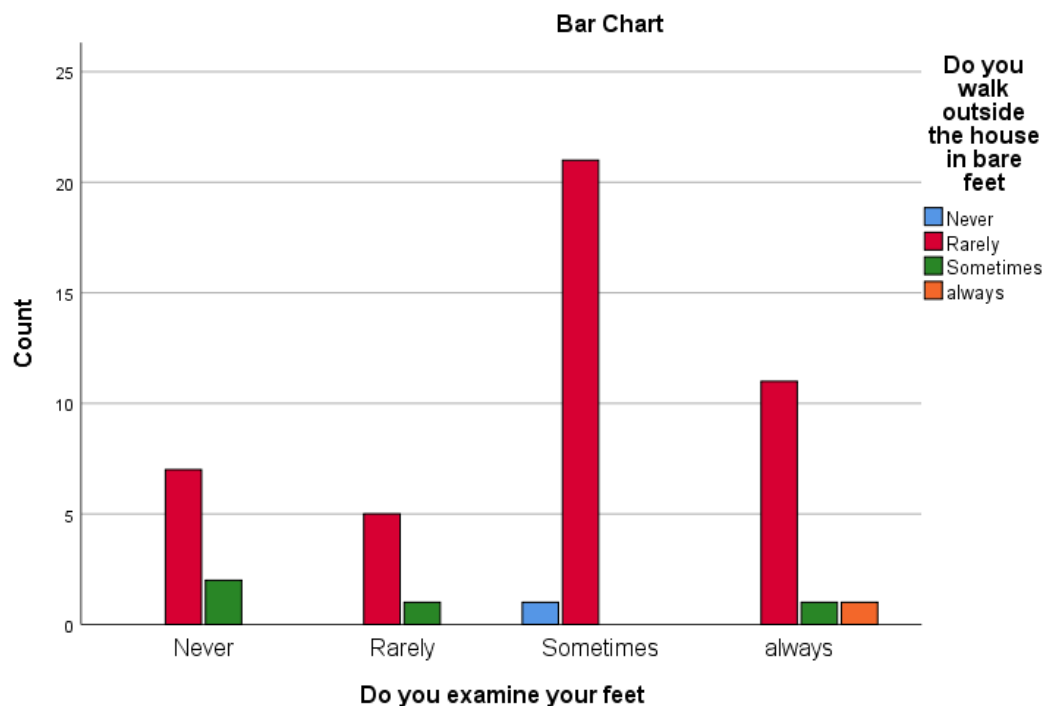
Crosstab

		Do you walk outside the house in bare feet				Count
		Never	Rarely	Sometimes	always	Total
Do you examine your feet	Never	0	7	2	0	9
	Rarely	0	5	1	0	6
	Sometimes	1	21	0	0	22
	always	0	11	1	1	13
Total		1	44	4	1	50

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	8.997 ^a	9	.438
Likelihood Ratio	10.091	9	.343
Linear-by-Linear Association	.089	1	.766
N of Valid Cases	50		

a. 12 cells (75.0%) have expected count less than 5. The minimum expected count is .12.



Do you examine your feet * Do you use a hot water bottle in bed

Crosstab

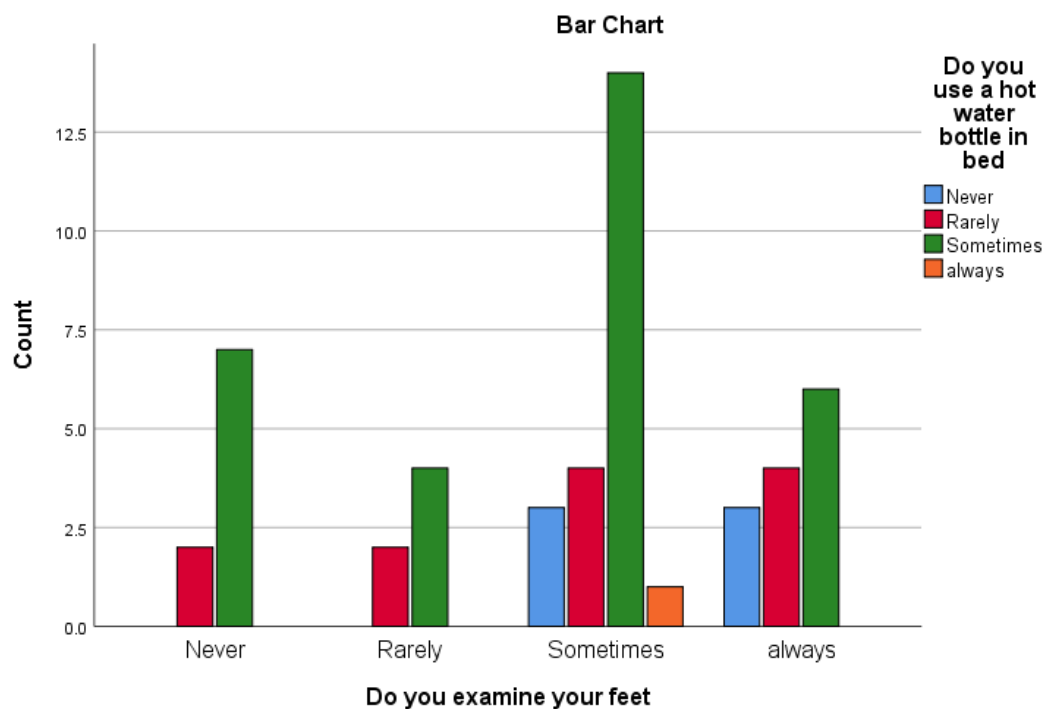
		Do you use a hot water bottle in bed				Total
		Never	Rarely	Sometimes	always	
Do you examine your feet	Never	0	2	7	0	9
	Rarely	0	2	4	0	6
	Sometimes	3	4	14	1	22
	always	3	4	6	0	13
Total		6	12	31	1	50

Chi-Square Tests

Value	df	Asymptotic Significance (2- sided)

Pearson Chi-Square	6.158 ^a	9	.724
Likelihood Ratio	8.048	9	.529
Linear-by-Linear Association	2.895	1	.089
N of Valid Cases	50		

a. 12 cells (75.0%) have expected count less than 5. The minimum expected count is .12.



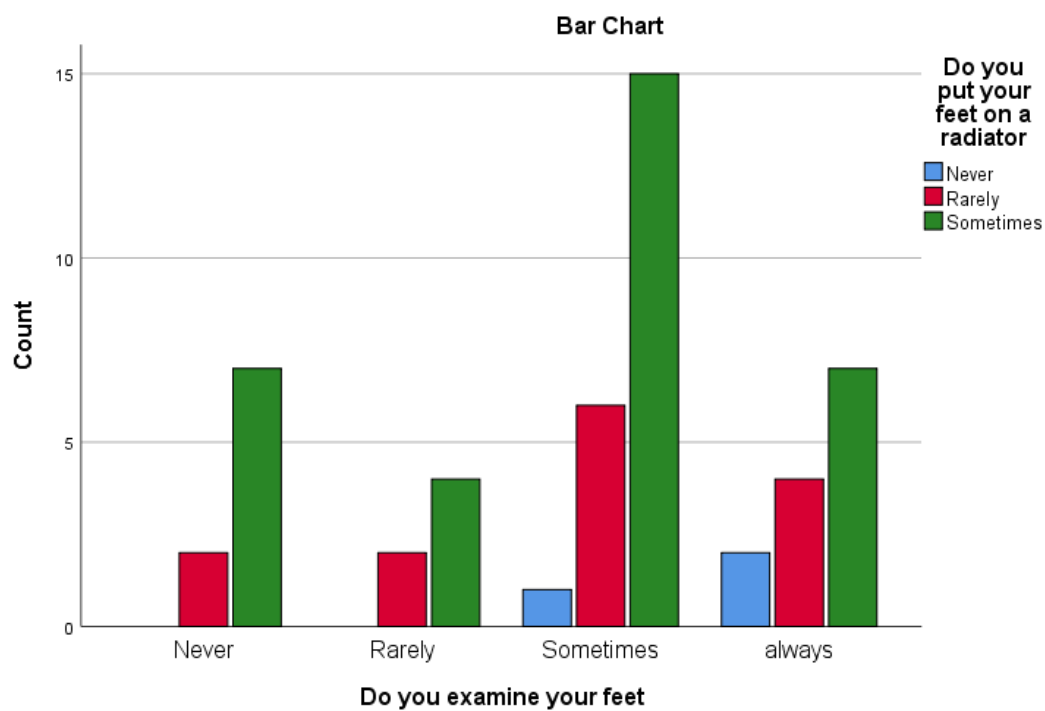
Do you examine your feet * Do you put your feet on a radiator

		Do you put your feet on a radiator			Count
		Never	Rarely	Sometimes	Total
Do you examine your feet	Never	0	2	7	9
	Rarely	0	2	4	6
	Sometimes	1	6	15	22
	always	2	4	7	13
Total		3	14	33	50

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	3.590 ^a	6	.732
Likelihood Ratio	3.928	6	.686
Linear-by-Linear Association	2.121	1	.145
N of Valid Cases	50		

a. 8 cells (66.7%) have expected count less than 5. The minimum expected count is .36.



**Do you examine your feet * Do you check the temperature of the water
you wash your feet in**

Crosstab

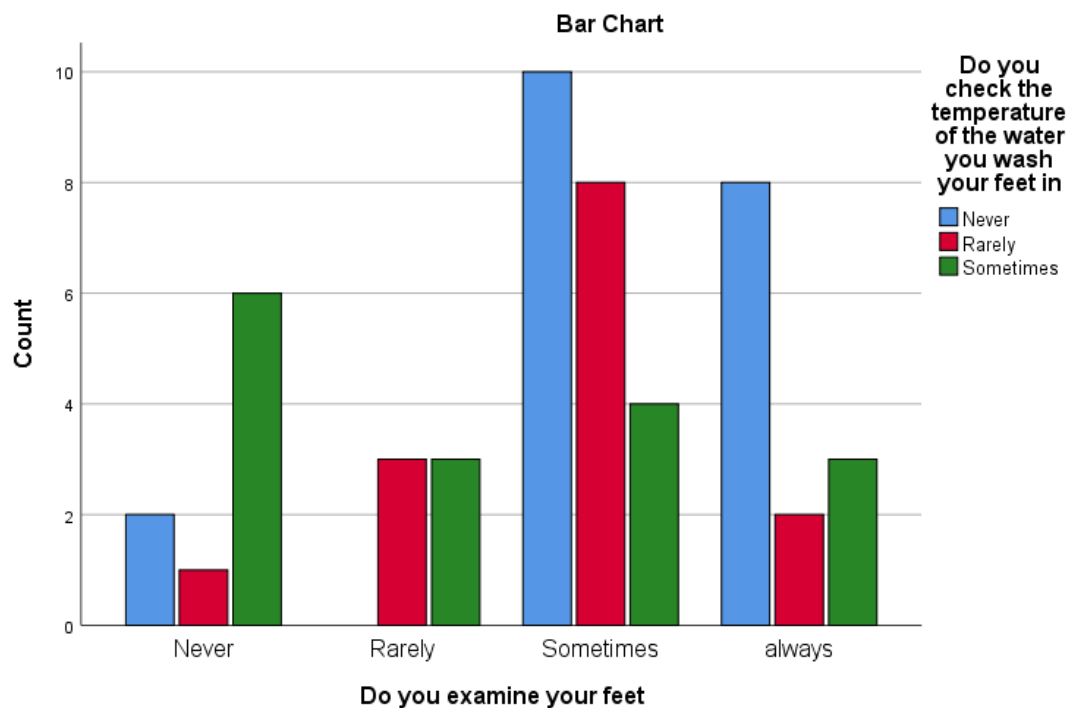
Count

		Do you check the temperature of the water you wash your feet in			Total
		Never	Rarely	Sometimes	
Do you examine your feet	Never	2	1	6	9
	Rarely	0	3	3	6
	Sometimes	10	8	4	22
	always	8	2	3	13
Total		20	14	16	50

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	13.649 ^a	6	.034
Likelihood Ratio	15.516	6	.017
Linear-by-Linear Association	7.442	1	.006
N of Valid Cases	50		

a. 8 cells (66.7%) have expected count less than 5. The minimum expected count is 1.68.



Do you examine your feet * Do you use corn remedies paint when you get acorn

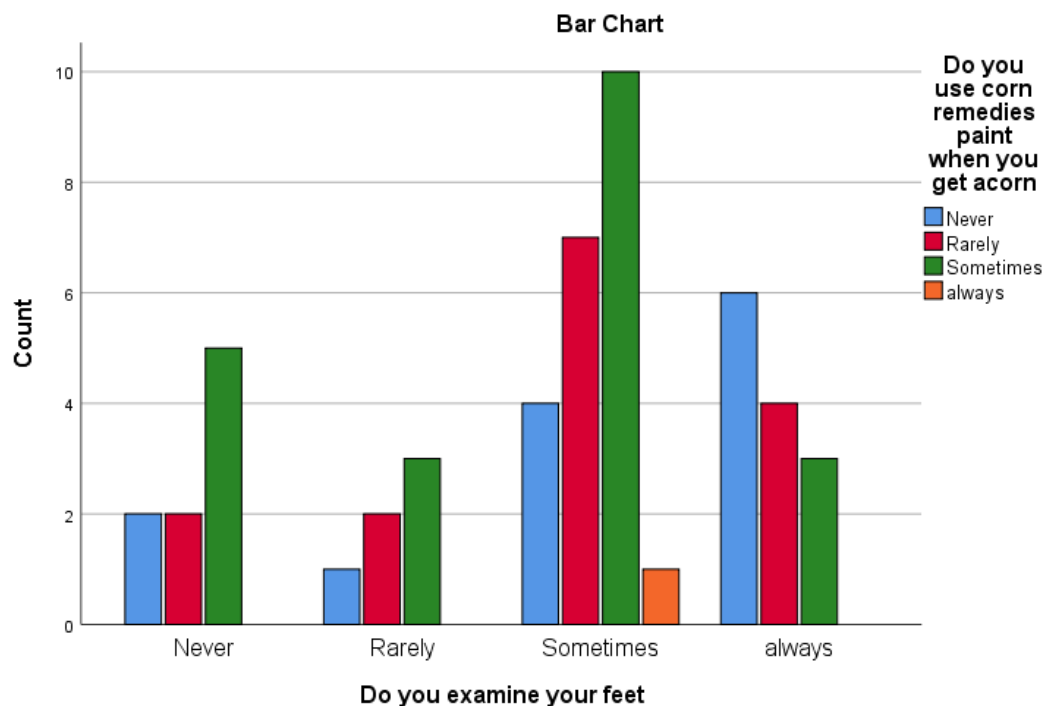
Crosstab

		Do you use corn remedies paint when you get acorn				Total
		Never	Rarely	Sometimes	always	
Do you examine your feet	Never	2	2	5	0	9
	Rarely	1	2	3	0	6
	Sometimes	4	7	10	1	22
	always	6	4	3	0	13
Total		13	15	21	1	50

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	5.958 ^a	9	.744
Likelihood Ratio	6.228	9	.717
Linear-by-Linear Association	2.005	1	.157
N of Valid Cases	50		

a. 12 cells (75.0%) have expected count less than 5. The minimum expected count is .12.



Do you examine your feet * Do you put a dyr dressing on a bilster when you get one

Crosstab

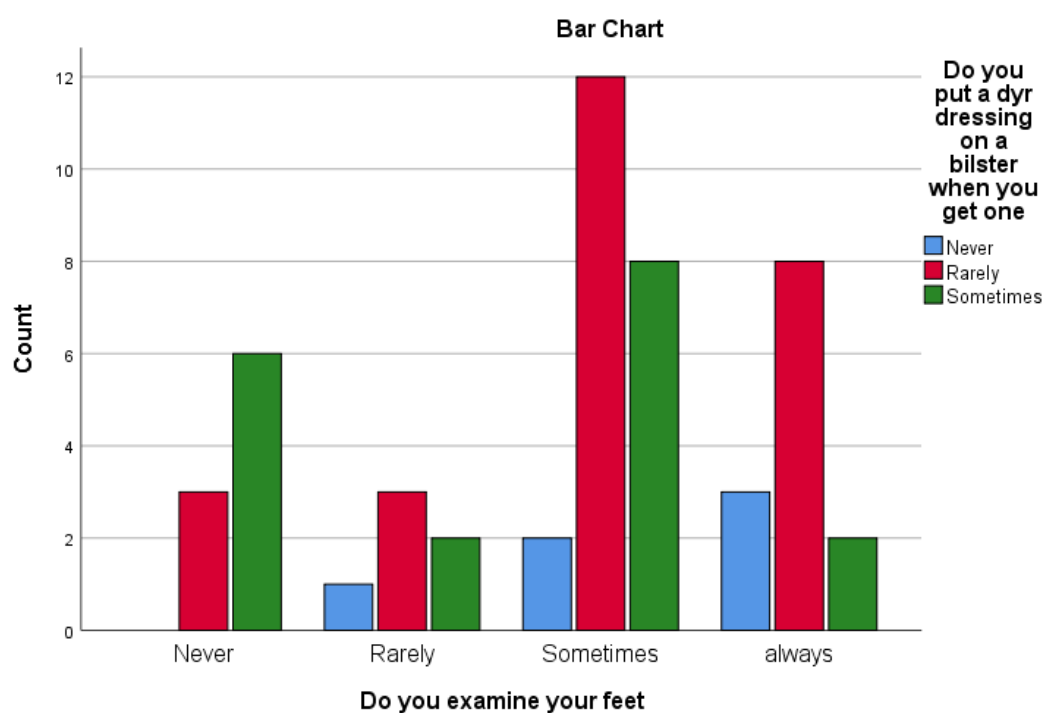
		Do you put a dyr dressing on a bilster when you get one			Count
		Never	Rarely	Sometimes	Total
Do you examine your feet	Never	0	3	6	9
	Rarely	1	3	2	6
	Sometimes	2	12	8	22
	always	3	8	2	13
Total		6	26	18	50

Chi-Square Tests

Value	df	Asymptotic Significance (2- sided)

Pearson Chi-Square	7.434 ^a	6	.283
Likelihood Ratio	8.255	6	.220
Linear-by-Linear Association	5.694	1	.017
N of Valid Cases	50		

a. 9 cells (75.0%) have expected count less than 5. The minimum expected count is .72.



Do you examine your feet * Do you put a dry dressing on a graze ,cut or burn when you get one

Crosstab

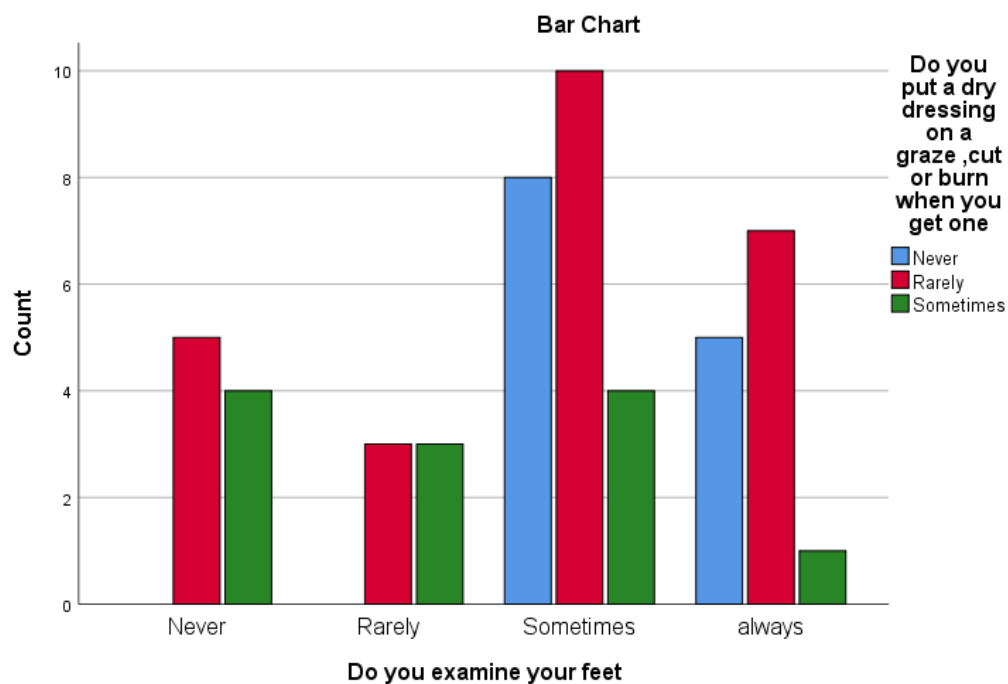
		Do you put a dry dressing on a graze ,cut or burn when you get one			Total
		Never	Rarely	Sometimes	
Do you examine your feet	Never	0	5	4	9
	Rarely	0	3	3	6
	Sometimes	8	10	4	22

Always	5	7	1	13
Total	13	25	12	50

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)
Pearson Chi-Square	10.778 ^a	6	.095
Likelihood Ratio	14.305	6	.026
Linear-by-Linear Association	8.642	1	.003
N of Valid Cases	50		

a. 8 cells (66.7%) have expected count less than 5. The minimum expected count is 1.44.



Reference

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