

Feng B, Srinivasan M, Hoffman JR, et al. Physician communication regarding prostate cancer screening: analysis of unannounced standardized patient visits. *Ann Fam Med.* 2013;11(4):315-323.

http://www.annfammed.org/content/11/4/315

Supplemental Appendix. Prostate Cancer Screening-Shared Decision-Making Scale

Items

- 1. The physician discusses the prostate cancer epidemiology with the patient.^a
 - a. The physician discusses incidence or prevalence of prostate cancer with patient.
 - b. The physician discusses risk factors for developing prostate cancer with the patient.
 - c. The physician discusses natural history of prostate cancer.
 - d. The physician discusses prostate cancer mortality information with the patient.
- 2. The physician asks the patient about the patient's prior personal experiences with prostate cancer or prostate cancer screening.^a
 - a. The physician asks the patient's own prior personal experience with prostate cancer or prostate cancer screening.
 - b. The physician asks the patient about any family history of prostate cancer.
 - c. The physician asks the patient about any other *indirect* prior personal experience with prostate cancer.
- 3. The physician asks the patient about the patient's knowledge of prostate cancer or prostate cancer screening.^a
- 4. The physician solicits the patient's concerns about having prostate cancer.^a
- 5. The physician explicitly informs the patient that there are controversies over prostate cancer screening.^a
- 6. The physician explains pros and cons of PSA screening. b,c
 - a. The physician describes the potential immediate and/or downstream benefits of doing the PSA screening tests.
 - b. The physician discusses problems with accuracy of PSA testing or other screening tests.
 - c. The physician discusses other immediate and/or downstream drawbacks of PSA screening.
- 7. The physician discusses more than one prostate cancer screening options. b,c
 - a. The physician mentioned rectal examination as an alternative screening option.
 - b. The physician mentioned watchful waiting/no screening as an alternative screening option.
- 8. The physician describes the pros and cons of rectal examination.^c
 - a. The physician describes the potential immediate and/or downstream benefits of rectal examination.
 - b. The physician describes the potential immediate and/or downstream drawbacks of rectal examination.
- 9. The physician describes the pros and cons of watchful waiting/no screening.c
 - a. The physician describes the potential immediate and/or downstream benefits of watchful waiting/no screening.
 - The physician describes the potential immediate and/or downstream drawbacks of watchful waiting/no screening.
- 10. The physician solicits the patient's concerns over having side effects of screening or subsequent tests and treatment.^c
- 11. The physician provides patient with information about next steps of prostate cancer screening.^a
 - a. The physician informs patient of what would be done if the PSA test was abnormal.
 - b. The physician discusses what would be done if the PSA test is normal.
- 12. The physician offers the patient explicit opportunities to ask questions during the decision-making process.
- 13. The physician explicitly checks if the patient has understood the information.^c
- 14. The physician discusses the patient's role in decision making.^c

Online Supplementary Data

http://www.annfammed.org/content/11/4/315/DC1

- a. The physician informs the patient of shared decision making or explains why the doctor needs to have this discussion.
- b. The physician elicits the patient's preferred level of involvement in decision making.
- 15. The physician assesses the patient's preferred approach to receiving information to assist decision making.^c
- 16. The physician explains to the patient that the screening decision needs to be made based on the patient's values. b
- 17. The physician indicates the need for a decision making (or deferring) stage. b,c
 - a. The physician tells patient to think about the options before deciding, even deferring the decision to another visit
 - b. The physician asks the patient about his/her decision about prostate cancer screening
 - c. The physician encourages the patient to seek input from others.
- 18. The physician offers to provide additional information to help patient make an informed decision.^a

PSA = prostate-specific antigen.

^a Items created by the authors based on the intervention tutorials and brochures from the Centers for Disease Control and Prevention on shared decision making and prostate cancer screening used in the current study.

^b Items adapted from the Kaplan scale.

c Items adapted from the OPTION scale.



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Supplemental Table 1. Primary Care Physician Behaviors in Provision of Information Around Prostate Cancer or Prostate Cancer Screening

Trostate cancer of frostate cancer screening	9		Intervention	Intervention
	Overall	Control	A	В
	(N = 118)	(n = 57)	(n = 33)	(n = 28)
Provision of Information	%	%	%	%
1. Discusses incidence or prevalence of prostate cancer	44	46	48	36
2. Discusses risk factors for prostate cancer	45	37	55	50
3. Discusses natural history of prostate cancer	53	51	55	54
4. Discusses mortality of prostate cancer	61	53	70	68
5. Discusses controversies of prostate cancer screening	49	39	64	54
6. Discusses benefits of PSA testing	87	88	85	89
7. Discusses problems with accuracy of prostate cancer screening	91	88	91	96
8. Discusses other drawbacks of PSA testing	70	60ª	79 ^b	82 ^b
9. Mentions no screening as an alternative	45	26ª	64 ^b	61 ^b
10. Mentions rectal examination as an alternative	87	93	76	89
11. Discusses benefits of rectal examination	58	63	45	64
12. Discusses drawbacks of rectal examination	34	32	39	32
13. Discusses benefits of watchful waiting/no screening	31	21	36	46
14. Discusses drawbacks of watchful waiting/no screening	31	32	24	36
15. Informs next steps following abnormal PSA level	78	70	82	89
16. Informs next steps following normal PSA level	24	26	15	29

PSA = prostate specific antigen.

Note: Percentage of physicians who provided information about around prostate cancer or prostate cancer screening, at least once during an unannounced standardized patient visit.

^{a,b} Within each row, percentages having different superscript letters differ statistically significantly from each other at P < .05; percentages having the same or without superscript letters do not differ statistically from others.



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Supplemental Table 2. Primary Care Physician Behaviors in Eliciting Patients' Perspectives
About Prostate Cancer or Prostate Cancer Screening

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Elic	itation of Patient Perspectives	Overall (N = 118) %	Control (n = 57)	Intervention A (n = 33) %	Intervention B (n = 28) %	
1.	Asks about patient's direct prior experience	46	53	42	36	
2.	Asks about patient's family history	47	40	61	46	
3.	Asks about patient's indirect personal experience	8	2 ^a	6ª	25 ^b	
4.	Asks about patient's knowledge	3	0	3	7	
5.	Asks about patient's concerns about having prostate cancer screening	7	2ª	15 ^b	7	
6.	Solicits concerns about having side effects from test or treatment	3	Oa	12 ^b	Oa	
7.	Offers opportunities to ask questions	13	12	15	11	
8.	Checks patient's understanding of information	25	19	33	25	
9.	Explains why shared decision making was necessary for prostate cancer screening	28	21	36	32	
10.	Elicits preferred level of involvement in decisions	0	0	0	0	
11.	Assesses patient's information receipt preferences	0	0	0	0	
12.	Asks patient about his decision	34	28	42	36	

Note: Percentage of physicians who inquired about their patient's perspective around prostate cancer or prostate cancer screening at least once during an unannounced standardized patient visit.

^{a,b} Within each row, percentages having different superscript letters differ statistically significantly from each other at P < .05; percentages having the same or without superscript letters do not differ statistically from others.



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Supplemental Table 3. Primary Care Physician Behaviors in Guiding Patient in Final Decision Making around Prostate Cancer Screening

Gu	iding Final Decision	Overall (N = 118) %	Control (n = 57)	Intervention A (n = 33)	Intervention B (n = 28) %
1.	Indicates that decisions should be based on patient's values	19	11ª	27 ^b	29 ^b
2.	Tells patient to think about options	51	39ª	61 ^b	64 ^b
3.	Encourages patient to seek input from others	16	7ª	21 ^b	29 ^b
4.	Offers to provide additional information	27	18ª	42 ^b	29 ^b

Note: Percentage of physicians who provided guidance for final decision making regarding prostate cancer screening at least once during an unannounced standardized patient visit.

^{a,b} Within each row, percentages having different superscript letters differ statistically significantly from each other at P < .05; percentages having the same or without superscript letters do not differ statistically from others.



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Supplemental Table 4. Summary of Primary Care Physician Behaviors in Shared Decision Making Around Prostate Cancer or Prostate Cancer Screening

Behavior	Range	Overall (N = 118) Mean	Control (n = 57) Mean	Intervention A (n = 33) Mean	Intervention B (n = 28) Mean
Overall shared decision-making prostate	0-32	12.2	10.7 ^b	13.5°	13.5°
cancer screening score ^a					
Provision of information ^a	0-16	8.9	8.2 ^b	9.3	9.8⁵
Elicitation of patient's perspectives ^a	0-12	2.1	1.8 ^b	2.7°	2.3
Guiding final decision	0-4	1.1	0.7 ^b	1.5°	1.5°

Note: Each item in the scale was given a value of 0 = did not occur, or 1 = occurred. Generalized linear mixed model analyses involving outcome variables controlled for health care network, physician site, physician age, sex, and ethnicity.

^a Comparisons controlled for physician baseline knowledge of prostate cancer and prostate cancer screening.

b.c Within each row, group means having different superscript letters differ statistically significantly from each other at P < .05; group means having the same or without superscript letters do not differ statistically from others.



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Supplemental Table 5. Summary of Physician Final Clinical Recommendations About Prostate
Cancer Screening After Prompting by Unannounced Standardized Patient

Recommendation	Overall (N = 118) %	Control (n = 57) %	Intervention A (n = 33) %	Intervention B (n = 28) %
Recommended in favor of prostate cancer screening	59	68	52	46
Recommended against prostate cancer screening	16	11	21	22
Made no recommendation	25	21	27	32
Physician stated that he or she would order a PSA blood test	45	60ª	33 ^b	29 ^b

PSA = prostate-specific antigen.

 $^{^{}a,b}$ Within each row, percentages having different superscript letters differ statistically significantly from each other at P < .01; percentages having the same or without superscript letters do not differ statistically from others.