

Cancer and sexual health: The continuum of care Albers, L.F.

Citation

Albers, L. F. (2021, April 7). *Cancer and sexual health: The continuum of care*. Retrieved from https://hdl.handle.net/1887/3151775

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Title: Cancer and sexual health: The continuum of care

Issue date: 2021-04-07

Appendix 2.

Questionnaire chapter 2

Questionnaire (translated from Dutch)

Part 1:	demographics
п	Male
П	
	1011010
1.	What is your age?years
2.	Which type of cancer did / do you have?
	□ Breast
	□ Prostate
	□ Gastro-intestinal
	□ Gynaecology
	□ Bladder and kidney
	☐ Head neck
	□ Skin
	☐ Male external genitalia
	□ Endocrinology
	□ Haematology
	□ Lung
	□ Bone
	□ Other:
3.	
	□ Local disease
	□ Metastatic disease
	□ I don't know
4.	How long ago were you diagnosed with cancer?
	□ Less than 2 ago
	3-5 years ago
	\Box 6 – 10 years ago
	☐ More than 10 years ago
	☐ I don't know
	□ I don t know
5.	Which treatment did you received? (multiple answers possible)
	□ None
	□ Surgery
	□ External radiotherapy
	□ Internal radiotherapy
	☐ Hormonal therapy
	□ Chemotherapy
	□ Immunotherany

□ Stem-cell therapy
□ Other:

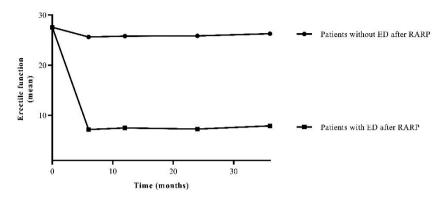
6. Did you actively search for information	rmation about intimacy and sexuality? (multiple answers possible)
	No
	Yes
7. Where did you search for inform	nation about intimacy and sexuality? (open question; not required)
8. Are you satisfied with the inform \Box	nation about intimacy and sexuality you found? Yes
	No
9. Why were(n't) you satisfied with	th the information? (open question; not required)
10. What kind of information regar	ding intimacy and sexuality do you prefer?
	I don't have a need for information now
	Practical tips
	Experiences from others
	Contact with other cancer patients
_	Practical information (prevalence and cause of sexuality issues)
	A referral to a professional
	Information for partners
	Information for care providers
	Information video's
	Other:
11. Did your intimacy or sexualit	y change due to the diagnosis cancer?
	No, it did not change
	Yes, it became better
П	Yes, it became worse
Ц	res, it became worse
12. As a result of cancer, what ki	nd of changes in sexuality or intimacy did you experience?
	Physical changes
	Psychological changes
	Changes self-image
	Other:
13. Which physical sexuality pro	blems did you experience? (multiple answers possible)
	I do not experience physical problems
	Pain during sexual intercourse
	Erection problems
	Dry mouth
	Lubrication problems
	Hormonal changes
	Fatigue
	Incontinence of urine or defecation
	Problems with ejaculation
	Unable to ejaculate
	Other:

14.	Which other intimacy or sex	ruality problems did you experience?
		I do not experience other problems
		I do not experience problems, but had to get used to the changes in
		sexuality
		No sexual arousal
		No sexual desire
		I am afraid to have sexual intercourse
		The character of my sexual relationship have changed a lot
		No sex drive
		My self-image has changed
		I feel deformed
		I think my partner experience difficulties with my changed body
		I think my partner do not have sexual desire
		I am afraid to approach my partner
		Other:
15.	How do you deal with sexua	ality and intimacy problems?
10.		I do nothing (skip question 17)
		I do not experience problems
		I discuss the problems with my (sexual) partner
		I discuss the problems with friends
		I discuss the problems with other patients
	_	I discuss the problems with my healthcare provider
		I seek for professional help by a sexologist/psychologist
	_	I used medication
		I used an aid
	_	I searched for information via internet
	_	I searched for information via a patient organization
		Other:
16.	What did help you to improve	we intimacy and sexuality, and why? (open question, not required)
17.	Why did you choose to do n	othing?
		I accepted the situation and I am fine with it
		I accepted the situation, but I am not fine with it
		I am afraid to hurt my partner, so I do not talk about the sexuality problems
		I do not dare to discuss my problems with anyone
		I do not think there is a solution
		I do not know where I can go for help
		I do not feel comfortable to discuss my problems with my health
		care provider
		The treatment I want is not covered by my health care insurance
		Survival is more important at this moment
		I thought, it was part of it
		Other:

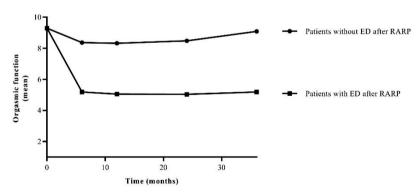
18. Could you explain why nothing helped you? (open question, not required)

19	You find some statements below. Choice one of the following answers by each statement.
	- Totally disagree
	- Disagree
	- Agree
	- Totally agree
	- Not applicable
	- I don't know
	a. I am satisfied with my sex life
	b. It is easy for me to discuss my thoughts and feelings about sex with my (sexual
	partner
	c. I do not have sexual desire anymore due to the cancerd. Intimacy between me and my partner was better before the cancer
	d. Intimacy between me and my partner was better before the cancere. My sex life was better before the cancer
	f. I have learned to deal with changes in sexuality
20	What do you recommend to other cancer patients with regard to (discussing) intimacy and sexuality? (open question, not required)
21	. What do you recommend to partners of cancer patients with regard to (discussing) intimacy and sexuality? (open question, not required)
22	. What do you recommend to health care providers with regard to discussing intimacy and sexuality
	☐ My health care provider should initiate the discussing about
	sexuality
	☐ My health care provider should provide information systematically
	☐ My health care provider should involve my partner when discussing
	sexuality
	☐ My health care provider should provide an referral to another
	specialist/sexologist in an approachable manner
	□ Other:
23	. What do you want to know about sexuality (after cancer), but never dared to ask?
Questions	about your relationship state
-	·
24	Do you have a relationship?
	□ No (skip question 26 and 27)
	□ Yes
	☐ I do not want to answer this question
25	Did you have the relationship already before you were diagnosed with cancer?
	□ Yes
	□ No
26	Partner of patients with cancer might suffer from intimacy and sexuality problems as well. Therefore, we would like to send a similar questionnaire the partners as well. May we approach your partner?
	□ No
	□ Yes
27	. Do you have additional comments? (not required)

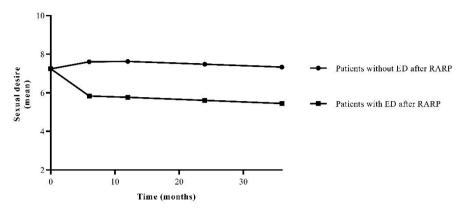
Appendix 3. Supplementary information (SI) chapter 3



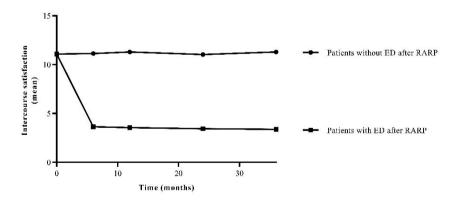
SI Figure 1: Erectile function score (range 1-30) (subdomain of IIEF-15)



SI Figure 2: Orgasmic function score (range 1-10) (subdomain of IIEF-15)



SI Figure 3: Sexual desire score (range 2-10) (subdomain of IIEF-15)



SI Figure 4: Intercourse satisfaction score (range 0-15) (subdomain of IIEF-15)

Appendix 4. Questionnaire chapter 4

Questionnaire (translated from Dutch)

Part	1:	demographics
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1. What is your gender?	
2. What is your age?	years
3. Which type of cancer did	/ do your partner have/had?
	Breast
	Prostate
	Gastro-intestinal
	Gynaecology
	Bladder and kidney
	Head neck
	Skin
	Male external genitalia
	Endocrinology
	Haematology
	Lung
	Bone
	Other:
4. Which stage of cancer did	/ do your partner have/had?
Which stage of cancer did	Local disease
	Metastatic disease
	I don't know
	1 don't know
5. How long ago was your pa	artner diagnosed with cancer?
	Less than 2 ago
	3 – 5 years ago
	6 – 10 years ago
	More than 10 years ago
	I don't know
(W/L:-1, tt	19 (
•	partner received? (multiple answers possible)
	None
	Surgery
	External radiotherapy
	Internal radiotherapy
	Hormonal therapy
	Chemotherapy
	Immunotherapy
	Stem-cell therapy
	Other:

7. Did you actively <i>possible</i>)	search for in	nformation about intimacy and sexuality after cancer? (multiple answers
1 /		No
		Yes
8. Are you satisfied	with the inf	formation about intimacy and sexuality you found?
•		Yes
		No
9. Where did you se	earch for inf	formation about intimacy and sexuality? (open question; not required)
10. Why were(n't)) you satisfie	ed with the information? (open question; not required)
11. What kind of ir	nformation r	regarding intimacy and sexuality do you prefer?
		I don't have a need for information now
		Practical tips
		Experiences from others
		Contact with other cancer patients
		Practical information (prevalence and cause of sexuality issues)
		A referral to a professional
		Information for partners
		Information for care providers
		Information videos
		Other:
12. Did your intimac	y or sexuali	ty in your relationship change due to the cancer of your partner?
,	_	No, it did not change
	_	Yes, it became better
		Yes, it became worse
13 As a result of can	ocer what ki	ind of changes in sexuality or intimacy did you experience?
15. 715 a result of can		Physical changes
	П	Psychological changes
		Both physical and psychological changes
	П	Changes in self-image
		Other:

14. Which physical s		blems did you experience? (multiple answers possible)
		We did not experience physical problems
		My partner experiences pain during sexual intercourse
		My partner experiences erection problems
		My partner experiences a dry mouth
		My partner experiences lubrication problems
		My partner experiences hormonal changes
		My partner is too fatigue to have sexual intercourse
		I am too fatigue to have sexual intercourse
		My partner has incontinence of urine or defecation
		My partners experiences problems with ejaculation
		My partner is unable to ejaculate
		Other:

15.	Which other intimacy or sexuali	ty problems did you experience?
		I do not experience other problems
		I do not experience problems, but have to get used the changes in sexuality
		My partner do not have sexual arousal
		I have no sexual desire
		My partner has no sexual desire
		I think my partner is too afraid to have sexual intercourse
		The character of our sexual relationship has changed a lot
		I have no sex drive
		The self-image of my partner has changed
		My partner thinks he/she is deformed
		I experience difficulties with the changed body of my partner
		I think my partner do not have sexual desire
		I am afraid to force my partner
		Other:
16	How do you doal with covuality	and intimacy problems?
10.	How do you deal with sexuality	I do nothing (skip question 17)
		I do not experience problems
	П	I discuss the problems with my (sexual) partner
	П	I discuss the problems with friends
		I discuss the problems with other patients
		I discuss the problems with my health care provider
	П	I seek for professional help by a sexologist/psychologist
		I used medication
		I used an aid
		I searched for information via internet
		I searched for information via a patient organization
		Other:
	What did help you to improve in Why did you choose to do nothi	ntimacy and sexuality, and why? (open question, not required)
10.		I accepted the situation and I am fine with it
		I accepted the situation, but I am not fine with it
		I am afraid to hurt my partner, so I do not talk about the sexuality problems
	П	I do not dare to discuss my problems with anyone
	П	I do not think there is a solution
	П	I do not know where I can go for help
	П	I do not feel comfortable to discuss my problems with my health
		care provider
		The treatment I want is not covered by my health care insurance
		Survival is more important at this moment
		I thought, it was part of it
		Other:
19.	Tell in your own words why no	thing did help you? (open question, not required)

- 20. You find some statements below. Choice one of the following answers by each statement.
 - Totally disagree
 - Disagree
 - Agree
 - Totally agree

- Not applicable
- I don't know

-

- g. I am satisfied with my sex life
- h. I am comfortable to discuss my thoughts and feelings about sex with my (sexual) partner
- i. I do not have sexual desire due to the cancer of my partner
- j. Intimacy between me and my partner was better before the cancer
- k. My sex life was better before the cancer
- 1. I have learned to deal with my changed sexuality
- 21. What do you recommend to others people dealing with cancer with regard to discussing intimacy and sexuality? (open question, not required)
- 22. What do you recommend to partners of cancer patients with regard to discussing intimacy and sexuality? (open question, not required)

23.	What do you recommend to heal	th care provider with regard to discussing intimacy and sexuality?
		My health care provider should initiate the discussing about
		sexuality
		My health care provider should provide information systematically
		My health care provider should involve my partner when discussing sexuality
		My health care provider should provide an referral to another specialist/sexologist in an approachable manner
		Other:

24. What do you want to know about sexuality (after cancer), but never dared to ask?

Appendix 5.

Questionnaire chapter 5, part 1

Questionnaire patient (translated from Dutch)

Choose the most suitable answer. Thank you in advance for your effort.

Part	1.	domo	ranhics

1.	What is your age?	years
2.	What is your ethnicy?	
		Dutch
		Other:
2	W/l-+:	
3.	What is your marital status?	Single
	П	In a relationship, living together
		In a relationship, not living together
		Married
		Widowed
		Other:
4.	If you are in a relationship, for	how long?
		years
5.	Level of education?	
		Elementary school
		Middle school
		High school
		College
		University
		Other:
6.	Are you currently employed?	
		Yes
		No, I am in between jobs
		No, not able to work due to my illness
		No, I am retired
		Other:
Parí	2: Diagnosis and treatment	
	2. 2. agnosis and deathlent	
7.	Which stage of breast cancer of	lo you have/had?
		A premalign stage (ductal carcinoma in situ)
		Breastcancer only in the breast itself
		With metastasis in the axilla(s)
		With metastasis elsewhere in the body
		·

8. How long ago were you diagnosed with breast cancer?

		0-3 months ago
		3 – 6 months ago
		6 months – 1 year ago
		1 – 2 years ago
		more than 2 ago
	Ц	more than 2 ago
9.	Which surgical treatments	s did you underwent? (multiple answers possible)
		No operation
		Breast conserving surgery
		Mastectomie, without construction of the breast
		Mastectomie, with direct construction of the breast
		Mastectomie, with secundary reconstruction of the breast
		Mastectomie of both breasts, without construction
		Mastectomie of both breasts, without direct construction
		Mastectomie of both breasts, without secundary construction
		Axillary lymph node dissection, one side
		Axillary lymph node dissection, both sides
10	D:1 : 1 :1	4 4 4 4 9 4 10 1 21 1
10.	•	surgery, other treatments? (multiple answers possible) No
		Radiotherapy after the operation Radiotherapy during the operation
	П	Chemotherapy before surgery
		Chemotherapy after surgery
		Endocrine therapy
		Immunotherapy (Herceptin)
11.	To what extent were you	concerned about your health when you heard the diagnosis breast cancer?
		No concerns
		Some concerns
		Many concerns
		Grave concerns
12.	Have your concerns chang	ges after treatment?
		Yes, my concerns are increased
		Yes, my concerns are declined
		No, my concerns didn't change
		No, I had no concerns
12	IC C	
13.	If you are breast cancer-if	ree, are you afraid that the breast cancer may come back?
		Inapplicable Not afraid
		A bit afraid
		Afraid Very afraid
		very arraid
	•	macy and sexuality after disease
14.	•	before the diagnosis breast cancer?
		Yes
		No
15.	Did you experience comp	laints in intimacy or sexuality before the diagnosis breastcancer?
		Yes, go to question 16
		No, go to question 18

16.	which intimacy or sexuality con	mpiaints did you nave! (multiple answers possible)
		Fatique
		Feel uncertain about my appearance
		Less intimacy with my partner
		No enjoying sex anymore
		No sex drive
		Difficulties with orgasms
		Pain during intercourse
		Insufficient lubrication
		Other:
17.	Did the intimacy or sexuality co	omplaints changes after the diagnosis of breast cancer?
		No, complaints didn't change
		Yes, complaints have disappeared
		Yes, complaints have declined
		Yes, complaints have increased
		Yes, complaints have changed
10	Are you after treatment covirell	vy activa?
10.	Are you after treatment sexuall	Yes
		No
19.	Did you experience new completor the treatment?	aints with regard to intimacy or sexuality due though the breast cancer
		Yes, go to question 20
		No, go to question 25
		No, go to question 25
20.	Which complaints did you expe	rience? (multiple answers possible)
		Fatique
		Feel uncertain about my appearance
		Feel uncertain about changes body image
		Less intimacy with my partner
		No enjoying sex anymore
		No sex drive
		Difficulties with orgasms
		Pain during intercourse
		Insufficient lubrication
		Menopausal complaints
		Other:
21.	On a scale of 0-10, in which am	ount did you suffer from these complaints?
	0 means n	o suffering, 10 means a lot of suffering
	Grade:	
22	Did one of vove thei-t-	offered view halm for those commiser-2
<i>LL</i> .	•	offered you help for these complaints?
		Yes, by advising tools (for example lubricant)
		Yes, by tips on other forms of intimacy
		Yes, other:
		No, go to question 25
23.	Were you satisfied with the help	you were offered?
		Yes
		No
24.	Are you referred, by your therap	pist, for your sexual of intimacy complaints?

		Yes, to:(for example other
		specialist or sexologist)
		No, but I would have wanted a referral
		No, I had no need of a referral Nee, ik had daar geen behoefte aan
Part 4: Iı	nformation about intimacy a	and sexuality
25.	Did you need information a	bout possible intimacy or sexuality complaints due to breast cancer and
	treatment?	······································
		Yes
		No
26.	Did you at some point receidue to treatment?	ve any information about intimacy and sexuality and possible complaints
		Yes, go to question 27
		No, go to question 31
27.	At what stage did you receipossible)	we the information about intimacy and sexuality? (multiple answers
		At the same time as the diagnosis breast cancer
		Before chemotherapy before surgery
		Before the operation
		After the operation
		Before the additional treatment*
		During the additional treatment
		At the end of all treatments
		Other:
	*With additional treat	ment is meant chemotherapy, radiotherapy and/or endocrine therapy
28.	Did you have to ask for info	ormation about intimacy or sexuality?
		Yes, I had to ask for this information by myself
		No, the care provider gave the information from
		No, it was clear to me where I could find information (for example flyer or on the web)
29	Who gave you the informat	ion about intimacy and sexuality? (multiple answers possible)
		General practitioner
		Surgeon
		Nurse on the breast cancer outpatient clinic
		Oncologist
		Radiotherapist
		Plastic surgeon
		Psychologist
		Sexologist
		Social worker
		Someone else:
30.	How did you receive inform	nation about intimacy and sexuality? (multiple answers possible)
		Patient flyer
		Via other (breast) cancer patients
		By an information moment for patients with breast cancer
		By Dutch Breast cancer Society (Borstkankervereniging Nederland) By Dutch Cancer Society (KWF Kankerbestrijding)
		By a web page about breast cancer and sexuality
		=) = r- r-Be access creams and certains

		In a conversation with a healthcare professional
		Other:
31.	•	information about intimacy and sexuality? (multiple answers possible)
		No, I didn't searched for information
		Yes, on the internet
		Yes, via Dutch Breast cancer Society (Borstkankervereniging
		Nederland)
		Yes, Dutch Cancer Society (KWF Kankerbestrijding)
		Yes, Via other (breast) cancer patients
		Yes, via family or friends
		Other:
22	A	
32.	•	ormation about intimacy and sexuality?
		Yes, go to question 34
		No, go to question 33
		Inapplicable, go to question 34
33.	What could have been better	about the information? (multiple answers possible)
- 1		The amount was insufficient
		The information was too general, it was not about my situation
		The content of the information was incorrect
		The moment of the information was too late
		The moment of informatie was too early
	П	I have asked for information, but I didn't receive any
		The healthcare professional should have given me the information
		I have no need for information
		Other:
34	What is according to you the	e best way of receiving information about intimacy and sexuality?
	(multiple answers possible)	o cook may or receiving micrimation account manuacy and containty.
		Patient flyer
		Via an application on a tablet or phone (E-health)
	П	By a web page about breast cancer and sexuality
	_	·
		By Dutch Breast cancer Society (Borstkankervereniging Nederland)
		By Dutch Cancer Society (KWF Kankerbestrijding)
		By a patient forum on the internet
		By a group meeting with other patients lead by a healthcare professionals
	П	In a conversation with other (breast) cancer patients
		In a conversation with a healthcare professional
		None, I have no need for information
		Other:
		Oulet.
35.	At which moment, during trea	atment, would you prefer to receive information about intimacy and
	sexuality? (multiple answers	
		At the same time as the diagnosis breast cancer
		Before chemotherapy before surgery
		Before the operation
		After the operation
		Before the additional treatment*
		During the additional treatment
		At the end of all treatments
		Other:

^{*}With additional treatment is meant chemotherapy, radiotherapy and/or endocrine therapy

Part 5: Discussing intimacy and sexuality with a healthcare professional

		Me
		My partner
		General practitioner
		Surgeon
		Nurse on the breast cancer outpatient clinic
		Oncologist
		Radiotherapist
		Plastic surgeon
		I don't want to discuss the subject
		Other:
7. With which h		essional would you prefer discussing intimacy and sexuality? (multiple
unis i e i s possi.		General practitioner
		Surgeon
		Nurse on the breast cancer outpatient clinic
		Oncologist Cancer Campation Comme
	_	Radiotherapist
		Plastic surgeon
		Psychologist
		Sexologist
		•
		Social worker
		Social worker I don't want to discuss the subject with a health care professional
	you a reason <u>n</u>	I don't want to discuss the subject with a health care professional Other: ot to start a conversation about intimacy and sexuality with a health care
		I don't want to discuss the subject with a health care professional Other: ot to start a conversation about intimacy and sexuality with a health care
	you a reason <u>n</u> (multiple answ	I don't want to discuss the subject with a health care professional Other: oot to start a conversation about intimacy and sexuality with a health care ers possible)
	you a reason <u>n</u> (multiple answ	I don't want to discuss the subject with a health care professional Other: out to start a conversation about intimacy and sexuality with a health care ers possible) Inapplicable, I did ask my questions about intimacy and sexuality
	you a reason <u>n</u> (multiple answ	I don't want to discuss the subject with a health care professional Other:
	you a reason <u>n</u> (multiple answ	I don't want to discuss the subject with a health care professional Other:
	you a reason <u>n</u> (multiple answ	I don't want to discuss the subject with a health care professional Other:
	you a reason <u>n</u> (multiple answ	I don't want to discuss the subject with a health care professional Other:
	you a reason n	I don't want to discuss the subject with a health care professional Other:
	you a reason <u>n</u> (multiple answ	I don't want to discuss the subject with a health care professional Other:
	you a reason n	I don't want to discuss the subject with a health care professional Other:
	you a reason n (multiple answ	I don't want to discuss the subject with a health care professional Other:
	you a reason n (multiple answ	I don't want to discuss the subject with a health care professional Other:
	you a reason n (multiple answ	I don't want to discuss the subject with a health care professional Other:
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	you a reason <u>n</u> (multiple answ	I don't want to discuss the subject with a health care professional Other:
	you a reason n (multiple answ	I don't want to discuss the subject with a health care professional Other:
	you a reason <u>n</u> (multiple answ	I don't want to discuss the subject with a health care professional Other:
	you a reason <u>n</u> (multiple answ	I don't want to discuss the subject with a health care professional Other:

Agree

		Disagree
		I don't know
40.	Statement: : Every breast cancer	patient should offered a conversation about intimacy and sexuality,
	during treatment.	
		Agree
		Disagree
		I don't know
41.	•	patient should offered a conversation about intimacy and sexuality,
	after treatment.	
		Agree
		Disagree
		I don't know
42.	At which state of treatment would possible)	d you prefer to talk about intimacy and sexuality? (multiple answers
		At the same time as the diagnosis breast cancer
		Before chemotherapy before surgery
		Before the operation
		After the operation
		Before the additional treatment*
		During the additional treatment
		At the end of all treatments
		I don't want to discuss the subject
		Other:
Resu	lts of this research	
43.		other patients on intimacy and sexuality after breast cancer? The
	results of this research will be dis	· · · · · · · · · · · · · · · · · · ·
		Yes
		No
44.	In response to this research, we a intimacy and sexuality. Might we	are willing to invite patients for an individual conversation about a invite you for a conversation?
		Yes
		No
D 460		
Part 6: Q	uestions about your relationship	
If you did	n't have a partner at time of bro	east cancer or treatment, then you completed the questionnaire.
45.	I have a relationship with a:	
		Man
		Woman
46.	Did you have a relationship befo	re you were diagnosed with breast cancer?
		Yes, go to question 48
		No, go to question 52
47.	Did the diagnosis breast cancer	had an impact on the quality of the relationship with your partner?
		Yes, the quality increased
		Yes, the quality declined
		Yes, my relationship is broken
		No, the quality didn't change

48.	Did body changes as a re relationship with your par	sult of the breast cancer treatment had an impact on the quality of the ther?
		Yes, the quality increased
		Yes, the quality declined
		Yes, my relationship is broken
		No, the quality didn't change
		No, my body didn't change
49.	Did new complaints on intimacy your partner?	or sexuality had an impact on the quality of the relationship with
		No impact
		Negative impact
		Positive impact
		Inapplicable, I don't had any complaints
50.	Did you discuss possible effects partner?	of the breast cancer treatment on intimacy and sexuality with your
		Yes
		No, but I would have liked to discuss it
		No, no need to
51.	Is it important to you that your p with a healthcare professional?	partner is present when discussing the subject intimacy and sexuality
		Yes
		No
52.	Statement: The partner of every and sexuality.	breast cancer patient should be offered a conversation about intimacy Agree
		Disagree
		I don't know
53.	How would your partner suppor (multiple answers possible)	t you with possible complaints in the area of intimacy and sexuality? By exerting as few pressure as possible on sexuality
		To talk about sexuality
		To reassure me when a sexual attempt contact fails
		By not losing intimacy
	_	To be involved as much as possible with my sexual complaints
		By discovering intimacy and sexuality in another wayI don't know
		Inapplicable, I don't had any complaints
		Other:
54.	How do you plan to support you sexuality? (multiple answers pos	or partner with possible complaints in the area of intimacy and ssible)
		To talk about sexuality
		By not losing intimacy
		To involve my partner as much as possible by my sexual complaints
		By discovering intimacy and sexuality in another way
		Inapplicable, I don't had any complaints
		I don't know
		Other:

55. Would you have liked to receive professional help with complaints on intimacy or sexuality?

Yes
No
Inapplicable, I don't had any complain

56. Please check the box which is most applicable to you

	Totally disagree	Disagree	Neutral	Agree	Totally agree
My partner and I can talk well about our mutual feelings					
2. I often take the time to listen to my partner					
3. My partner and I can discuss everything					
4. We try to resolve disagreements with a calm conversation					
5. Disagreements often lead to an argument					
6. My partner tend to boss me					
7. I would like to have sex more often with my partner					
8. My partner and I can talk easily about our sexual desires and needs					
9. I am satisfied with our sex life					
10. I have a good relationship with my partner					
11. I am felling annoyed with my partner					
12. I am happy with my partner					

Thank you for participating in this research.

You can return the questionnaire to attached envelope (no stamp required).

Appendix 6.

Questionnaire chapter 5, part 2

Questionnaire partner (translated from Dutch)

Choose the most suitable answer. Thank you in advance for your effort.

Part 1: de	emographics	
1.	What is your age?	years
2.	What is your ethnicy?	
		Dutch
		Other:
3.	What is your gender?	
		Male
		Female
4.	Level of education?	
		Elementary school
		Middle school
		High school
		College
		University
		Other:
5.	Are you currently employed?	
		Yes
		No, I am in between jobs
		No, not able to work due to my illness
		No, I am retired
		Other:
Part 2: D	iagnosis and treatment	
6.	Did you already have a relation	aship before she was diagnosed with breast cancer?
٠.		Yes, go to question 7
		No, go to question 11
7.	To what extent were you conce	erned about your health when you heard the diagnosis breast cancer?
		No concerns
		Some concerns
		Many concerns
		Grave concerns
8.	Have your concerns changes <u>a</u>	fter treatment?
		Yes, my concerns are increased
		Yes, my concerns are declined
		No, my concerns didn't change
		No, I had no concerns

9. Did the diagnosis breast cancer had an impact on the quality of the relationship with your partner?

Yes, the quality increased Yes, the quality declined

		Yes, my relationship is broken
		No, the quality didn't change
	_	,
10	D:11 1 1	1. 64 1
10.	• 0	sult of the breast cancer treatment had an impact on the quality of the
	relationship with your par	tner?
		Yes, the quality increased
	П	Yes, the quality declined
	_	
		Yes, my relationship is broken
		No, the quality didn't change
		No, my body didn't change
11.	If your partner is breast cancer-f	ree, are you afraid that the breast cancer may come back?
	J	Inapplicable
		Not afraid
		A bit afraid
		Afraid
		Very afraid
		•
Part 3: Yo	our experience about intimacy a	and sexuality after disease
		•
10	D:1 1: '11 66 .	04 1 1 11 14
	*	of the breast cancer treatment on intimacy and sexuality with your
partn	er?	
		Yes
	П	No, but I would have liked to discuss it
	П	No, no need to
		110, no need to
1.2	D:1	
13.	Did you experience complaints i	n intimacy or sexuality before the diagnosis breastcancer?
		Yes, go to question 14
		No, go to question 17
14	Did new complaints on intimacy	or sexuality had an impact on the quality of the relationship with
		of sexuality had all impact on the quality of the relationship with
youi	partner?	AT 1
		No impact
		Negative impact
		Positive impact
	П	Inapplicable, I don't had any complaints
	_	
1.5	On a saala of 0 10 in which am	overt did von auffan fram thaas sammlaints?
13.		ount did you suffer from these complaints?
		o suffering, 10 means a lot of suffering
	Grade:	
16	To what extent did you find it di	fficult to handle changes in intimacy and sexuality within your
10.	-	inicult to handle changes in intimacy and sexuanty within your
	relationship?	N. 1100 1.1
		No difficulties
		A little difficult
		Difficult
		Very difficult
	_	very unincuit

Part 4: Information about intimacy and sexuality

17. Did you need information about possible intimacy or sexuality complaints due to breast cancer and treatment?

		1 65
		No
	Did you at some point receive ar due to treatment of your partner?	ry information about intimacy and sexuality and possible complaints
		Yes, go to question 19
	_	No, go to question 23
	At what stage did you receive th possible)	e information about intimacy and sexuality? (multiple answers
		At the same time as the diagnosis breast cancer
		Before chemotherapy before surgery
		Before the operation
		After the operation
		Before the additional treatment*
		During the additional treatment
		At the end of all treatments
		Other:
20.	Did you have to ask for informat	ion about intimacy or sexuality?
		Yes, I had to ask for this information by myself
		No, the care provider gave the information from
		No, it was clear to me where I could find information (for example a
		flyer or on the web)
21	Who gave you the information a	bout intimacy and sexuality? (multiple answers possible)
		General practitioner
		Surgeon
		Nurse on the breast cancer outpatient clinic
		Oncologist
		Radiotherapist
		Plastic surgeon
		Psychologist
	_	Sexologist
		Social worker
		Someone else:
22.	·	n about intimacy and sexuality? (multiple answers possible)
		Patient flyer Via other (breast) cancer patients
		By an information moment for patients with breast cancer
		By Dutch Breast cancer Society (Borstkankervereniging Nederland)
		By Dutch Cancer Society (KWF Kankerbestrijding)
		By a web page about breast cancer and sexuality
		In a conversation with a healthcare professional
		Other:
		oner.
23.	Did you actively searched for in:	formation about intimacy and sexuality? (multiple answers possible)
		No, I didn't searched for information
		Yes, on the internet
		Yes, via Dutch Breast cancer Society (Borstkankervereniging
		Nederland)
		Yes, Dutch Cancer Society (KWF Kankerbestrijding)
		Yes, Via other (breast) cancer patients
		Yes, via family or friends
		Other:

	24.	Are you satisfied with the inform	ation about intimacy and sexuality?
			Yes, go to question 26
			No, go to question 25
			Inapplicable, go to question 26
	25.	What could have been better about	ut the information? (multiple answers possible)
			The amount was insufficient
			The information was too general, it was not about my situation
			The content of the information was incorrect
			The moment of the information was too late
			The moment of informatie was too early
			I have asked for information, but I didn't receive any
			The healthcare professional should have given me the information
			I have no need for information
			Other:
	26	What is according to you the be	st way of receiving information about intimacy and sexuality?
		(multiple answers possible)	or way or receiving information accus internacy and containing i
		(Patient flyer
			Via an application on a tablet or phone (E-health)
			By a web page about breast cancer and sexuality
			By Dutch Breast cancer Society (Borstkankervereniging Nederland)
			By Dutch Cancer Society (KWF Kankerbestrijding)
			By a patient forum on the internet
			By a group meeting with other patients lead by a healthcare
		_	professionals
			In a conversation with other (breast) cancer patients
			In a conversation with a healthcare professional
			None, I have no need for information
			Other:
	2.7	At which moment, during treatme	ent, would you prefer to receive information about intimacy and
		sexuality? (multiple answers pos	
			At the same time as the diagnosis breast cancer
			Before chemotherapy before surgery
			Before the operation
			After the operation
			Before the additional treatment*
			During the additional treatment
			At the end of all treatments
			Other:
Part :	5: D	iscussing intimacy and sexuality	with a healthcare professional
	28.	Is it important to you that you are	e present when the subject intimacy and sexuality is discussed by a
		healthcare professional?	
			Yes
			No
	29.	Statement: The partner of every	breast cancer patient should be offered a conversation about
		intimacy and sexuality.	r
			Agree
			Disagree
		_	$\boldsymbol{\varepsilon}$

		I don't know
30	With which health care profes	ssional would you prefer discussing intimacy and sexuality? (multiple
50.	answers possible)	sional would you protes discussing intimacy and sexuality: (multiple
		General practitioner
		Surgeon
		Nurse on the breast cancer outpatient clinic
		Oncologist
		· ·
		Radiotherapist
		Plastic surgeon
		Psychologist
		Sexologist
		Social worker
		I don't want to discuss the subject with a health care professional
		Other:
31.	At which state of treatment we possible)	ould you prefer to talk about intimacy and sexuality? (multiple answers
		At the same time as the diagnosis breast cancer
		Before chemotherapy before surgery
		Before the operation
		After the operation
		Before the additional treatment*
		During the additional treatment
		At the end of all treatments
		I don't want to discuss the subject
		Other:
32.		ive professional help with complaints on intimacy or sexuality? Yes No Inapplicable I don't had any complaints
		Inapplicable, I don't had any complaints
	uestions about your relations! How would your partner supp (multiple answers possible)	hip ort you with possible complaints in the area of intimacy and sexuality?
		By exerting as few pressure as possible on sexuality
		To talk about sexuality
		To reassure me when a sexual attempt Door gerust te stellen als een
		poging tot seksueel contact fails
		By not losing intimacy
		To be involved as much as possible with my sexual complaints
		By discovering intimacy and sexuality in another wayI don't know
		Inapplicable, I don't had any complaints
		Other:
34.	How do you plan to support y sexuality? (multiple answers p	our partner with possible complaints in the area of intimacy and possible)
		To talk about sexuality
		By not losing intimacy
	П	To involve my partner as much as possible by my sexual complaints

Part

	1		I	1	1
	Totally disagree	Disagree	Neutral	Agree	Totally agree
My partner and I can talk well					
about our mutual feelings					
2. I often take the time to listen to my					
partner					
3. My partner and I can discuss					
everything					
4. We try to resolve disagreements					
with a calm conversation					
5. Disagreements often lead to an					
argument					
6. My partner tend to boss me					
7. I would like to have sex more often					
with my partner					
8. My partner and I can talk easily					
about our sexual desires and needs					
9. I am satisfied with our sex life					
10. I have a good relationship with my					
partner					
11. I am felling annoyed with my					
partner					
12. I am happy with my partner					
	sussed anonym Yes		d sexuality	after brea	ist cancer
	No				
37. In response to this research, we are intimacy and sexuality. Might we i				ual conve	ersation a
	res	. 55111 615411011			
	lo lo				

Name/address/email

You can return the questionnaire to attached envelope (no stamp required).

Thank you for participating in this research.

By discovering intimacy and sexuality in another way

Inapplicable, I don't had any complaints

Appendix 7. Questionnaire chapter 6

Questionnaire medical oncologists (translated from Dutch).

Demograp	phics
1.	What is your gender? M/F
2.	What is your age? years
3.	What is your function?
	 □ Oncologist □ Haematologist □ Oncologist-in-training (resident) □ Haematologist-in-training (resident)
4.	What is/are your area(s) of specialization? Breast Colorectal Gynaecology Hematology Head and neck Dermatology Lung Lymphoma Nephro- and urology Neuro-endocrine Sarcoma Palliative care Other:
5.	Where do you work?
	 □ Academic hospital □ District general teaching hospital □ District general hospital □ Cancer institute □ Academic and district general teaching hospital or district general hospital
6.	How long do you practice as an oncologist?
	 ☐ < 1 year ☐ 1-2 year ☐ 3-5 year ☐ 6-10 year ☐ 11-15 year ☐ > 15 year Sexual function
7.	In your current workplace, which percentage of the patients do you estimate to experience changed sexual function due to the rapy $\%$

8.	How often do you di	scuss the sexual function of the patient?
		Never / almost never In fewer than half of the cases In half of the cases In more than half of the cases Almost always / always
9.		of patients about the possible consequences of therapy (informed consent), do t the possible consequences on sexual functioning?
		Never / almost never In fewer than half of the cases In half of the cases In more than half of the cases Almost always / always
10.	How often do you be	lieve the oncology nurse discusses sexual function with patients?
		Never / almost never In fewer than half of the cases In half of the cases In more than half of the cases Almost always / always
11.	Who has the respons	ibility for discussing sexual function? (multiple answers possible)
		The patient has to raise the subject by itself. The partner of the patient Oncologist Oncology nurse General practitioner Social work Psychologist Physical therapist Other:
If you nev	er discuss sexual func	tion, go to question 22.
1	2. If you discuss sexual Patients with:	al function, with which patients would you do so? (multiple answers possible)
		Breast tumours Colorectal tumours Gynaecology tumours Hematology tumours Head and neck tumours Skin tumours Lung tumours Lymphoma Nephrologic tumours Neuro-endocrine tumours Urologic tumours Sarcoma Palliative care Independent of tumour type I don't discuss sexual function
		Other:

13. With which type of treatment patients do you discuss sexual function? (multiple answers possible)							
		Life-prole Palliative	it with intent to onging treatmen treatment.				
	Could you please den		ubsequent table	how often you	ı discuss sexual t	function with	patients
			Never	Rarely	Regularly	Often	
	16-35 year						
	36-50 year						
	51-65 year						
	66-75 year						
	76 year and older						
sup	15. Which percentage of your patients did you refer in the past year to a physician or other professional for support of sexual problems or for answering question concerning sexual function?% 16. How often present patients sexual functioning complaints spontaneously? Never/ rarely In fewer than half of the cases In half of the cases In more than half of the cases Often/ always						
17.	17. How often do you make sure that sexual function is discussed with a new patient? Never/ rarely In fewer than half of the cases In half of the cases In more than half of the cases						
18.	□ How much knowledg	Often/ alv se do you po		dysfunction re	esulting from car	ncer treatmen	t?
		Not so mo Some kno Sufficient	ledge at all uch knowledge owledge t knowledge mowledge				
19.	In which way do you	discuss the	subject? (multi	ple answers po	essible)		
		Patient ra	k for it but I tel ises the subject ng possible sexu uestions				

	Open questions Ask if the patient has questions about it
	Use a sense of humour I hardly or never discuss the subject.
20. If you discuss sexu	al functioning, what do you ask a female patient? (multiple answers possible)
	Fatigue
	Fear
	Not being able to enjoy
	Decreased libido Insufficient lubrication
	Dyspareunia
	Reaching an orgasm
	Insecurity due to changed self-concept
	Insecurity due to changed appearance
	Menopause symptoms
	Sexual abuse
	Other:
21. What do you ask a	male patient? (multiple answers possible)
	8
	Fear
	Not being able to enjoy
	Decreased libido Erectile dysfunction
	•
	Other:
22. Do you discuss sex	ual function during follow-up?
	Never/ rarely
	In fewer than half of the cases
	In half of the cases
	In more than half of the cases
	Often/ always
23. Do you ever descri dysfunction?	be phosphodiesterase inhibitor (Viagra or Cialis) to patients with erectile
	Never/ rarely
	In fewer than half of the cases
	In half of the cases
	In more than half of the cases
	Often/ always
24. Is in your depart with?	tment sufficient information on sexual function available to provide the patient
	Yes
	No
	I don't know
25. If you discuss sexua lesbienne, bisexua	al function, do you ask for the sexual orientation of the patient? (Homosexual, 1!?)

	Never/ rarely In fewer than half of the cases In half of the cases In more than half of the cases Often/ always
intercourse? (i.e. n testis-, penis- or ce	Never/ rarely In fewer than half of the cases
27.Are problems on sex	ual function of the patients discussed during the multidisciplinary meetings?
	Yes No
28.Is it from your depart	tment or from a protocol an obligation to discuss sexual function at any time?
	Yes No I don't know
29.Is it from your depart	tment clear who is responsible to discuss sexual function with the patient?
_	Yes No I don't know
30.If you discuss sexual partner during inte	function, do you discuss the possible transmitting of chemotherapy agents to the reourse?
	Never/ rarely In fewer than half of the cases In half of the cases In more than half of the cases Often/ always
	ele are reasons that possibly keep you from discussing sexual function with your

patients. To which extent do you agree with the statements? Please circle one square per statement.

	Totally disagree	Disagree	Partly agree/partly disagree	Agree	Totally agree
Lack of time					
Lack of knowledge					
Lack of training					
It is someone else's task					

	1	1	1	
Patient is not ready to				
discussing sexual health				
Surviving is more				
important				
Concerned about causing				
Concerned about causing				
the patient discomfort				
Reasons related to				
culture/religion				
S				
Reasons related to				
language/ethnicity				
Age difference between				
you and patient				
Afraid to offend the patient		İ		
7 maid to offend the patient				
g 11:				
Sexuality is not a patient's				
concern				
Not relevant for all type of				
cancers				
Patient is the opposite				
gender				
No angle or motive for				
asking				
Embarrassment				
Advanced age of the				
patient				
patient				
G 1:: : : :				
Sexuality is a private				
matter				
I feel uncomfortable				
Patient is too ill				
1 actor 15 too III				
200				
Patient is the same gender				
Patient doesn't bring up				
the subject				
500,000				
No confidence in twenty				
No confidence in treatment				
for sexual dysfunction				
Sexuality is not a matter of				
life or death				
		l		

Colleagues think it is inappropriate if I discuss SF with patients					
Presence of a third party					
32. The oncologist carrie	s responsibility for di	scussing sexua	al function with pa	tients.	
	Totally agree Agree Disagree Totally disagree I don't know				
33. The oncology nurse	carries responsibility	for discussing	sexual function w	ith patient	s.
	Totally disagree				
34.Do you think it is imp	portant to screen for s	exual concern	s of cancer patients	s?	
35. With which patients of answers possible)	Very important Important Rather important Slightly important Not important	function shou	ld be discussed at	least once	? (multiple
Patients with:					
	Breast tumours Colorectal tumours Gynaecology tumour Hematology tumour Head and neck tumours Skin tumours Lung tumours Lymphoma Nephrologic tumour Neuro-endocrine tur Urologic tumours Sarcoma Palliative care Independent of tumour I believe discussing Other:	es purs rs mours our type sexual function			41
36.Do you believe there oncology training?	is enough attention for	or sexual probl	ems and counselli	ng during	the current
	Yes				

37.Do you feel the need	to extent your knowledge on discussing sexual function with your patients?
	Yes No
(Questions on fertility assessment not been used for this research p	nt were located in this area but have been removed in this Appendix as they hav roposal)

Thank you very much for participating!

Q

Questionnaire AYAs (translated from Dutch).				
Part 1: Demographics 1. What is your age? years				
2. What is your gender? Male Female				
3. Are you in a relationship? No, I am single, continue with question 5 Yes, living apart, continue with question 4 Yes, living together, continue with question 4 Yes, married, continue with question 4 Other,				
4. If you are in a relationship, for how long? years				
5. Do you have children? ☐ Yes ☐ No				
6. What is your highest level of education? None/primary education Lower vocational education (VMBO/MAVO/LBO) Intermediate vocational education (MBO) Higher secondary education (HAVO/VWO) Higher education (HBO/WO)				
7. Do you have a job? Yes, hours per week (average) No, job seeking No, not possible due to illness No, I am a student Other,				
Part 2: Diagnosis and treatment 8. What type of cancer do/did you have? Brain cancer Breast cancer Colorectal cancer Gynaecological cancer Hematological cancer Sarcoma Skin cancer Testicular cancer Thyroid cancer Other,				
9. How long ago did you receive your diagnosis? □ 0-3 months □ 3-6 months				

		6 months - 1 year
		1-2 years
		2-4 years
		5-10 years
		>10 years
		•
10.	How old were you w	hen you received your diagnosis? years
11.	What treatments did	you undergo? (multiple answers possible)
		Chemotherapy
		Hormonal therapy
		Immunotherapy
		Operation
		Radiotherapy
Part 3. Pa	erception of intimacy	and savuality
14103.10	recption of intimacy	and scaulity
12.	Did your disease or tr	reatment have a negative influence on your sexuality?
		Yes, continue with question 13
		No, continue with question 15
13.	Which of the items b	elow has (temporarily) influenced your sexuality? (multiple answers possible)
10.		Difficulty with orgasm
		Emotional lability
		Erectile dysfunction
		Fatigue
		Fear around sex
		Fertility issues
		Less sexual desire
		Lower lubrication
		No more pleasure from sex
		Pain during intercourse
		Scared to disappoint partner
		Self-uncertainty due to changed appearance
		Self-uncertainty due to changed self-image
		Other,
14.	Do you find it difficu	lt to deal with changes around your sexuality?
		Not difficult
		Slightly difficult
		Difficult
	Ш	Very difficult
D4 4 - P		t. 4t
15.		on intimacy and sexuality and that good information is available about the possible effects of the treatment
13.	on sexuality?	and that good information is available about the possible effects of the treatment
		Important
		Not important
		Impartial
		•

16. Did you ever receive information from a health care professional about the effects of the disease and treatment on sexuality?

		Yes No, continue with question 23
1		
1	8. Did you have to:	,
19.		ofessional provided you with the information about intimacy and ple answers possible) Physician
		Nurse practitioner Nurse in the department Psychologist
		Social worker
20.	How did you receive	Via an organised meeting at the hospital Via a general website Via the AYA website/'Young and Cancer' platform Via social media
21.	Were your parents pr	esent when you received information about intimacy and sexuality? Yes No, continue with question 23
22.	If your parents were p	present, what did you think of that? Uncomfortable Annoying No problem Reassuring Easy Fine
23.	Did you ever actively	v search for information? (multiple answers possible) No, I did not search for information Yes, directly via the AYA website (www.aya4net.nl) Yes, directly via the website www.kankerenseks.nl Yes, via social media Yes, via fellow AYAs Yes, via family/friends/acquaintances Other,

24.	What could be impro	ved about the information on intimacy and sexuality? (multiple answers possible)
		Nothing, I was satisfied with the information
		The amount of information did not suffice
		The information was too general, it was not about my situation
		The content of the information was wrong
		The moment of information supply was too late
		The moment of information supply was too early
		I asked for information, but did not receive any
		The health care professional should have provided me with the
		information
		Other,
25.	answers possible)	ion, the best way to receive information on intimacy and sexuality? (multiple
		Via leaflets
		Via a website
		Via (online) videos
		Via an online forum or blog
		Via group sessions with fellow AYAs, guided by a psychologist
		Via an app
		Via social media - cross out which you would not use: Facebook, Instagram, Pinterest, Twitter
		Via a conversation with fellow AYAs
		Via a conversation with a health care professional
		I do not need information
		Other,
26.	of the disease and tre	(s) would, in your opinion, be most suited to receive information about the effects atment on intimacy and sexuality? (multiple answers possible) Before treatment During treatment After treatment 3 months after treatment 6 months after treatment 9 months after treatment 1 year after treatment Other,
	•	nd sexuality with the health care professional
27.		imacy and sexuality sufficiently been discussed by the health care professional?
		Yes
		No, but I have/had the need to talk about it No, but I do/did not have the need to talk about it
		no, but I do/did not have the need to talk about it
28.	Who is, in your opini	on, most suited to discuss intimacy and sexuality with?
		My partner
		Physician
		Nurse practitioner
		Nurse in the department
		Psychologist
		Sexologist
		Social worker
		I rather discuss it anonymously
		Other,

29. If intimacy and sexuality were not discuss with the health care professional yourses N/A, I did initiated I do not want to the Feeling of shame Intimacy and sex I am too sick to do Nothing can be down Intimacy and sex I rather discuss it I do not have a part I he health care portate the age of the health care portate The health care portate The age of the health care portate	ethe converse the	vate nacy and s to to my pric artner is too bus does not s does not s is from th ofessiona care prof was prese were pres n care prof	sexual pority sexual	e the conversate open to this cosite gender all ing the conversing the conversate were presental series.	ion sation rsation
		1			
Information on	Satisfied	Impar	tial	Dissatisfied	Not received
Consequences of treatment on sexuality					
Where to find relevant information					
How to deal with sexual issues					
Which health care professional to					
approach in case questions occur					
Professional help with sexual issues					
Sexual tools					
Information for partners					
Other suggestions:					
31. For which of the items below do you fir	nd the avail	ability of	inform	nation importar	nt?
Information on	Import	ant	Imp	artial	Not important
Consequences of treatment on sexuality					
Where to find relevant information					
How to deal with sexual issues					
Which health care professional to approach in					
case questions occur					
Professional help with sexual issues					
Sexual tools					
Information for partners					
Other suggestions:					
Part 6: Relationships 32. Are you currently in a relationship? ☐ Yes, continue wit ☐ No, continue with					

33.	Does the disease hav	e an impact on starting a new relationship? Yes No I don't know
34.	Do problems or unce	rtainty with fertility have an impact on starting a new relationship? Yes No I don't know
If you did questionn		the moment of diagnosis or during treatment, you are now finished with the
35.	Were you in a relatio	nship at the moment of diagnosis? Yes, continue with question 36 No, continue with question 38
36.	partner?	as a result of the diagnosis or treatment, influence your relationship with your No influence Negative influence Positive influence N/A, I do not experience sexual problems
37.	partner?	Yes No, because No, there is no need of
38.	Do you find it import health care profession	tant to have your partner present when discussing intimacy and sexuality with a nal? Yes No I don't know
39.	Is there enough infor	mation about intimacy and sexuality available for partners? Yes No I don't know

Thank you very much for participating!
You can find more information on this subject via https://sickandsex.nl

Appendix 9.

Questionnaire chapter 7, part 2

Questionnaire healthcare professionals (translated from Dutch).

Questionnaire nearthcare professionals (translated from Dutch).						
	mographics What is your gender?					
1.		Male				
		Female				
		Temate				
2.	What is your age?	years				
3.	What is your function	?				
		Medical specialist				
		5 (1 1 1)				
		1				
	П					
		Other,				
4.	*	e area of oncology, including your education?				
		0-11 months				
		1-2 years				
		3-5 years				
		6-10 years				
		11-15 years				
		>15 years				
5.	Where do you work?	(multiple answers possible)				
		Academic hospital				
		General teaching hospital				
		District general hospital				
		Independent extramural practice				
		Extramural group practice				
		Other,				
6.	Did you follow a cour	rse/training on sexuality in AYAs or oncology patients in general?				
		Yes, specifically for AYAs				
		Yes, on cancer and sexuality in general				
		No				
Part 2: Th	e discussion of sexua	lity with AYAs				
		cuss sexuality with a new AYA?				
• •		Never				
		In less than half of the cases				
		In half of the cases				
		In more than half of the cases				
		Always				

8. How often do you discuss sexuality with an AYA during follow-up?

	Never	In less than half of the cases	In half of the cases	In mor than h of the	alf	Al	ways
18 years							
19 – 25 years							
25 – 30 years							
> 30 years							
10. Can you mark ii	n the table b	pelow how often y	ou discuss sexualit	y with:			
	Never	In less than half of the cases	In half of the cases	In mor than ha	alf	Alv	vays
Male patients							
Female patients							
11. Can you mark in	n the table b	pelow how often y	ou discuss sexualit	y in the follo	wing A	AYA	subgroups
	Never	In less than half of the cases	In half of the cases	In more than half of the cases	Alwa	nys	N/A, I don't see these patients
Brain cancer							
Breast cancer							
Colorectal cancer							
Gynaecological cancer							
Hematological cancer							
Sarcoma							
Skin cancer	1		-	+			

□ Never

□ Always

Testicular cancer

□ In less than half of the cases
 □ In half of the cases
 □ In more than half of the cases

		Thyroid cancer						
--	--	----------------	--	--	--	--	--	--

12. Can you mark in the table below how often you discuss sexuality with patients:

	Never	In less than half of the cases	In half of the cases	In more than half of the cases	Always
In curative setting					
In palliative setting					
In terminal setting					

13.	Never In less than half of the cases In half of the cases In more than half of the cases Always
14.	ty with an AYA, how do you do this? I do not/rarely discuss sexuality I discuss this during the first consult I discuss this during a follow-up consult I make a separate appointment Someone else from the treatment team usually discusses this I refer someone Other,
15.	ty, how often do you discuss this when the AYAs' parents are present? I do not/rarely discuss sexuality Never In less than half of the cases In half of the cases In more than half of the cases Always
16.	ant to have the partner present when discussing sexuality? Yes, I always ask the partner to attend the conversation I leave the choice with the patient and/or partner No, I prefer to discuss this separately with the patient No, I do not/rarely discuss sexuality Other,
17.	fluence of the disease on the relationship between the AYA and partner? Never In less than half of the cases In half of the cases In more than half of the cases Always

18.		□ Difficulty v □ Emotional l □ Erectile dys □ Fatigue □ Fear around □ Hormonal d □ Less sexual □ No more pl □ Pain during □ Self-uncerts □ Self-uncerts	vith orgasm lability sfunction I sex changes desire easure from se intercourse ainty due to ch ainty due to ch s of medication	ex nanged appearanc nanged self-image	e	e answers possible)		
19.	9. If you discuss sexual functioning with a woman , what do you discuss? (multiple answers possible) Difficulty with orgasm							
20.	20. The list below shows a number of reasons that may prevent you from discussing sexuality with patients. To which extent do you agree with the statements? Please mark one square per statement.							
		Totally disagree	Disagree	Partly agree/partly disagree	Agree	Totally agree		
Lacl	c of time							
Lacl	c of knowledge							
Lacl	c of training							

It's someone else's task			
AYA is not ready to discuss sexuality			
Sexuality is not a patient's concern			
AYA is too ill			

	Reasons related to culture/religion					
•	Reasons related to language/ethnicity					
	AYA's parents are present					
	AYA's partner is present					
	Age difference between you and AYA					
	Sexuality is a private matter					
	Presence of a third party					
	AYA is the opposite gender					
	I feel uncomfortable					
	Afraid to offend the AYA					
	Not feeling a connection with the AYA					
	No angle or reason for asking					
	AYA doesn't bring up the subject					
	AYA doesn't have a partner					
	No resources to refer the AYA					
	My workplace is not quiet					
21.	Is there a protocol fro	m your centre wl Yes No I don't know	here the discus	ssion of sexuality	is included	!?
22.	Is it from your depart	ment clear who is Yes, namely No I don't know		for discussing sex	cuality with	the AYA?

23	Is in your current workspace sufficient information available on sexuality to provide the AYA with? Yes No
24	Which percentage of the AYAs did you refer in the past year to a physician or other health care professional for support of sexual problems?%
25	If you refer an AYA for support of sexual problems, to whom do you refer them? I never refer an AYA Oncologist/head practitioner Utologist Gynaecologist Sexologist Psychologist Nurse General practitioner Other,
	Knowledge about sexual changes due to treatment
26	Do you think it is important to discuss the influence of treatment on sexuality? ☐ Very important
	☐ Important
	☐ Slightly important☐ Not important
27	Has the subject of sexuality in AYAs been addressed during your education? ☐ Yes ☐ No
28	Has the subject of sexuality ever been discussed during in-service training? Never Rarely Regularly Often
29	To which extend do you possess sufficient knowledge to be able to discuss sexuality with an AYA? No knowledge at all Not so much knowledge Some knowledge Sufficient knowledge A lot of knowledge
30	Do you feel capable to discuss sexuality with AYAs? ☐ Yes ☐ No
30	Do you feel the need to extent your knowledge on discussing sexuality with AYAs? ☐ Yes ☐ No
31	What could be helpful to discuss sexuality with AYAs? (multiple answers possible)

		Leaflets about sexuality to give to the AYA
		A short line with department of sexology for easy referral Clear guidelines or protocols on which health care professional discusses
		sexuality
		1
Part 4: O	pinion on discussing	sexuality
32.	Who has, in your opi	nion, the responsibility for discussing sexuality? (multiple answers possible) The AYA
		Partner of the AYA
		r
		r
		1
		2, 1 1 2 3 1
33.		portant to inform AYAs about potential sexual dysfunction due to treatment?
		1
		Not important
34.		portant to screen AYAs for sexual dysfunction? Very important
		Important
		8 7 1
		Not important
35.	•	scuss fertility with AYAs?
		Never In less than half of the cases
	-	In half of the cases
		In more than half of the cases
	Ц	Always
36.	To which extend do	you possess sufficient knowledge to be able to discuss fertility with an AYA?
		No knowledge at all
		Not so much knowledge Some knowledge
		Sufficient knowledge
		A lot of knowledge
37.	Has the subject of fer	rtility in AYAs been addressed during your education?
		Yes
		No

38.	Do you feel capable to discuss fertility with AYAs?
	□ Yes
	□ No

Thank you very much for participating!
You can find more information on this subject via https://sickandsex.nl

Appendix 10. Supplementary to chapter 8: Table S1

TABLE S1 Semi-structured interview questions used for interviews with participants

Number	Question
1	I want to start this interview with the question of what oral information provision on intimacy and sexuality for AYA patients currently looks like in your practice?
2	Ideally, what should oral information provision on intimacy and sexuality for AYA patients in your opinion looks like in the future?
3	What gaps or barriers do you currently notice in oral information provision and how could these ideally be solved?
4	Literature shows barriers in communication about intimacy and sexuality as well, like (lack of knowledge/experience having the conversation, lack of resources/referrals for patients, low priority, presence of parents/family, patients discomfort, clinicians discomfort, time and a lack of rapport/longitudinal relationship), how could these ideally be solved?
5	Ideally, who should discuss the topic intimacy and sexuality with AYA patients?
6	When should the topic intimacy and sexuality ideally be discussed with AYA patients?
7	In terms of content, what should ideally be discussed with AYA patients in the topic intimacy and sexuality?
8	How does education material on intimacy and sexuality for AYA patients currently looks like in your practice?
9	Do you feel a certain need in education material around intimacy and sexuality for AYAs?
10	Ideally, what should information material on intimacy and sexuality for AYA patients in your opinion looks like in the future?
11	In terms of content, what should the information material on intimacy and sexuality ideally contain for AYAs?

Appendix 11. Supplementary to chapter 9: S1

Search in PubMed. Search date: 11 October 2019. Limitations: English language.

(neoplasms[majr] OR "Cancer Survivors"[majr] OR cancer*[ti] OR adenoma*[ti] OR adenocarcinom*[ti] OR anticarcinogen*[ti] OR antitumour*[ti] OR blastoma*[ti] OR carcinogen*[ti] OR carcinom*[ti] OR carcinosarcoma*[ti] OR chordoma*[ti] OR germinoma*[ti] OR gonadoblastoma*[ti] OR hepatoblastoma*[ti] OR hodgkin disease[ti] OR hodgkin's disease[ti] OR hodgkins disease[ti] OR leukemi*[ti] OR lymphangioma*[ti] OR lymphangiomyoma*[ti] OR lymphangiosarcoma*[ti] OR lymphom*[ti] OR malignan*[ti] OR maligne[ti] OR malignes[ti] OR melanom*[ti] OR meningioma*[ti] OR mesenchymoma*[ti] OR mesonephroma*[ti] OR metasta*[ti] OR neoplas*[ti] OR neuroma*[ti] OR nsclc[ti] OR oncogen*[ti] OR oncolog*[ti] OR paraneoplastic[ti] OR plasmacytoma*[ti] OR precancerous[ti] OR sarcoma*[ti] OR teratocarcinoma*[ti] OR teratoma*[ti] OR tumor[ti] OR tumors[ti] OR tumour*[ti]) AND ("Sexual Dysfunctions, Psychological"[majr] OR "Sexual Behavior" [majr] OR "Sexual Partners" [majr] OR "Sexual Dysfunction, Physiological [majr] OR "Sexual Health"[majr] OR "Orgasm"[majr] OR "Coitus"[majr] OR sex[ti] OR sexual*[ti] OR orgasm[ti] OR orgasms[ti] OR erection[ti] OR erections[ti] OR erectile[ti] OR coitus[ti] OR intercourse[ti] OR "Sex Education"[majr] OR "Sex Counseling"[majr]) AND ("Education"[majr] OR educat*[ti] OR workshop*[ti] OR train[ti] OR training*[ti] OR trained[ti] OR program[ti] OR programs[ti] OR teach[ti] OR teached[ti] OR teaching[ti] OR intervention*[ti] OR course[ti] OR courses[ti] OR "Learning"[majr] OR learn[ti] OR learned[ti] OR learning[ti] OR knowledge[ti] OR "Role Playing"[majr] OR role play*[ti] OR quality improve*[tw] OR "improving quality"[tw] OR "improving the quality" [tw] OR supportive car*[tw] OR support car*[tw] OR physician discussion*[tw] OR physicians discussion*[tw] OR physician's discussion*[tw] OR (quality[ti] AND improv*[ti])) AND (English[lang] OR Dutch[lang]) 333 (11 okt 2019)

Appendix 12. Supplementary to chapter 9: S2
Assessment of risk of bias in individual studies according to the JBI -MAStARI Critical appraisal checklist

JBI -MAStARI Critical appraisal checklist (items 1-13) for randomized Controlled Trials	Kim (2014)	JBI -MAStARI Critical appraisal checklist for Quasi-Experimental Studies (items 1-9).	Jonsdottir (2016)	Wang (2015)	Reese (2019)	Afiyanti (2016)	Hordern (2009)	Grondhuis (2019)
Was true randomization used for assignment of participants to treatment groups?	Y	1. Is it clear in the study what the cause is and what the effect?	>-	>	7	>-	>	X
2. Was allocation to treatment groups concealed?	Y	2. Were the participants included in any comparisons similar?	>	¥	>	X	Y	z
3. Were treatment groups similar at baseline?	>	3. Were the participants included in any comparisons receiving similar treatment/care, other than the exposure or intervention of interest?	>	>	>-	*	>	¥
4. Were participants blind to treatment assignment?	Z	4. Was there a control group?	Z	Z	Z	Z	Z	Z
5. Were those delivering treatment blind to treatment assignment?	Z	5. Were there multiple measurements of the outcome both pre- and post- the intervention/exposure?	>	>-	>	≻	>-	X

Continuation S2		
6. Were outcomes assessors blind to treatment assignment?	z	6. Was follow-up complete and if not, were differences between groups in term of their follow-up adequately described and analyzed?
7. Were treatment groups treated identically other than the intervention of interest?	>	7. Were the outcomes o participants included in any comparisons measured in the same way?
8. Was follow-up complete and if not, were differences between groups in terms of their follow-up adequately described and analyzed?	>	8. Were outcomes measured in a reliable way?
9. Were participants analyzed in the groups to which they were randomized?	7	 Was appropriate statistical analysis applied?
10 Were outcomes measured in the same	>	

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7. Were the outcomes of

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between groups in terms

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Z \succ

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Y	
10. Were outcomes measured in the same	way for treatment groups?

Continuation S2

11. Were outcomes measured in a reliable Y way?

12. Was appropriate statistical analysis vsed?

13. Was the trial design appropriate, and any deviations from the standard RCT design (individual randomization, parallel groups) accounted for in the conduct and analysis of the trial?