

Prosedyrens tittel eller arbeidstitel	Medikamentell kreftbehandling og soleksponering
Spørsmål fra PICO-skjema	1) Hvilke konsekvenser kan soleksponering ha for kreftpasienter som har gjennomgått kjemoterapi? 2) Har pasienter som får/har fått kjemoterapi økt risikofor hudforandringer, skade eller sykdom som følge av soling?
Kontakt detaljer prosedyremakere	Navn: Berit Hofset Larsen Seksjon for sengeposter / Avdeling Kreftbehandling / Klinikk for kreft, kirurgi og transplantasjon. Sengepost A8 E-post: BHC@ous-hf.no Tlf: 2293 4737 / 2293 5541
Bibliotekar som utførte eller veiledet søket	Navn: Jette G. Hougese Arbeidssted: UiO, Universitetsbiblioteket. Medisinsk bibliotek. Radiumhospitalet E-post: jethou@ous-hf.no / j.g.hougese@ub.uio.no Tlf: 22935962
Bibliotekar som fagvurderte søket (Ikke obligatorisk)	Navn: Terese Dalsnes Arbeidssted: UiO, Universitetsbiblioteket. Medisinsk bibliotek. Ullevål sykehus E-post: terese.dalsnes@ub.uio.no Tlf: 22119495

Retningslinjer og kliniske oppslagsverk

Database/kilde	Prosedyrer i Nasjonalt nettverk for fagprosedyrer
Dato for søk	19.3.2015
Søkehistorie eller fremgangsmåte	Lest gjennom liste
Kommentarer	Medikamentell kreftbehandling og soleksponering 2010. Denne prosedyre som oppdateres.

Database/kilde	Nasjonale retningslinjer fra Helsedirektoratet
Dato for søk:	24.3.2015
Søkehistorie eller fremgangsmåte	Set gjennom liste for retningslinjer : Kreft
Kommentarer	Ingen relevante treff

Database/kilde	Helsebiblioteket
Dato for søk:	24.3.2015
Søkehistorie eller fremgangsmåte	Søkt : soleksponering , fotosensitiv
Kommentarer	Oncolex - Soleksponering ved medikamentell kreftbehandling Fotosensitivitet av legemidler brukt i kreftbehandling

Database/kilde	UpToDate
Dato for søk	24.3.2015
Søkehistorie eller fremgangsmåte	chemotherapy (phototoxicity OR photosensitivity) antineoplastic agents photo* photosensitivity
Kommentarer	Cutaneous complications of conventional chemotherapy agents Cutaneous complications of molecularly targeted therapy and other biologic agents used for cancer therapy Overview of cutaneous photosensitivity: Photobiology, patient evaluation, and photoprotection

Database/kilde	BMJ Best Practice
Dato for søk	24.3.2015
Søkehistorie eller fremgangsmåte	Chemotherapy sun* Photosensitive*
Kommentarer	http://bestpractice.bmj.com/best-practice/monograph/613/highlights/summary.html Graft-versus-host disease > Treatment > Details > PUVA

Database/kilde	NICE Guidance (UK)
Dato for søk	24.3.2015
Søkehistorie eller fremgangsmåte	photosensitiv* OR phototox* OR sun* OR photo* Conditions and Diseases > Cancer: søk: photosensitiv*
Kommentarer	Dabrafenib for treating unresectable or metastatic BRAF V600 mutation-positive melanoma (TA321)

Database/kilde	Guidelines International Network (G-I-N)
Dato for søk	24.3.2015
Søkehistorie eller fremgangsmåte	Chemotherapy* AND (photo* OR sun* OR ultraviolet) Cancer AND (photo* OR sun* OR ultraviolet) Language: dan, eng, nor, swe Publication: Guideline, Guideline Clearing Report

Kommentarer	Sunlight exposure: benefits and safety (PH) (Juli 2015. In development)
-------------	-----------------------------------------------------------------------------------------

Database/kilde	National guideline clearinghouse
Dato for søk	24.3.2015
Søkehistorie eller fremgangsmåte	chemotherap* and photosensitiv* chemotherap* and phototox* chemotherap* and sun* photosensitiv*
Kommentarer	Vemurafenib for treating locally advanced or metastatic BRAF V600 mutation-positive malignant melanoma. 2012 Dec. NGC:009518

Database/kilde	Helsebibliotekets retningslinjedatabase
Dato for søk	24.3.2015
Søkehistorie eller fremgangsmåte	Søk: fotosensitiv, soleksponering
Kommentarer	Ingen treff/ingen retningslinjer

Database/kilde	Socialstyrelsen, Nationella riktlinjer (SE)
Dato for søk	24.3.2015
Søkehistorie eller fremgangsmåte	Gjennomgang av listen over alle Nationella riktlinjer.
Kommentarer	Ingen relevante

Database/kilde	Sundhedsstyrelsen, Nationale kliniske retningslinjer (DK)
Dato for søk	24.3.2015
Søkehistorie eller fremgangsmåte	Sett gjennomg Udgifter, Igangværende og Kommende
Kommentarer	Ingen relevante

Database/kilde	Center for kliniske retningslinjer (DK)
Dato for søk	24.3.2015
Søkehistorie eller fremgangsmåte	Godkendte > Hud og slimhinder > gjennomgang av liste.
Kommentarer	Ingen relevante

Systematiske oversikter

Database/kilde	The Cochrane Library		
Dato for søk	16.04.2015		
Søkehistorie	#1	cancer:ti,ab,kw (Word variations have been searched)	65368
	#2	[mh neoplasms]	53443
	#3	neoplasms:ti,ab,kw (Word variations have been searched)	49630
	#4	[mh "cytostatic agents"]	2
	#5	cytostatic drug*:ti,ab,kw (Word variations have been searched)	218
	#6	"cytostatic agent":ti,ab,kw (Word variations have been searched)	91
	#7	[mh ^"antineoplastic agents"]	6143
	#8	antineoplastic agent*:ti,ab,kw (Word variations have been searched)	11250
	#9	chemotherapy:ti,ab,kw (Word variations have been searched)	33866
	#10	"drug therapy":ti,ab,kw (Word variations have been searched)	81643
	#11	[mh ^"antibodies, monoclonal"]	4013
	#12	"monoclonal antibodies":ti,ab,kw (Word variations have been searched)	2605
	#13	egfr inhibitors:ti,ab,kw (Word variations have been searched)	488
	#14	braf inhibitors:ti,ab,kw (Word variations have been searched)	48
	#15	BRAF:ti,ab,kw (Word variations have been searched)	148
	#16	"EGFR":ti,ab,kw (Word variations have been searched)	1368
	#17	vemurafenib:ti,ab,kw (Word variations have been searched)	31
	#18	zelboraf:ti,ab,kw (Word variations have been searched)	2
	#19	dabrafenib:ti,ab,kw (Word variations have been searched)	17
	#20	tafinlar:ti,ab,kw (Word variations have been searched)	1
	#21	[mh anthracyclines]	4038
	#22	anthracycline:ti,ab,kw (Word variations have been searched)	1048
	#23	[mh ^doxorubicin]	2757
	#24	"doxorubicin":ti,ab,kw (Word variations have been searched)	4872
	#25	[mh "photosensitizing agents"]	449
	#26	photosensitizing agents:ti,ab,kw (Word variations have been searched)	487
	#27	[mh ^bleomycin]	732
	#28	"bleomycin":ti,ab,kw (Word variations have been searched)	1220
	#29	[mh methotrexate]	2847
	#30	"methotrexate":ti,ab,kw (Word variations have been searched)	5618
	#31	docetaxel:ti,ab,kw (Word variations have been searched)	2355
	#32	[mh ^fluorouracil]	3673
	#33	"fluorouracil":ti,ab,kw (Word variations have been searched)	6753
	#34	[mh vincristine]	1824
	#35	"vincristine":ti,ab,kw (Word variations have been searched)	3020
	#36	[mh vinblastine]	878
	#37	"vinblastin":ti,ab,kw (Word variations have been searched)	21
	#38	[mh ^daunorubicin]	445
	#39	"daunorubicin":ti,ab,kw (Word variations have been searched)	783
	#40	[mh ^6-Mercaptopurine]	237
	#41	mercaptopurine:ti,ab,kw (Word variations have been searched)	484
	#42	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30 or #31 or #32 or #33 or #34 or #35 or #36 or #37 or #38 or #39 or #40 or #41	172940
	#43	[mh "ultraviolet rays"]	536
	#44	"ultraviolet ray":ti,ab,kw (Word variations have been searched)	589
	#45	"sun ray":ti,ab,kw (Word variations have been searched)	2
	#46	[mh sunlight]	925
	#47	"sunlight":ti,ab,kw (Word variations have been searched)	443
	#48	[mh sunbathing]	24
	#49	"sunbathing":ti,ab,kw (Word variations have been searched)	46

	#50 [mh sunburn]	158
	#51 "sunburn":ti,ab,kw (Word variations have been searched)	260
	#52 [mh suntan]	4
	#53 tanning:ti,ab,kw (Word variations have been searched)	359
	#54 "solarium":ti,ab,kw (Word variations have been searched)	7
	#55 sun exposure:ti,ab,kw (Word variations have been searched)	338
	#56 #43 or #44 or #45 or #46 or #47 or #48 or #49 or #50 or #51 or #52 or #53 or #54 or #55	1747
	#57 [mh "photosensitivity disorders"]	318
	#58 "photosensitive":ti,ab,kw (Word variations have been searched)	40
	#59 "photosensitivity":ti,ab,kw (Word variations have been searched)	345
	#60 "photosensitised":ti,ab,kw (Word variations have been searched)	4
	#61 "photodamage":ti,ab,kw (Word variations have been searched)	129
	#62 [mh "dermatitis, photoallergic"]	16
	#63 "dermatitis":ti,ab,kw (Word variations have been searched)	4043
	#64 [mh "dermatitis, phototoxic"]	0
	#65 "phototoxic":ti,ab,kw (Word variations have been searched)	124
	#66 "phototoxicity":ti,ab,kw (Word variations have been searched)	99
	#67 "photoallergic":ti,ab,kw (Word variations have been searched)	23
	#68 "photoallergy":ti,ab,kw (Word variations have been searched)	12
	#69 "photoallergies":ti,ab,kw (Word variations have been searched)	0
	#70 "skin disease":ti,ab,kw (Word variations have been searched)	1786
	#71 "skin disorder":ti,ab,kw (Word variations have been searched)	176
	#72 #57 or #58 or #59 or #60 or #61 or #62 or #63 or #64 or #65 or #66 or #67 or #68 or #69 or #70 or #71	6379
	#73 #42 and #56 and #72 Publication Year from 2005 to 2015, in Cochrane Reviews (Reviews and Protocols), Other Reviews, Trials and Technology Assessments	75
Antall treff	Cochrane Reviews: 2 Other Reviews: 1 Trials: 72 Technology Assessments: 0	
Kommentarer	Se alle artiklene i vedheftede dokument	

Database/kilde	Nasjonalt kunnskapssenter for helsetjenesten – rapporter og notater
Dato for søk	19.3.2015
Søkehistorie eller fremgangsmåte	Soleksponering Fotosensitiv*
Kommentarer	Ingen treff

Primærstudier

Database/kilde	Ovid MEDLINE In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present
Dato for søk	14.04.2015
Søkehistorie	1 Neoplasms/ (308219) 2 cancer.mp. (1133358) 3 Cytostatic Agents/ (395) 4 cytostatic drug.mp. (641) 5 antineoplastic agent.mp. (1549) 6 Antineoplastic Agents/ (202005)

	<p>7 Drug Therapy/ (28327) 8 chemotherapy.mp. (317044) 9 EGFR inhibitors.mp. (1351) 10 Bleomycin/ (13239) 11 Methotrexate/ (32427) 12 BRAF inhibitors.mp. (442) 13 BRAF.mp. (6528) 14 EGFR.mp. (32477) 15 Fluorouracil/ (35467) 16 vemurafenib.mp. (796) 17 zelboraf.mp. (27) 18 dabrafenib.mp. (297) 19 tafenlar.mp. (4) 20 Anthracyclines/ (2842) 21 Daunorubicin/ (7344) 22 Doxorubicin/ (40908) 23 Photosensitizing Agents/ (10413) 24 Photosensitizing Agents.mp. (10519) 25 docetaxel.mp. (10844) 26 vinblastin.mp. (260) 27 Vincristine/ (20648) 28 mecaptopurine.mp. (3) 29 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 (1622934) 30 ultraviolet ray.mp. or Ultraviolet Rays/ (65249) 31 sun ray.mp. or Sunlight/ (11885) 32 sunbathing.mp. or Sunbathing/ (703) 33 sunburn.mp. or Sunburn/ (3268) 34 tanning.mp. or Tanning/ (2594) 35 solarium.mp. (121) 36 sun exposure.mp. (3856) 37 30 or 31 or 32 or 33 or 34 or 35 or 36 (79703) 38 photosensitive.mp. (3872) 39 photosensitivity.mp. (6) 40 photosensitised.mp. (62) 41 photodamage.mp. (1890) 42 Dermatitis/ or dermatitis.mp. (71485) 43 Dermatitis, Phototoxic/ (704) 44 phototoxic.mp. (2568) 45 phototoxic.mp. (2568) 46 phototoxicity.mp. (2489) 47 photoallergic.mp. (824) 48 photoallergy.mp. (291) 49 photoallergies.mp. (17) 50 skin disease.mp. or Skin Diseases/ (54415) 51 skin disorder.mp. (1712) 52 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 (130761) 53 29 and 37 and 52 (649) 54 limit 53 to ((danish or english or norwegian or swedish) and last 6 years) (192)</p>
Antall treff	192 artikler. Søkt for de seneste 6 år
Kommentarer	<p>Se alle artiklene i vedheftede dokument Malondialdehyde-derived epitopes in human skin result from acute exposure to solar UV and occur in nonmelanoma skin cancer tissue. 2014</p> <p>UV-induced occupational skin cancer: possibilities of secondary individual prevention in the</p>

	<p>"Dermatologist's Procedure". 2013</p> <p>Phototoxic and photoallergic cutaneous drug reactions. 2012</p> <p>Risk factors for nonmelanoma skin cancer in Taubate, Sao Paulo, Brazil: a case-control study. 2011</p> <p>Management of high-risk squamous cell carcinoma of the skin. 2012</p> <p>Drug-induced photosensitivity. 2009</p>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Database/kilde	Embase 1980 to 2015 Week 14
Dato for søk	15.04.2015
Søkehistorie	<ol style="list-style-type: none"> 1 Neoplasms/ (255547) 2 cancer.mp. (2239194) 3 Cytostatic Agents/ (6752) 4 cytostatic drug.mp. (759) 5 antineoplastic agent.mp. (223051) 6 Antineoplastic Agents/ (221895) 7 Drug Therapy/ (303448) 8 chemotherapy.mp. (525371) 9 EGFR inhibitors.mp. (2306) 10 Bleomycin/ (36790) 11 Methotrexate/ (130523) 12 BRAF inhibitors.mp. (845) 13 BRAF.mp. (11223) 14 EGFR.mp. (54797) 15 Fluorouracil/ (104534) 16 vemurafenib.mp. (3167) 17 zelboraf.mp. (316) 18 dabrafenib.mp. (1091) 19 tafinlar.mp. (60) 20 Anthracyclines/ (14671) 21 Daunorubicin/ (22389) 22 Doxorubicin/ (138730) 23 Photosensitizing Agents/ (9379) 24 Photosensitizing Agents.mp. (248) 25 docetaxel.mp. (38560) 26 vinblastin.mp. (388) 27 Vincristine/ (79585) 28 mecaptopurine.mp. (3) 29 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 (2933103) 30 ultraviolet ray.mp. or Ultraviolet Rays/ (73695) 31 sun ray.mp. or Sunlight/ (11769) 32 sunbathing.mp. or Sunbathing/ (625) 33 sunburn.mp. or Sunburn/ (4479) 34 tanning.mp. or Tanning/ (3750) 35 solarium.mp. (177) 36 sun exposure.mp. (11785) 37 30 or 31 or 32 or 33 or 34 or 35 or 36 (97026) 38 photosensitive.mp. (4141)

	<p>39 photosensitivity.mp. (25) 40 photosensitized.mp. (83) 41 photodamage.mp. (2369) 42 Dermatitis/ or dermatitis.mp. (93456) 43 Dermatitis, Phototoxic/ (17626) 44 phototoxic.mp. (2557) 45 phototoxic.mp. (2557) 46 phototoxicity.mp. (6515) 47 photoallergic.mp. (628) 48 photoallergy.mp. (1454) 49 photoallergies.mp. (29) 50 skin disease.mp. or Skin Diseases/ (82621) 51 skin disorder.mp. (2547) 52 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 (179172) 53 29 and 37 and 52 (1385) 54 limit 53 to ((danish or english or norwegian or swedish) and last 6 years) (557) 55 limit 54 to exclude medline journals (84) 56 exp neoplasm/ (3336933) 57 chemotherapy/ (92104) 58 epidermal growth factor receptor/ (45266) 59 vemurafenib/ (3060) 60 dabrafenib/ (1040) 61 doxorubicin/ (138730) 62 docetaxel/ (37564) 63 1 or 56 (3338906) 64 8 or 57 (525371) 65 16 or 59 (3167) 66 18 or 60 (1091) 67 22 or 61 (138730) 68 25 or 62 (38560) 69 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 63 or 64 or 65 or 66 or 67 or 68 (4150566) 70 37 and 52 and 69 (1843) 71 limit 70 to (danish or english or norwegian or swedish) (1625) 72 limit 71 to yr="2009 -Current" (725) 73 limit 72 to exclude medline journals (104)</p>
<p>Antall treff</p>	<p>104 artikler. Søkt for de seneste 6 år</p>
<p>Kommentarer</p>	<p>Se alle artiklene i vedheftede dokument</p> <p>Radiation recall dermatitis in breast cancer patients (BCP). Observational study. 2013</p> <p>Appearance of new vemurafenib-associated melanocytic nevi on normal-appearing skin: Case series and a review of changing or new pigmented lesions in patients with metastatic malignant melanoma after initiating treatment with vemurafenib. 2013</p> <p>Targeted therapy in metastatic melanoma. 2012</p>

Database/kilde	SweMed+
Dato for søk	08.04.2015
Søkehistorie	Chemotherapy* AND (photo* OR sun* OR ultraviolet) Cancer AND (photo* OR sun* OR ultraviolet)
Antall treff	Søkt tilbake til år 2000 : 155 artikler
Kommentarer	<p>Solsemester i vinter? Se opp med aktiniska keratoser - ökar risken för andra hudcancer</p> <p>Immunsuppressive legemidler og utvikling av hudkreft etter organtransplantasjon</p> <p>Sol, modermaerker og melanom i daglig praksis</p> <p>UVA-stråling og melanomer</p> <p>Årsaker til hudkreft av ikke-melanomtype</p>

Database/kilde	PubMed
Dato for søk	14.04.2015
Søkehistorie eller fremgangsmåte	Search (((((((((((photosensit* OR phototoxic* OR sunburn OR tanning OR sun exposure)))) OR (((("Ultraviolet Rays"[Mesh]) OR "Sunbathing"[Mesh]) OR "Sunlight"[Mesh]) OR "Sunburn"[Mesh]) OR "Tanning"[Mesh]) OR solarium))) AND (((("Neoplasms"[Mesh]) OR "Drug Therapy"[Mesh]) OR "Cytostatic Agents"[Mesh]))) AND ((egfr inhibitors) OR ((braf OR egfr OR vemurafenib OR zelnoraf OR dabrafenib OR tafenlar)))))) AND ((antineoplastic agents[MeSH Terms]) OR "Dermatitis, Phototoxic"[Mesh]) 43
Kommentarer	<p>Se alle artiklene i vedheftede dokument</p> <p>Reversible and adaptive resistance to BRAF(V600E) inhibition in melanoma. 2014</p> <p>Vemurafenib: an unusual UVA-induced photosensitivity. 2013</p> <p>Epidermal growth factor receptor-targeted photosensitizer selectively inhibits EGFR signaling and induces targeted phototoxicity in ovarian cancer cells. 2012</p> <p>Vemurafenib in patients with BRAF(V600) mutated metastatic melanoma: an open-label, multicentre, safety study. 2014</p> <p>[Adverse skin reactions induced by BRAF inhibitors: a systematic review]. [Article in French] 2013</p> <p>Adenomatous polyposis coli determines sensitivity to the EGFR tyrosine kinase inhibitor gefitinib in colorectal cancer cells. 2014</p> <p>UVA-induced cell cycle progression is mediated by a disintegrin and metalloprotease/epidermal growth factor receptor/AKT/Cyclin D1 pathways in keratinocytes. 2008</p>