

**Incidence of melanoma and non-melanoma skin cancer in
people with vitiligo: A case-control study in the UK, 2009-
2020: Statistical Analysis Plan and Protocol**

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List of abbreviations

Abbreviation	Full Form
ADEPT	Anonymised Data Ethics Protocols and Transparency
AK	Actinic keratoses
BCC	Basal cell carcinoma
BMI	Body mass index
CI	Confidence Interval
GEP	Good Epidemiological Practice
GP	General Practitioner
GPP	Guidelines for Good Pharmacoepidemiology Practices
HR	Hazard Ratio
IEA	International Epidemiological Association
IMD	Index of multiple deprivation
IQR	Interquartile range
ISPE	International Society for Pharmacoepidemiology
NMSC	Nonmelanoma skin cancers
OPCRD	Optimum Patient Care Research Database
RECORD	Reporting of studies conducted using observational routinely collected data
SCC	Squamous cell carcinoma
SD	Standard deviation
SES	Socio-economic status
UK	United Kingdom
UV	Ultraviolet

1. Introduction

1.1 Background

Vitiligo is an acquired depigmenting cutaneous disease with an incidence of 0.5 to 2% worldwide. It is characterised by white patches of skin resulting from the destruction of melanocytes from the epidermis (1). Although the exact cause of the condition remains to be established, autoimmunity is an important hypothesis of the aetiology of vitiligo. It has been demonstrated that CD8+ T-cells play a major role in the destruction of melanocytes, through the recognition of melanocyte differentiation antigens (2).

Genetic studies of vitiligo have greatly advanced understanding of the pathobiology of the condition and provided insights regarding to susceptibility to skin cancer. Genome-wide association analyses have found that vitiligo is associated with polymorphisms in the TYR gene, which codes for tyrosinase, the main enzyme in melanin synthesis. The TYR allele that is associated with susceptibility to vitiligo may confer a degree of protection against melanoma because of the anti-tyrosinase immunity (3). In addition, human leukocyte antigen A2 which is the risk allele for the development of vitiligo was found to be associated with regressing melanoma, supporting the inverse relationship between vitiligo and melanoma (4).

Although the genetic and autoimmunity profiles in vitiligo may protect against the development of melanoma and nonmelanoma skin cancers (NMSC), an absence of melanin in lesional skin and prolonged phototherapy treatment may cause concern about the development of skin cancer in this population (5). In a retrospective cohort study of 479 patients with vitiligo, an overall higher incidence of NMSC in the white vitiligo cohort than the white US rates was reported (6). This finding was supported by a recent, nationwide, control-matched cohort study conducted in Korea assessing 131,245 patients. The authors reported that, taking into account of the important cofounders (e.g. ultraviolet treatment), people with vitiligo were 3.4 and 1.3 times more likely to get melanoma and nonmelanoma skin cancer (NMSC), respectively, than those without vitiligo (7).

In contrast to the above-mentioned studies, Teulings and colleagues (8), in a large comparative cohort, Dutch, survey-based study in 2013, found a 3-fold lower probability of developing melanoma and NMSC in those with vitiligo. Stratification of the results into subgroups of patients treated with narrowband ultraviolet (UV) B, and psoralen and UV-A did not find increased lifetime prevalence of melanoma or NMSC. A subsequent study conducted in Italy by Paradisi and colleagues (9) also reported that patients with vitiligo had a significantly lower probability of developing melanoma or NMSC than those with a non-dermatological condition. However, a markedly higher risk (14.1% vs 3.2%) was noted in patients treated with phototherapy compared with the control group.

Overall, the risk of melanoma and NMSC in vitiligo is still being debated and further research is needed in this field.

1.2. Purposes of analyses

To the best of our knowledge, there have not been any large population-based studies in the UK assessing the incidence of melanoma and NMSC in patients with vitiligo compared with people without the condition. The purpose of this study is therefore to fill this data gap, and to examine whether the susceptibility to melanoma and NMSC may vary between different patient subgroups, e.g. ethnicity, those who undergo phototherapy or treatment with the new targeted biologic immunosuppressive therapies. Such new insights will be valuable for clinicians in advising patients with vitiligo on sun-related behaviour and treatment options in the UK.

2. Study objectives and endpoints

2.1 Study objectives

The overall purpose of this study is to examine whether the risk of skin cancer is higher in people diagnosed with vitiligo compared to people without vitiligo.

2.2 Primary objectives

- Describe the risk of new onset skin cancer in adults diagnosed with vitiligo in a contemporary real-world population compared with matched controls without vitiligo.
- Describe the risk of new onset skin cancer in adults diagnosed with vitiligo by sociodemographic subgroups.

2.3 Secondary objectives:

- Describe the prevalence of skin cancer in adults diagnosed with vitiligo compared with matched controls without vitiligo.
- Describe the prevalence of individual skin cancer types in adults diagnosed with vitiligo compared with matched controls without vitiligo.
- Describe the risk of new onset actinic keratoses (AK) in adults diagnosed with vitiligo compared with matched controls without vitiligo.
- Examine the prevalence of AK in adults diagnosed with vitiligo compared with matched controls without vitiligo.

2.4 Primary endpoint

- The skin cancer outcome comprises of the composite of melanoma and NMSC. NMSC comprises squamous cell carcinoma (SCC) and basal cell carcinoma (BCC). When more than one of melanoma, SCC and BCC occur, the skin cancer diagnosis date will be the earliest of these cancers.
- The primary endpoint is time to first diagnosis of new onset skin cancer during the study follow up period.

2.5 Secondary endpoints

- The prevalence (those diagnosed prior to the study period) of any skin cancer and each individual skin cancer in each study group.
- The secondary endpoint for new onset AK is the time to first diagnosis of AK during the study follow up period.

2.6 Other exploratory analyses

If there is sufficient information in the primary care record, we will examine the possibility of comparing the primary endpoints in those people with a documented history of immunotherapy use (compared the those without) and those people with a documented history of phototherapy treatment (compared the those without). Data on phototherapy treatment may be insufficient to enable comparisons, if this is the case, this will be reported as a limitation of the study.

3 General Study Design and Plan

3.1 Study Design

A matched-cohort design will be used to compare the risk of new onset skin cancers. The study will use a case-control design to compare the prevalence of skin cancers.

3.2 Data source and Read codes

This study will use routinely collected and collated data from the Optimum Patient Care Research Database (OPCRD). (10) This database incorporates pseudonymised primary care records from up to 700 GP practices distributed across England, Wales, Scotland and Northern Ireland. The current OPCRD cohort size is over 5 million actively registered people, and historic records available for 10.1 million people.

3.3 Data extraction

Individual patient data is anonymised at the point of data extraction. Queries will be executed to extract relevant data from the OPCRD using the Read code listed in Appendix 1. All data will remain in anonymised form and will be held on a secure server. The data will not be used for any purposes other than for the research which is described in the

respective protocols and which has been approved by OPC. The sponsor, Pfizer Ltd, will not have access to the individual anonymised patient data.

3.4 Inclusion-Exclusion Criteria and General Study Population

Definition of vitiligo cases

We will identify all people diagnosed with vitiligo using diagnostic Read and SNOMED CT codes which are specific to vitiligo (Appendix 1). A diagnostic algorithm will be used to facilitate robust case identification of vitiligo. This algorithm will identify anyone with a vitiligo specific diagnosis code followed by exclusion of anyone with a diagnosis code for an alternative depigmenting disorder coded within a one-year period (six months before or after their first vitiligo diagnosis code). The list of alternative depigmenting disorders is shown in Appendix 2. We will include people diagnosed with vitiligo prior to the study period (referred to as prevalent vitiligo) and people newly diagnosed with vitiligo during the study period (referred to as incident vitiligo) as vitiligo cases for the risk of new onset of skin cancers analysis. Only people with incident vitiligo will be included as cases in prevalence analysis.

The study index date for people diagnosed with vitiligo will be the latest of; the start date of follow-up (1st Jan 2010), date of registration with GP plus six months, or the date of diagnosis of vitiligo.

3.5 Baseline characteristics

A full list of the study variables is provided in Appendix 3. Sociodemographic groups will be defined by age category (18-44, 45-64, ≥ 65), sex, socio-economic status (SES), and ethnicity. SES will be defined using the official national deprivation measure; index of multiple deprivation (IMD).(11) This will be calculated at the point of data extraction, using patient postcode, with the resultant scores stratified by deprivation quintile according to the national distribution. Ethnicity will be grouped into major ethnic groups to be consistent with the UK official census categories: White, Black African/Caribbean, Asian, Mixed, and Other(12, 13). Other clinical covariates comprised BMI category, smoking status, alcohol use, and common comorbidities (hypertension, hyperlipidaemia, type 2 diabetes, atrial fibrillation, angina, myocardial infarction, stroke, heart failure,

chronic kidney disease stages 3-5, chronic obstructive pulmonary disease, asthma, chronic liver disease, and dementia). These will be identified using clinical codes and test results recorded in the patient record.

4 Sample size calculations

No previous UK population-based studies have examined skin cancer risk in people with vitiligo to provide an estimation of effect size to inform our sample size calculation. Assuming 80% power, a 1:1 ratio of vitiligo cases to controls, and an overall probability of melanoma over the study period of 0.45% (a conservative estimate based on a previous analysis of melanoma incidence in the general population (14)) a sample size of 6,177 will be required to detect a minimum clinically relevant effect size of a 80% decreased risk of melanoma in the vitiligo cohort compared to population controls. We anticipate c.22,500 people in our study cohort will be defined as vitiligo cases, these will be 1:1 matched to population controls providing a study cohort well in excess of this required sample size.

5 Populations to be analysed

5.1 Inclusion Criteria

All eligible adult patients (aged ≥ 18) registered with GP practices contributing data to OPCRD between January 1, 2010 and December 31, 2020, are eligible for inclusion in the study. People diagnosed with vitiligo prior to the study period (prevalent vitiligo) and people newly diagnosed with vitiligo during the study period (incident vitiligo) will be included as cases.

5.2 Exclusion Criteria

People actively registered with the GP practice at that date without a history of vitiligo require a minimum one-year registration with their GP practice.

5.3 Matching process

Each adult with vitiligo (prevalent or incident) will be 1:1 matched at their index date using, nearest neighbour matching (30) with an unaffected control (people without vitiligo prior to or during the study period). Matching variables will comprise age, sex,

duration of practice registration and within primary care practice where numbers allow. After matching, the index date for each control will be set at the index date of their matched counterpart.

6 Statistical Analysis

6.1 Statistical principles

The mean, standard deviation (sd) and any other statistical measures, will be reported to one decimal place. Continuous data will be summarised in the form of means, sd, median, interquartile range (IQR) and range as appropriate. Categorical data will be summarised using frequencies and proportions. Chi-squared and t-tests will be performed to compare the frequency of dichotomous variables and the values of continuous variables where relevant. 95% CIs will be reported for main effect sizes. Statistical significance will be assessed using $p < 0.05$. Actual p-values will be reported except for p-values less than 3 decimal places which will be reported as " <0.001 ". P-values >0.1 will be reported to one decimal place, p-values between 0.01 and 0.1 will be reported to 2 decimal places, and p-values between 0.001 and 0.01 will be reported to three decimal places.

The assessment of any associations with baseline characteristics and the primary endpoint will be assessed using Cox proportional hazards models. A standard set of features will be used in all multivariable models as listed in section 6.2.

Assumptions of statistical approaches will be assessed, and transformations used if necessary (although it is not anticipated that the data will violate model assumptions).

6.2 Primary Endpoint Analysis

Risk of new onset skin cancer will be assessed prospectively in vitiligo cases (prevalent and incident vitiligo, refer to section 3.4) and matched controls from the index date. Endpoints will be identified using the clinical codes described in Appendix 4. Only vitiligo cases where both the vitiligo case and their matched counterpart do not have skin cancer at their index date will be included. We will then estimate risk of skin cancer over the study period starting from the index date for both vitiligo cases and controls. The end of follow-up will be defined as the earliest of the study end-date (December 31, 2020), the

date of patient transfer from an included general practice, date of death, or the date an individual first developed skin cancer. Risk of developing skin cancer will then be examined using time to failure analysis. Initially, unadjusted Cox proportional hazards models, stratified by matched set (vitiligo cases versus matched controls), will be used to provide overall hazard ratios (HRs) as summary estimates for the association of the presence of vitiligo with the time to skin cancer. Models will subsequently be adjusted for baseline sociodemographic, history of immunotherapy use or phototherapy treatment, prior vitiligo disease duration, and comorbidities (hypertension, hyperlipidaemia, type 2 diabetes, atrial fibrillation, angina, myocardial infarction, stroke, heart failure, chronic kidney disease stages 3-5, chronic obstructive pulmonary disease, asthma, chronic liver disease, and dementia) in multivariable analysis.

This primary endpoint analysis will be repeated in sociodemographic subgroups defined by age, sex, SES and ethnicity.

6.3 Secondary Objective Analysis

Prevalence of skin cancer and each individual cancer type (melanoma, SCC, BCC and AK) will be examined in incident vitiligo cases (refer to section 3.4) and compared to matched controls without vitiligo. Prevalence will be estimated at the index date for both cases and matched controls.

Risk of new onset as described in the primary endpoint analysis will be repeated for each individual cancer type (melanoma, SCC, BCC and AK).

6.4 Sensitivity analysis

To evaluate the magnitude of potential bias from including, as matched controls, people who are registered with GP practices but who do not attend their practice, we also repeated the primary analysis including only controls with a least one primary care consultation in the year preceding their index date.

As part of developing the vitiligo case definition we will explore the numbers of people excluded by each alternative diagnosis. If an alternative diagnosis is found to be common and lead to exclusion of a large proportion of the potential cohort (e.g. >10%) then

sensitivity analysis will be performed to identify any effect of removing that particular exclusion criteria on: 1) the study cohort demographics and 2) any associations with the outcome measures. These analyses may lead to an updated case definition which will be reported in full in the final project manuscript.

6.5 Missing data

This study will use the missing indicator variable method as missing data are considered likely not to be missing at random, meaning multiple imputation approaches will lack validity.

Patient will need to be excluded from analyses based on a matched design if they have incomplete data in the fields (age, sex) required to run the matching process. In similar studies, the exclusion rate due to incomplete data has been low (15, 16).

7 Study Limitations

Although the data is derived from a validated and nationally representative sample of the UK, results should not be extrapolated to dissimilar populations. Important limitations of the study include the reliance on comprehensive code lists to identify any given baseline or outcome variable. This limitation is common to all studies using routinely recorded data and will be mitigated through the use of a validated approach for defining baseline and outcome parameters. (17)

Limitations exist in the amount of clinical detail presently recorded in routine primary care electronic health records. Routine primary care databases offer the benefit of large cohorts at the expense of granularity; a limitation that is universal in epidemiological studies of this type. Some analyses will be restricted to people in whom complete information is available which may introduce selection bias as a result. Finally, the data presented will be observational in nature and although attempts will be made to reduce confounding by statistical adjustment where relevant, it is not possible to exclude the possibility of residual confounding as part of the explanation for any findings.

8 Statistical software

All statistical analyses will be performed using R software version 3.4.1.

9 Ethics

This study requires approval by the Anonymised Data Ethics Protocols and Transparency (ADEPT) Committee. It has been uploaded to ClinicalTrials.gov.

This study will be conducted in accordance with legal and regulatory requirements, as well as with scientific purpose, value, and rigor and follow generally accepted research practices described in Guidelines for Good Pharmacoepidemiology Practices (GPP) issued by the International Society for Pharmacoepidemiology (ISPE), and Good Epidemiological Practice (GEP) guidelines issued by the International Epidemiological Association (IEA). Study reporting will be conducted in accordance with the RECORD (Reporting of studies conducted using observational routinely collected data) guidelines.(18)

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Appendix 1

Codes to be used to identify cases of vitiligo and important exclusion conditions (see also Appendix 2).

Read and SNOMED codes to be used to identify cases of vitiligo

Read V2 Code	Term ID	Description
M2951	All	Vitiligo
M293.	All	Hypopigmentation disorder
F4E53	All	Vitiligo of eyelid
M295.	All	Leucoderma
M295z	All	Leucoderma NOS
Read CTV3 Code	Term ID	Description
M2951	All	Vitiligo
M293.	All	Hypopigmentation disorder
F4E53	All	Vitiligo of eyelid
M295.	All	Acquired hypomelanosis
M295z	All	Leucoderma NOS
SNOMED Code	Term ID	Description
56727007		Vitiligo (disorder)
87666009		Vitiligo of eyelid (disorder)
721539008		Vitiligo of eyelid and periocular area (disorder)
403271008		Kobner vitiligo (disorder)
403270009		Trichrome vitiligo (disorder)
403267005		Localised vitiligo (disorder)
403268000		Segmental vitiligo (disorder)
402621008		Idiopathic vitiligo (disorder)
403269008		Generalised vitiligo (disorder)
33093100011910 6		Vitiligo of skin of left eyelid and periocular area (disorder)
33093100011910 4		Vitiligo of skin of right eyelid and periocular area (disorder)
33091100011910 1		Vitiligo of skin of left upper eyelid and periocular area (disorder)
33088100011910 1		Vitiligo of skin of right upper eyelid and periocular area (disorder)
726608002		Spastic paraparesis, vitiligo, premature greying, characteristic facies syndrome
23006000		Hypopigmentation of skin (disorder)
89031001		Hypopigmentation (morphological abnormality)
68210006		Hypopigmentation of eyelid

18655006		Dipigmentation
23267004		Achromia of skin (disorder)
402807009		Circumscribed hypomelanosis (disorder)

Read codes and SNOMED codes to be used to identify alternative depigmenting disorders for exclusion

Congenital and Genetic Hypomelanoses		
Read V2 Code	Term ID	Description
C302A	All	Piebaldism
PK5..	All	Tuberous sclerosis
PKy54	All	Waardenburg's syndrome
C3029	All	Hermansky-Pudlak
PKy92	All	Menke's syndrome
Read CTV3 Code	Term ID	Description
X78Ve	All	Hypomelanosis of Ito
XaZqX	All	Piebaldism
PK5..	All	Tuberous sclerosis
X78E7	All	Ash leaf spot, tuberous sclerosis
X78E8	All	Shagreen patch
X78E9	All	Adenoma sebaceum
X20Ex	All	Hermansky-Pudlak syndrome
X20ij	All	Griscelli syndrome with immunodeficiency
PKy92	All	Menkes syndrome
SNOMED Code	Term ID	Description
218358001		Incontinentia pigmenti achromians syndrome (disorder)
718122005		Piebaldism (disorder)
7199000		Tuberous sclerosis syndrome (disorder)
254243001		Ash leaf spot, tuberous sclerosis (disorder)
36025004		Fibrous skin tumor of tuberous sclerosis (disorder)
254244007		Shagreen patch (disorder)
9311003		Hermansky-Pudlak syndrome (disorder)
37548006		Hypopigmentation-immunodeficiency disease (disorder)
59178007		Menkes kinky-hair syndrome (disorder)
47434006		Waardenburg's syndrome (disorder)
715952000		Waardenburg syndrome co-occurrent with Hirschsprung disease (disorder)
773575001		Ocular albinism with congenital sensorineural deafness (disorder)

765325002		Peripheral demyelinating neuropathy, central dysmyelinating leukodystrophy, Waardenburg syndrome, Hirschsprung disease (disorder)
Post-inflammatory Hypomelanoses		
Read V2 Code	Term ID	Description
M2920	All	Post inflammatory hypopigmentation
M170.	All	Lichen planus
M1700	All	Lichen planus actinicus
M1701	All	Lichen planus annularis
M1702	All	Lichen planus atrophicus
M1703	All	Lichen planus bullosus
M1704	All	Lichen planus hypertrophicus
M1705	All	Lichen planus linearis
M1707	All	Lichen planus obtusus
M1708	All	Subacute active lichen planus
M1709	All	Follicular lichen planus
M170z	All	Lichen planus NOS
M17y0	All	Lichen ruber moniliforme
M1650	All	Pityriasis alba
M2102	All	Lichen sclerosus and atrophicus
K276.	All	Balanitis xerotica obliterans
Read CTV3 Code	Term ID	Description
Xa0WM	All	Post inflammatory hypopigmentation
M170.	All	Lichen planus
X507Y	All	Confluent lichen planus
X507Z	All	Micropapular lichen planus
X507a	All	Guttate lichen planus
X507b	All	Follicular lichen planus
M1703	All	Bullous lichen planus
M1701	All	Annular lichen planus
M1704	All	Hypertrophic lichen planus

M1702	All	Atrophic lichen planus
M1705	All	Linear lichen planus
X507c	All	Zosteriform lichen planus
M1700	All	Acintic lichen planus
X507d	All	Post inflammatory hyperpigmentation in lichen planus
X507e	All	Wickham's striae in lichen planus
X507f	All	Lichen planus - lupus erythematosus overlap
X507g	All	Lichen planus pemphigoides
X507h	All	Site-specific lichen planus
X507i	All	Lichen planus of scalp
X507j	All	Lichen planus of palms and soles
X507k	All	Ulcerative lichen planus of palms and soles
X507n	All	Mutilating lichen planus of fingers and toes
X507l	All	Lichen planus of nail
X507w	All	Genital lichen planus
X408F	All	Lichen planus of vulva
X507y	All	Erosive lichen planus of vulva
X507z	All	Lichen planus of penis
X5080	All	Lichen planus of glans penis
M1707	All	Lichen planus obtusus
M1708	All	Subacute active lichen planus
M170z	All	Lichen planus NOS
Myu32	All	[X]Other lichen planus
M17y0	All	Lichen ruber moniliforme
M1650	All	Pityriasis alba
M2102	All	Lichen sclerosus
X50FC	All	Genital lichen sclerosus
K276.	All	Balanitis xerotica obliterans
X50FE	All	Lichen sclerosus of vulva
X50FF	All	Extra genital lichen sclerosus
X50FG	All	Guttate lichen sclerosus

SNOMED Code	Term ID	Description
277787003		Post-inflammatory hypopigmentation (disorder)
403272001		Post-infective hypomelanosis (disorder)
403276003		Acquired hypomelanosis of uncertain etiology (disorder)
4776004		Lichen planus (disorder)
263797007		Lichen planus-like (qualifier value)
4459000		Linear lichen planus (disorder)
6111009		Bullous lichen planus (disorder)
238666005		Lichen planus of lips (disorder)
201001005		Lichen planus obtusus (disorder)
200999007		Actinic lichen planus (disorder)
238658001		Lichen planus of nail (disorder)
238668006		Genital lichen planus (disorder)
201000006		Annular lichen planus (disorder)
238647005		Guttate lichen planus (disorder)
237112004		Lichen planus of vulva (disorder)
400108007		Flexural lichen planus (disorder)
238655003		Lichen planus of scalp (disorder)
44509000		Linear lichen planus (disorder)
25858008		Atrophic lichen planus (disorder)
238670002		Lichen planus of penis (disorder)
238645002		Confluent lichen planus (disorder)
717061002		Lichen planus pigmentosus (disorder)
238648000		Zosteriform lichen planus (disorder)
238653005		Lichen planus pemphigoides (disorder)
68266006		Hypertrophic lichen planus (disorder)
238646001		Micropapular lichen planus (disorder)
64540004		Lichen planopilaris (disorder)
238654004		Site-specific lichen planus (disorder)
238652000		Lichen planus-lupus erythematosus overlap (disorder)
403198004		Lichenoid actinic keratosis (disorder)
723003004		Acute eruptive lichen planus (disorder)
238671003		Lichen planus of glans penis (disorder)
68266006		Hypertrophic lichen planus (disorder)
201002003		Subacute active lichen planus (disorder)
720493003		Annular atrophic lichen planus (disorder)

238651007		Wickham's striae in lichen planus (disorder)
201001005		Lichen planus obtusus (disorder)
402349005		Chronic lichen planus (disorder)
238668006		Genital lichen planus (disorder)
238656002		Lichen planus of palms and soles (disorder)
402352002		Poikiloderma due to lichen planus (disorder)
721171007		Hypertrophic lichen planus of vulva (disorder)
402348002		Köbner reaction from lichen planus (disorder)
238657006		Ulcerative lichen planus of palms and soles (disorder)
238660004		Mutilating lichen planus of fingers and toes (disorder)
726476005		Lichen planus co-occurrent with onycholysis (disorder)
238649008		Post-inflammatory hyperpigmentation in lichen planus (disorder)
402296004		Pityriasis alba (disorder)
402298003		Diffuse pityriasis alba (disorder)
402297008		Localised pityriasis alba (disorder)
25674000		Lichen sclerosus et atrophicus (disorder)
402423004		Adult lichen sclerosus (disorder)
782666006		Lichen sclerosus of anus (disorder)
238934003		Guttate lichen sclerosus (disorder)
238932004		Genital lichen sclerosus (disorder)
700082001		Lichen sclerosus of penis (disorder)
26348009		Lichen sclerosus et atrophicus of the vulva (disorder)
402424005		Childhood lichen sclerosus (disorder)
403566002		Anogenital lichen sclerosus (disorder)
238933009		Extragenital lichen sclerosus (disorder)
402714001		Lichen sclerosus of male genitalia (disorder)
402715000		Lichen sclerosus of female genitalia (disorder)
402422009		Bullous extragenital lichen sclerosus (disorder)
721199003		Prepubertal lichen sclerosus of vulva (disorder)
403568001		Localized extragenital lichen sclerosus (disorder)
402421002		Generalized extragenital lichen sclerosus (disorder)
403564004		Lichen sclerosus of penis, childhood form (disorder)
111023000		Lichen sclerosus et atrophicus, bullous type (disorder)
403565003		Vulval lichen sclerosus, childhood form (disorder)
198033005		Balanitis xerotica obliterans (disorder)
Post Traumatic Leukoderma		
SNOMED Code	Term ID	Description
402622001		Hypomelanosis due to scarring (disorder)
18655006		Depigmentation (morphologic abnormality)
23006000		Hypopigmentation of skin (disorder)
398656003		Acquired hypomelanotic disorder (disorder)
Para-Malignant Hypomelanoses		

Read V2 Code	Term ID	Description
B621.	All	Mycosis fungoides
B6210	All	Mycosis fungoides of unspecified site
B6211	All	Mycosis fungoides of lymph nodes of head, face and neck
B6212	All	Mycosis fungoides of intrathoracic lymph nodes
B6213	All	Mycosis fungoides of intra-abdominal lymph nodes
B6214	All	Mycosis fungoides of lymph nodes of axilla and upper limb
B6215	All	Mycosis fungoides of lymph nodes of inguinal region and leg
B6216	All	Mycosis fungoides of intrapelvic lymph nodes
B6217	All	Mycosis fungoides of spleen
B6218	All	Mycosis fungoides of lymph nodes of multiple sites
B621z	All	Mycosis fungoides NOS
BBI..	All	[M]Mycosis fungoides
BBIO.	All	[M]Mycosis fungoides
BBI1.	All	[M]Sezary's disease
BBIz.	All	[M]Mycosis fungoides NOS
B62xX	All	0th and unspecif peripheral & cutaneous T-cell lymphomas
B62E7	All	Subcutaneous panniculitis like T-cell lymphoma
BBmD.	All	[M]Cutaneous lymphoma
B622.	All	Sezary's disease
B6220	All	Sezary's disease of unspecified site
B6221	All	Sezary's disease of lymph nodes of head, face and neck
B6222	All	Sezary's disease of intrathoracic lymph nodes
B6223	All	Sezary's disease of intra-abdominal lymph nodes
B6224	All	Sezary's disease of lymph nodes of axilla and upper limb
B6225	All	Sezary's disease of lymph nodes of inguinal region and leg
B6226	All	Sezary's disease of intrapelvic lymph nodes
B6227	All	Sezary's disease of spleen
B6228	All	Sezary's disease of lymph nodes of multiple sites
B622z	All	Sezary's disease NOS
BBEA.	All	Amelanotic melanoma
Read CTV3 Code	Term ID	Description
B621.	All	Mycosis fungoides
XaQbT	All	Poikiloderma vasculare atrophicans
X78hm	All	Mycosis fungoides of skin
B6210	All	Mycosis fungoides of unspecified site
B6211	All	Mycosis fungoides of lymph nodes of head, face and neck
B6212	All	Mycosis fungoides of intrathoracic lymph nodes
B6213	All	Mycosis fungoides of intra-abdominal lymph nodes
B6214	All	Mycosis fungoides of lymph nodes of axilla and upper limb
B6215	All	Mycosis fungoides of lymph nodes of inguinal region and leg
B6216	All	Mycosis fungoides of intrapelvic lymph nodes
B6217	All	Mycosis fungoides of spleen

B6218	All	Mycosis fungoides of lymph nodes of multiple sites
B621z	All	Mycosis fungoides NOS
B622.	All	Sezary's disease
B6220	All	Sezary's disease of unspecified site
B6221	All	Sezary's disease of lymph nodes of head, face and neck
B6222	All	Sezary's disease of intrathoracic lymph nodes
B6223	All	Sezary's disease of intra-abdominal lymph nodes
B6224	All	Sezary's disease of lymph nodes of axilla and upper limb
B6225	All	Sezary's disease of lymph nodes of inguinal region and leg
B6226	All	Sezary's disease of intrapelvic lymph nodes
B6227	All	Sezary's disease of spleen
B6228	All	Sezary's disease of lymph nodes of multiple sites
B622z	All	Sezary's disease NOS
X78hn	All	Sezary's disease of skin
X78hl	All	Cutaneous lymphoma
XaYin	All	Cutaneous follicle centre lymphoma
Xa0Sz	All	Cutaneous/peripheral T-cell lymphoma
XaYjf	All	Subcutaneous panniculitis like T-cell lymphoma
ByuDD	All	[X]0th and unspecif peripheral & cutaneous T-cell lymphomas
XaYjl	All	Primary cutaneous CD30 antigen positive large T-cell lymphoma
XaOCE	All	Amelanotic malignant melanoma of skin
SNOMED Code	Term ID	Description
90120004		Mycosis fungoides (morphologic abnormality)
118618005		Mycosis fungoides (disorder)
765328000		Classic mycosis fungoides (disorder)
404115006		Bullous mycosis fungoides (disorder)
94714002		Mycosis fungoides of spleen (disorder)
404117003		Spongiotic mycosis fungoides (disorder)
68129100011910		History of mycosis fungoides (situation)
5		
418628003		Follicular mycosis fungoides (morphologic abnormality)
404113004		Tumour stage mycosis fungoides (disorder)
404118008		Syrngotropic mycosis fungoides (disorder)
404112009		Granulomatous mycosis fungoides (disorder)
404114005		Erythrodermic mycosis fungoides (disorder)
404110001		Hypomelanocytic mycosis fungoides (disorder)
404109006		Folliculotropic mycosis fungoides (disorder)
404108003		Pokilodermatous mycosis fungoides (disorder)
404107008		Patch/plaque stage mycosis fungoides (disorder)
404116007		Mycosis fungoides with systemic infiltration (disorder)
94708009		Mycosis fungoides of intrapelvic lymph nodes (disorder)

94707004		Mycosis fungoides of intra-abdominal lymph nodes (disorder)
188627002		Mycosis fungoides of lymph nodes of multiple sites (disorder)
404111002		Lymphomatoid papulosis-associated mycosis fungoides (disorder)
404104001		Lymphomatoid papulosis type B mycosis fungoides-like (disorder)
94715001		Mycosis fungoides of extranodal AND/OR solid organ site (disorder)
94709001		Mycosis fungoides of intrathoracic lymph nodes (disorder)
94711005		Mycosis fungoides of lymph nodes of head, face AND/OR neck (disorder)
94710006		Mycosis fungoides of lymph nodes of axilla AND/OR upper limb (disorder)
188627002		Mycosis fungoides of lymph nodes of multiple sites (disorder)
94712003		Mycosis fungoides of lymph nodes of inguinal region AND/OR lower limb (disorder)
28054005		Cutaneous T-cell lymphoma, no International Classification of Diseases for oncology subtype (morphologic abnormality)
40012207		Primary cutaneous T-cell lymphoma (disorder)
277613000		Cutaneous/peripheral T-cell lymphoma (disorder)
404128004		CD-30 negative cutaneous T-cell lymphoma (disorder)
419283005		Primary cutaneous T-cell lymphoma - category (morphologic abnormality)
128804002		Primary cutaneous CD30 antigen positive T-cell lymphoproliferative disorder (morphologic abnormality)
450908002		Primary cutaneous gamma-delta T-cell lymphoma (morphologic abnormality)
12257100011910 6		History of primary cutaneous T-cell lymphoma (situation)
419018000		Primary cutaneous large T-cell lymphoma - category (morphologic abnormality)
402880009		Primary cutaneous large T-cell lymphoma (disorder)
404133000		Subcutaneous panniculitic cutaneous T-cell lymphoma (disorder)
404128004		CD-30 negative cutaneous T-cell lymphoma (disorder)
787198005		Primary cutaneous acral CD8 positive T-cell lymphoma (morphologic abnormality)
397352006		Primary cutaneous anaplastic large T-cell lymphoma, CD30-positive (morphologic abnormality)
733627006		Primary cutaneous gamma-delta-positive T-cell lymphoma (disorder)

404129007		CD-30 negative anaplastic large T-cell cutaneous lymphoma (disorder)
122571000119106		History of malignant cutaneous T-cell lymphoma (situation)
404130002		CD-30 negative pleomorphic large T-cell cutaneous lymphoma (disorder)
404126000		CD-30 positive pleomorphic large T-cell cutaneous lymphoma (disorder)
419283005		Primary cutaneous T-cell lymphoma - category (morphologic abnormality)
450908002		Primary cutaneous gamma-delta T-cell lymphoma - category (morphologic abnormality)
765136002		Primary cutaneous CD8 positive aggressive epidermotropic cytotoxic T-cell lymphoma (disorder)
128875000		Primary cutaneous CD30 antigen positive large T-cell lymphoma (disorder)
733895005		Primary cutaneous CD8 positive aggressive epidermotropic cytotoxic T-cell lymphoma (morphologic abnormality)
419586003		Primary cutaneous T-cell lymphoma, large cell, CD30-negative (morphological abnormality)
118611004		Sezary's disease (disorder)
4950009		Sezary's disease (morphologic abnormality)
255101006		Sezary disease of skin (disorder)
95263006		Sezary's disease of spleen (disorder)
188632001		Sezary's disease of intra-abdominal lymph nodes (disorder)
188635004		Sezary's disease of intrapelvic lymph nodes (disorder)
188631008		Sezary's disease of intrathoracic lymph nodes (disorder)
188637007		Sezary disease of lymph nodes of multiple sites (disorder)
95264000		Sézary's disease of extranodal AND/OR solid organ site (disorder)
188633006		Sézary's disease of lymph nodes of axilla and upper limb (disorder)
95260009		Sézary's disease of lymph nodes of head, face AND/OR neck (disorder)
188634000		Sézary's disease of lymph nodes of inguinal region and lower limb (disorder)
95261008		Sézary's disease of lymph nodes of inguinal region AND/OR lower limb (disorder)
419392005		Primary cutaneous lymphoma (morphologic abnormality)
82321000000106		Tumour and germline whole genome sequencing for anaplastic lymphoma kinase negative anaplastic large cell lymphoma including primary cutaneous subtypes (procedure)
403274000		Hypomelanosis surrounding malignant melanoma (disorder)

402563000		Metastatic malignant melanoma with diffuse hypermelanosis (disorder)
276751004		Amelanotic malignant melanoma of skin (disorder)
70594002		Amelanotic melanoma (morphologic abnormality)
404110001		Hypomelanotic mycosis fungoides (disorder)
402623006		Hypomelanosis surrounding melanocytic neoplasm (disorder)

Occupational/drug induced hypomelanoses

Read V2 Code	Term ID	Description
M293.	All	Hypopigmentation
Read CTV3 Code	Term ID	Description
X508z	All	Occupational vitiligo
X78VE	All	Chemically-induced hypomelanosis
X50Gx	All	Drug-induced hypomelanosis
Xa1aV	All	Chemically-induced hypomelanosis
M2950	All	Leucoderma aestivale
M295.	All	Acquired hypomelanosis
SNOMED Code	Term ID	Description
238713002		Occupational vitiligo (disorder)
280962005		Chemically-induced hypomelanosis (disorder)
402622001		Hypomelanosis due to scarring (disorder)
403807001		Phylloid hypomelanosis (disorder)
398656003		Acquired hypomelanotic disorder (disorder)
238999005		Drug-induced hypomelanosis (disorder)
403698000		Laser-induced hypopigmentation (disorder)
402622001		Hypomelanosis due to scarring (disorder)
280962005		Chemically-induced hypomelanosis (disorder)
403692004		Hypomelanosis due to cryotherapy (disorder)
403744007		Arsenic-induced "rain-drop" hypomelanosis (disorder)
403698000		Laser-induced hypopigmentation (disorder)
201290009		Leukoderma estivale (disorder)

Para-infectious hypopigmentation

Read V2 Code	Term ID	Description
AB10.	All	Pityriasis versicolor
Read CTV3 Code	Term ID	Description
AB10.	All	Pityriasis versicolor

SNOMED Code	Term ID	Description
56454009		Pityriasis versicolor (disorder)
18097004		Malassezia (organism)
721794002		Infection caused by Malassezia (disorder)
402133004		Malassezia infection of the skin (disorder)
29619007		Malassezia furfur (organism)
Others (including Melasma, Morphoea, Idiopathic guttate hypomelanosis, Xeroderma pigmentosum, Progressive macular hypomelanosis, Nevus depigmentosus, Cutaneous sarcoidosis)		
Read V2 Code	Term ID	Description
M290.	All	Melasma
M2900	All	Chloasma bronzinum
M2901	All	Chloasma cachecticorum
M2902	All	Chloasma caloricum
M2903	All	Chloasma gravidarum
M2903	All	Chloasma gravidarum
M2903	All	Chloasma gravidarum
M290z	All	Chloasma NOS
M2103	All	Morphoea
M2104	All	Linear Morphoea
M210.	All	Circumscribed scleroderma
M2100	All	Unspecified circumscribed scleroderma
M2101	All	Localised dermatosclerosis
M210z	All	Circumscribed scleroderma NOS
PH322	All	Xeroderma pigmentosum
B8E9.	All	[M]Nonpigmented naevus
AD530	All	Lupus Pernio
AD53.	All	Sarcoidosis of skin
Read CTV3 Code	Term ID	Description
M290.	All	Melasma
Xa1aM	All	Drug-induced melasma
M2900	All	Chloasma bronzinum
M2901	All	Chloasma cachecticorum
M2902	All	Chloasma caloricum
M2904	All	Chloasma hepaticum
M2905	All	Chloasma toxicum
M2906	All	Chloasma traumaticum
M290z	All	Chloasma NOS
M2903	All	Melasma of pregnancy
Xa1aM	All	Drug-induced melasma

M2103	All	Morphea
X7053	All	Generalised morphea
M2101	All	Localised morphea
M2100	All	Unspecified circumscribed scleroderma
M210z	All	Circumscribed scleroderma NOS
X7055	All	Linear morphea
PH322	All	Xeroderma pigmentosum
X78Cz	All	Xeroderma pigmentosum group A
X78D0	All	Xeroderma pigmentosum group B
X78D1	All	Xeroderma pigmentosum group C
X78D2	All	Xeroderma pigmentosum group D
X78D3	All	Xeroderma pigmentosum group E
X78D4	All	Xeroderma pigmentosum group F
X78D5	All	Xeroderma pigmentosum group G
X78D6	All	Xeroderma pigmentosum XP variant
X78D7	All	De Sanctis-Cacchione syndrome
X78D8	All	Xerodermoid, pigmented
X50lw	All	Symmetrical progressive leucopathy
X20GW	All	Cutaneous sarcoid
X20GX	All	Orofacial sarcoid
X20GY	All	Lupus pernio
X5089	All	Acute skin sarcoidosis
X508A	All	Sarcoidosis-induced erythema nodosum
X508B	All	Lofgrens syndrome
X508C	All	Maculopapular sarcoidosis
X508D	All	Chronic skin sarcoidosis
X508E	All	Sarcoidosis in scar
X508F	All	Papular sarcoidosis
X508G	All	Lichenoid sarcoidosis
X508H	All	Nodular sarcoidosis
X508I	All	Angiolupoid sarcoidosis
X00YQ	All	Sarcoid skin of eyelid
X20G5	All	Sarcoid dactylitis
X50Dy	All	Subacute nodular migratory panniculitis
X50Dz	All	Subcutaneous lipogranulomatosis
SNOMED Code	Term ID	Description
36209000		Melasma
201274009		Chloasma bronzinum (disorder)
201275005		Chloasma cachecticum (disorder)
201276006		Chloasma caloricum (disorder)
201277002		Chloasma hepaticum (disorder)
201278007		Chloasma toxicum (disorder)
280955001		Drug-induced melasma (disorder)

79840007		Idiopathic chloasma (disorder)
111208003		Melasma gravidarum (disorder)
54397000		Symptomatic chloasma (disorder)
201279004		Chloasma traumaticum (disorder)
201049004		Morphea (disorder)
128458002		Plaque morphea (disorder)
22784002		Linear scleroderma (disorder)
403521006		Guttate morphea (disorder)
201048007		Localised morphea (disorder)
7513007		Generalized morphea (disorder)
403522004		Subcutaneous morphea (disorder)
51156002		Coup de sabre scleroderma (disorder)
403523009		Disabling pansclerotic morphea of children (disorder)
128460000		Diffuse cutaneous scleroderma (disorder)
403524003		Scleroderma-like secondary cutaneous sclerosis (disorder)
1717003		Idiopathic guttate hypomelanosis (disorder)
711154007		Guttate hypopigmentation and punctate palmoplantar keratoderma with or without ectopic calcification (disorder)
44600005		Xeroderma pigmentosum (disorder)
56048001		Xeroderma pigmentosum, group E (disorder)
25784009		Xeroderma pigmentosum, group C (disorder)
36454001		Xeroderma pigmentosum, group G (disorder)
1073003		Xeroderma pigmentosum, group B (disorder)
68637004		Xeroderma pigmentosum, group D (disorder)
42530008		Xeroderma pigmentosum, group F (disorder)
43477006		Xeroderma pigmentosum, group A (disorder)
73663008		Neurologic xeroderma pigmentosum (disorder)
88877002		Xeroderma pigmentosum, variant form (disorder)
7806002		Non-neurologic xeroderma pigmentosum (disorder)
719819004		Xeroderma pigmentosum and Cockayne syndrome complex (disorder)
239083007		Symmetrical progressive leucopathy (disorder)
763368004		Familial progressive hyper and hypopigmentation of skin (disorder)
403541001		Nevus depigmentosus
112680001		Naevus depigmentosus
55941000		Cutaneous sarcoidosis (disorder)
238680003		Papular sarcoidosis (disorder)
238679001		Sarcoidosis in scar (disorder)
402369000		Atrophic sarcoidosis (disorder)
402371000		Verrucous sarcoidosis (disorder)
238681004		Lichenoid sarcoidosis (disorder)
238674006		Acute skin sarcoidosis (disorder)
402370004		Ulcerative sarcoidosis (disorder)
58870009		Sarcoidosis, anular type (disorder)

54515008		Sarcoidosis, plaque type (disorder)
80941006		Subcutaneous sarcoidosis (disorder)
870334009		Palmoplantar sarcoidosis (disorder)
238678009		Chronic skin sarcoidosis (disorder)
238677004		Maculopapular sarcoidosis (disorder)
402368008		Ichthyosiform sarcoidosis (disorder)
402373002		Hypomelanotic sarcoidosis (disorder)
9529007		Sarcoidosis, erythrodermic type (disorder)
72470008		Sarcoidosis, lupus pernio type (disorder)
402372007		Subcutaneous nodular sarcoidosis (disorder)
238675007		Sarcoidosis-induced erythema nodosum (disorder)
238676008		Lofgrens syndrome (disorder)
31541009		Lupus pernio of Besnier
231799005		Sarcoid skin of eyelid (disorder)

Appendix 2

Potential differential diagnoses for vitiligo which will be used as exclusion criteria if they appear as diagnoses in the medical record within six months of the initial diagnosis of vitiligo (six months before or after the vitiligo diagnosis). *As these conditions are extremely uncommon in the UK they will not be used in the exclusion process. Codes for these conditions are listed in Appendix 1.

Condition group	Conditions/causes included
Congenital and genetic hypomelanoses	Piebaldism Tuberous sclerosis Hypomelanosis of Ito Waardenburg syndrome Hermanski-Pudlak syndrome Griselli syndrome Menkes syndrome
Post-inflammatory hypomelanoses	Post-inflammatory leukoderma including after Atopic eczema or Psoriasis Lichen planus Pityriasis alba Lichen sclerosus
Post traumatic leukoderma	Post traumatic leukoderma
Para-malignant hypomelanoses	Cutaneous T-cell lymphoma (mycosis fungoides) Melanoma associated depigmentation
Occupational/drug induced hypomelanoses	Occupational vitiligo Other induced hypomelanoses
Para-infectious hypopigmentation	Pityriasis versicolor (or tinea versicolor) <i>Leprosy*</i> <i>Leishmaniasis*</i>
Others	Melasma Morpheoa Idiopathic guttate hypomelanosis Xeroderma pigmentosum Progressive macular hypomelanosis Nevus depigmentosus Cutaneous sarcoidosis

Appendix 3

Below is a list of the variables to be extracted and utilised for the study

Variable	Role	Data source(s)	Operational definition
Vitiligo	Case definition	OPCRD	As defined using the codes listed in Appendix 1
Vitiligo exclusion conditions	Case definition	OPCRD	As defined using the codes listed in Appendix 1 and summarised in Appendix 2
Melanoma	Study outcome	OPCRD	Identified using a expert review list of clinical diagnosis codes from the primary care record. Clinical codes listed in Appendix 4.
Squamous cell carcinoma (SCC)	Study outcome	OPCRD	Identified using a expert review list of clinical diagnosis codes from the primary care record. Clinical codes listed in Appendix 4.
Basal cell carcinoma (BCC)	Study outcome	OPCRD	Identified using a expert review list of clinical diagnosis codes from the primary care record. Clinical codes listed in Appendix 4.
Actinic keratoses (AK)	Study outcome	OPCRD	Identified using a expert review list of clinical diagnosis codes from the primary care record. Clinical codes listed in Appendix 4.
Age	Baseline characteristic, predictor variable	OPCRD	Defined as age at the start of follow up
Gender	Baseline characteristic, predictor variable	OPCRD	Primary care recorded patient gender

Socioeconomic status (SES)	Baseline characteristic, predictor variable	OPCRD	Defined using patient index of multiple deprivation quintile
Ethnicity	Baseline characteristic, predictor variable	OPCRD	Defined using office of national statistics census categories using clinically coded ethnicity data
Smoking status	Baseline characteristic, predictor variable	OPCRD	Using most recent clinically recorded smoking status information
Alcohol use	Baseline characteristic, predictor variable	OPCRD	Using most recent clinically recorded alcohol use status information
Body mass index (BMI)	Baseline characteristic, predictor variable	OPCRD	Defined using most recent clinically recorded BMI information
Death	Censoring event	OPCRD	Identified from coding in the clinical record
Deregistration from GP	Censoring event	OPCRD	Identified from coding in the clinical record
Atrial fibrillation	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
Angina	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
Myocardial infarction	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
Congestive heart failure	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
Stroke	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
Diabetes type	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
Hyperlipidaemia	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
Hypertension	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
Chronic kidney disease stages 3-5	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition and lab test results

Chronic obstructive pulmonary disease,	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
Asthma	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
Chronic liver disease	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
dementia	Baseline characteristic, predictor variable	OPCRD	Identified using clinical codes for the condition
immunotherapy use	Potential predictor variable	OPCRD	Identified using prescription records for immunotherapy
Phototherapy treatment	Potential predictor variable	OPCRD	Identified using prescription records and clinical codes for phototherapy

Appendix 4

Read codes and SNOMED codes to be used to identify skin cancers

Melanoma skin cancer		
Read V2 Code	Term ID	Description
BBE1.	All	[M] Melanoma NOS
BBE10	All	[M] Malignant melanoma, regressing
BBE11	All	[M] Desmoplastic melanoma, malignant
7G03J	All	Excision of melanoma
BBE4.	All	[M] Balloon cell melanoma
BBEA.	All	[M] Amelanotic melanoma
BBEC.	All	[M] Malignant melanoma in junctional naevus
BBED.	All	[M] Precancerous melanosis NOS
BBEE.	All	[M] Malignant melanoma in precancerous melanosis
BBEF.	All	[M] Hutchinson's melanotic freckle
BBEG.	All	[M] Malignant melanoma in Hutchinson's melanotic freckle
BBEG0	All	[M] Acral lentiginous melanoma, malignant
BBEH.	All	[M] Superficial spreading melanoma
BBEM.	All	[M] Malignant melanoma in giant pigmented naevus
BBEP.	All	[M] Epithelioid cell melanoma
BBEQ.	All	[M] Spindle cell melanoma, NOS
BBER.	All	[M] Spindle cell melanoma, type A
BBES.	All	[M] Spindle cell melanoma, type B
BBET.	All	[M] Mixed epithelioid and spindle melanoma
BBEX.	All	[M] Melanoma in situ
BBEz.	All	[M] Naevi or melanoma, NOS
14250	All	H/O Malignant Melanoma
B828.	All	Melanoma in situ of skin
B8280	All	Melanoma in situ of lip
B8281	All	Melanoma in situ of eyelid, including canthus
B8282	All	Melanoma in situ of ear and external auricular canal
B8283	All	Melanoma in situ of scalp and neck
B8284	All	Melanoma in situ of trunk
B8285	All	Melanoma in situ of upper limb, including shoulder

B8286	All	Melanoma in situ of lower limb, including hip
B8287	All	Melanoma in situ of scalp
B8288	All	Melanoma in situ of back of hand
B8289	All	Melanoma in situ of back
B828W	All	Melanoma in situ, unspecified
B828X	All	Melanoma in situ of other and unspecified parts of face
B509.	All	Malignant melanoma of eye
B32..	All	Malignant melanoma of skin
B321.	All	Malignant melanoma of eyelid, including canthus
B322.	All	Malignant melanoma of ear and external auricular canal
B320.	All	Malignant melanoma of lip
B3220	All	Malignant melanoma of auricle (ear)
B3221	All	Malignant melanoma of external auditory meatus
		Malignant melanoma of ear and external auricular canal
B322z	All	NOS
B323.	All	Malignant melanoma of other and unspecified parts of face
B3230	All	Malignant melanoma of external surface of cheek
B3231	All	Malignant melanoma of chin
B3232	All	Malignant melanoma of eyebrow
B3233	All	Malignant melanoma of forehead
B3234	All	Malignant melanoma of external surface of nose
B3235	All	Malignant melanoma of temple
B323z	All	Malignant melanoma of face NOS
B324.	All	Malignant melanoma of scalp and neck
B3240	All	Malignant melanoma of scalp
B3241	All	Malignant melanoma of neck
B324z	All	Malignant melanoma of scalp and neck NOS
B325.	All	Malignant melanoma of trunk excluding scrotum
B3250	All	Malignant melanoma of axilla
B3251	All	Malignant melanoma of breast
B3252	All	Malignant melanoma of buttock
B3253	All	Malignant melanoma of groin
B3254	All	Malignant melanoma of perianal skin
B3255	All	Malignant melanoma of perineum

B3256	All	Malignant melanoma of umbilicus
B3257	All	Malignant melanoma of back
B3258	All	Malignant melanoma of chest wall
B325z	All	Malignant melanoma of trunk excluding scrotum NOS
B326.	All	Malignant melanoma of upper limb and shoulder
B3260	All	Malignant melanoma of shoulder
B3261	All	Malignant melanoma of upper arm
B3262	All	Malignant melanoma of forearm
B3263	All	Malignant melanoma of hand
B3264	All	Malignant melanoma of finger
B3265	All	Malignant melanoma of thumb
B326z	All	Malignant melanoma of upper limb and shoulder NOS
B327.	All	Malignant melanoma of lower limb and hip
B3270	All	Malignant melanoma of hip
B3271	All	Malignant melanoma of thigh
B3272	All	Malignant melanoma of knee
B3273	All	Malignant melanoma of popliteal fossa area
B3274	All	Malignant melanoma of lower leg
B3275	All	Malignant melanoma of ankle
B3276	All	Malignant melanoma of heel
B3277	All	Malignant melanoma of foot
B3278	All	Malignant melanoma of toe
B3279	All	Malignant melanoma of great toe
B327z	All	Malignant melanoma of lower limb and hip NOS
B328.	All	Malignant melanoma stage IA
B329.	All	Malignant melanoma stage IB
B32A.	All	Malignant melanoma stage IIA
B32B.	All	Malignant melanoma stage IIB
B32C.	All	Malignant melanoma stage IIC
B32D.	All	Malignant melanoma stage IIIA
B32E.	All	Malignant melanoma stage IIIB
B32F.	All	Malignant melanoma stage IIIC
B32G.	All	Malignant melanoma stage IV M1a
B32H.	All	Malignant melanoma stage IV M1b

B32J.	All	Malignant melanoma stage IV M1c
B32y.	All	Malignant melanoma of other specified skin site
B32y0	All	Overlapping malignant melanoma of skin
B32z.	All	Malignant melanoma of skin NOS
4M3..	All	Breslow depth for staging for melanoma
Read CTV3 Code	Term ID	Description
7G03J	All	Excision of melanoma
XSHw6	All	Clark melanoma level 3
XSHw7	All	Clark melanoma level 4
XSHw8	All	Clark melanoma level 5
14250	All	H/O Malignant melanoma
XSHw4	All	Clark melanoma level 1
XSHw5	All	Clark melanoma level 2
B8280	All	Melanoma in situ of lip
X78TH	All	In situ melanoma of skin
B8281	All	Melanoma in situ of eyelid, including canthus
B8282	All	Melanoma in situ of ear and external auricular canal
B8283	All	Melanoma in situ of scalp and neck
B8284	All	Melanoma in situ of trunk
B8285	All	Melanoma in situ of upper limb, including shoulder
B8286	All	Melanoma in situ of lower limb, including hip
XaFsS	All	Melanoma in situ of scalp
XaFsU	All	Melanoma in situ of back of hand
XaFw7	All	Melanoma in situ of back
XaFsT	All	Melanoma in situ of neck
ByuF5	All	[X] Melanoma in situ of other and unspecified parts of face
Xa99Y	All	Lentigo maligna melanoma
X78TD	All	Nodular melanoma of skin
B3270	All	Malignant melanoma of hip
B3278	All	Malignant melanoma of toe
XM0ps	All	Malignant melanoma of eye
B320.	All	Malignant melaoma of lip
B3263	All	Malignant melaoma of hand
B3276	All	Malignant melanoma of heel

X78bc	All	Malignant melanoma of iris
B3272	All	Malignant melanoma of knee
B3241	All	Malignant melanoma of neck
B32..	All	Malignant melanoma of skin
XaclU	All	Malignant melanoma stage IA
XaclV	All	Malignant melanoma stage IB
XaclW	All	Malignant melanoma stage IIA
XaclX	All	Malignant melanoma stage IIB
XaclY	All	Malignant melanoma stage IIC
XaclZ	All	Malignant melanoma stage IIIA
Xacla	All	Malignant melanoma stage IIIB
Xaclb	All	Malignant melanoma stage IIIC
Xacld	All	Malignant melanoma stage IV M1a
Xacle	All	Malignant melanoma stage IV M1b
Xaclf	All	Malignant melanoma stage IV M1c
XaFrT	All	Local recurrence of malignant melanoma of skin
X78TC	All	Superficial spreading malignant melanoma of skin
X78TD	All	Nodular malignant melanoma of skin
Xa0CE	All	Amelanotic malignant melanoma of skin
X78TE	All	Acral lentiginous melanoma of skin
XaBAw	All	Malignant blue naevus of skin
X78TF	All	Malignant melanoma arising in intradermal naevus
X78TG	All	Malignant melanoma arising in congenital naevus
XM0ps	All	Malignant melanoma of eye
B32..	All	Malignant melanoma of skin
B321.	All	Malignant melanoma of eyelid, including canthus
B322.	All	Malignant melanoma of ear and external auricular canal
B320.	All	Malignant melanoma of lip
B3220	All	Malignant melanoma of auricle (ear)
B3221	All	Malignant melanoma of external auditory meatus
B322z	All	Malignant melanoma of ear and external auricular canal
		NOS
B323.	All	Malignant melanoma of other and unspecified parts of face
B3230	All	Malignant melanoma of external surface of cheek

B3231	All	Malignant melanoma of chin
B3232	All	Malignant melanoma of eyebrow
B3233	All	Malignant melanoma of forehead
B3234	All	Malignant melanoma of external surface of nose
B3235	All	Malignant melanoma of temple
B323z	All	Malignant melanoma of face NOS
B324.	All	Malignant melanoma of scalp and neck
B3240	All	Malignant melanoma of scalp
B3241	All	Malignant melanoma of neck
B324z	All	Malignant melanoma of scalp and neck NOS
B325.	All	Malignant melanoma of trunk excluding scrotum
B3250	All	Malignant melanoma of axilla
B3251	All	Malignant melanoma of breast
B3252	All	Malignant melanoma of buttock
B3253	All	Malignant melanoma of groin
B3254	All	Malignant melanoma of perianal skin
B3255	All	Malignant melanoma of perineum
B3256	All	Malignant melanoma of umbilicus
XaClv	All	Malignant melanoma of back
XaEGU	All	Malignant melanoma of chest wall
B325z	All	Malignant melanoma of trunk excluding scrotum NOS
B326.	All	Malignant melanoma of upper limb and shoulder
B3260	All	Malignant melanoma of shoulder
B3261	All	Malignant melanoma of upper arm
B3262	All	Malignant melanoma of forearm
B3263	All	Malignant melanoma of hand
B3264	All	Malignant melanoma of finger
B3265	All	Malignant melanoma of thumb
B326z	All	Malignant melanoma of upper limb and shoulder NOS
B327.	All	Malignant melanoma of lower limb and hip
B3270	All	Malignant melanoma of hip
B3271	All	Malignant melanoma of thigh
B3272	All	Malignant melanoma of knee
B3273	All	Malignant melanoma of popliteal fossa area

B3274	All	Malignant melanoma of lower leg
B3275	All	Malignant melanoma of ankle
B3276	All	Malignant melanoma of heel
B3277	All	Malignant melanoma of foot
B3278	All	Malignant melanoma of toe
B3279	All	Malignant melanoma of great toe
B327z	All	Malignant melanoma of lower limb and hip NOS
B32y.	All	Malignant melanoma of other specified skin site
B32y0	All	Overlapping malignant melanoma of skin
B32z.	All	Malignant melanoma of skin NOS
Byu41	All	[X] Malignant melanoma of skin unspecified
XE1yl	All	Malignant melanoma of head and neck
XE1yn	All	Malignant melanoma of trunk
X78bV	All	Malignant melanoma of cornea
XE1yp	All	Malignant melanoma of upper limb
XE1yr	All	Malignant melanoma of lower limb
Xa0Di	All	Malignant melanoma of anus
X78Xx	All	Malignant melanoma of vulva
X78bw	All	Malignant melanoma of choriod
XM0ps	All	Malignant melanoma of eye
Xa0RU	All	Malignant melanoma of meninges
XaE6A	All	Melanoma associated retinopathy
ByuF6	All	[X] Melanoma in situ of other sites
XSNL7	All	Breslow depth for staging of melanoma
X78Fn	All	TNM Malignant melanoma of skin staging
X78G8	All	TNM Malignant melanoma of uvea staging
X78G9	All	TNM Malignant melanoma of iris staging
X78GA	All	TNM Malignant melanoma of ciliary body staging
X78GB	All	TNM Malignant melanoma of choriod staging
X78G5	All	TNM Malignant melanoma of eyelid staging
XaFrd	All	Metastasis from malignant melanoma of skin
X78G7	All	TNM Malignant melanoma of conjunctiva staging
Byu4.	All	[X] Melanoma and other malignant neoplasms of skin

SNOMED Code	Term ID	Description
2092003		Malignant melanoma, no International Classification of Diseases for Oncology subtype (morphologic abnormality)
255012009		Malignant melanoma of iris (disorder)
399475009		Minimal deviation melanoma (morphologic abnormality)
77986002		Melanoma in situ (morphologic abnormality)
2142002		Nodular melanoma (morphologic abnormality)
399521000		Necrotic melanoma (morphologic abnormality)
423673009		Malignant melanoma of retina (disorder)
372244006		Malignant melanoma (disorder)
726420002		Meningeal melanoma (morphologic abnormality)
276751004		Amelanotic malignant melanoma of skin (disorder)
70594002		Amelanotic melanoma (morphologic abnormality)
276821000		Malignant melanoma of anus (disorder)
103419001		Clark's melanoma level (observable entity)
177281002		Excision of melanoma (procedure)
68827007		Spindle cell melanoma (morphologic abnormality)
115223002		Nevus AND/OR melanoma (morphologic abnormality)
255015006		Malignant melanoma of ciliary body (disorder)
39274007		Balloon cell melanoma (morphologic abnormality)
21165006		Clark melanoma level 3 (finding)
83284001		Clark melanoma level 1 (finding)
276822007		Malignant melanoma of rectum (disorder)
50542000		Clark melanoma level 2 (finding)
161432005		History of malignant melanoma (situation)
16034002		Clark melanoma level 5 (finding)
1556006		Clark melanoma level 4 (finding)
109272006		Melanoma in situ of lip (disorder)
109278005		Melanoma in situ of ear (disorder)
128731008		Meningeal melanomatosis (morphologic abnormality)
109296001		Melanoma in situ of hip (disorder)
315230006		Melanoma in situ of back (disorder)
109266006		Melanoma in situ of skin (disorder)
302837001		Lentigo maligna melanoma (disorder)
109282007		Melanoma in situ of neck (disorder)
254731001		Nodular malignant melanoma of skin (disorder)
44474009		Malignant melanoma in Hutchinson's melanotic freckle (morphologic abnormality)
109270003		Melanoma in situ of face (disorder)
816204007		Nodular melanoma of mucous membrane (disorder)
109266006		Melanoma in situ of skin (disorder)
274087000		Malignant melanoma of eye (disorder)
37138001		Epithelioid cell melanoma (morphologic abnormality)
707361004		Malignant melanoma of frontal sinus (disorder)
109276009		Melanoma in situ of scalp (disorder)
188030005		Malignant melanoma of lip (disorder)
109284008		Melanoma in situ of trunk (disorder)

188068007		Malignant melanoma of hip (disorder)
698287002		Malignant melanoma of gum (disorder)
188076009		Malignant melanoma of toe (disorder)
396368008		Skin melanoma TNM finding (finding)
310498001		Malignant melanoma of back (disorder)
276821000		Malignant melanoma of anus (disorder)
255012009		Malignant melanoma of iris (disorder)
188063003		Malignant melanoma of hand (disorder)
188075008		Malignant melanoma of foot (disorder)
188070003		Malignant melanoma of knee (disorder)
93655004		Malignant melanoma of skin (disorder)
399705007		Uveal melanoma TNM finding (finding)
188038003		Malignant melanoma of chin (disorder)
399475009		Minimal deviation melanoma (morphologic abnormality)
188074007		Malignant melanoma of heel (disorder)
188046002		Malignant melanoma of neck (disorder)
698285005		Malignant melanoma of ethmoid sinus (disorder)
188052001		Malignant melanoma of groin (disorder)
866072004		Malignant melanoma of orbit (disorder)
403923002		Spindle cell malignant melanoma (disorder)
956331000000107		Malignant melanoma stage IA (finding)
956351000000100		Malignant melanoma stage IB (finding)
188045003		Malignant melanoma of scalp (disorder)
269579005		Malignant melanoma of trunk (disorder)
188069004		Malignant melanoma of thigh (disorder)
707350007		Malignant melanoma of accessory sinus (disorder)
698288007		Malignant melanoma of maxillary sinus (disorder)
68827007		Spindle cell melanoma (morphologic abnormality)
399634005		Choroidal melanoma, diffuse (morphologic abnormality)
188073001		Malignant melanoma of ankle (disorder)
254896002		Malignant melanoma of vulva (disorder)
188065005		Malignant melanoma of thumb (disorder)
188049009		Malignant melanoma of axilla (disorder)
188050009		Malignant melanoma of breast (disorder)
707362006		Malignant melanoma of sphenoidal sinus (disorder)
956411000000108		Malignant melanoma stage IIC (finding)
128732001		Mucosal lentiginous melanoma (morphologic abnormality)
403927001		Malignant melanoma of nail apparatus (disorder)
231834005		Malignant melanoma of eyelid (disorder)
423673009		Malignant melanoma of retina (disorder)
698042007		Malignant melanoma of tongue (disorder)
385347004		Clark melanoma level finding (finding)
188042000		Malignant melanoma of temple (disorder)
698286006		Malignant melanoma of palate (disorder)
956371000000109		Malignant melanoma stage IIA (finding)
109292004		Melanoma in situ of shoulder (disorder)
188064009		Malignant melanoma of finger (disorder)
956391000000108		Malignant melanoma stage IIB (finding)
188051008		Malignant melanoma of buttock (disorder)

956471000000103		Malignant melanoma stage IIIC (finding)
956431000000100		Malignant melanoma stage IIIA (finding)
255021005		Malignant melanoma of choroid (disorder)
403921000		Borderline malignant melanoma (disorder)
402559007		Congenital malignant melanoma (disorder)
372156000		Malignant melanoma - category (morphologic abnormality)
24653009		Spindle cell melanoma, type A (morphologic abnormality)
127330008		Melanoma in situ by body site (disorder)
443493003		Metastatic malignant melanoma (disorder)
188062008		Malignant melanoma of forearm (disorder)
40244008		Spindle cell melanoma, type B (morphologic abnormality)
93223008		Malignant melanoma of skin of eyebrow (disorder)
399660006		Ring melanoma of ciliary body (disorder)
698287002		Malignant melanoma of gum (disorder)
385371006		International Federation of Gynecology and Obstetrics stage for vulvar melanoma (observable entity)
51757004		Desmoplastic melanoma, malignant (morphologic abnormality)
109290007		Melanoma in situ of upper limb (disorder)
274087000		Malignant melanoma of eye (disorder)
109294003		Melanoma in situ of lower limb (disorder)
109266006		Melanoma in situ of skin (disorder)
188060000		Malignant melanoma of shoulder (disorder)
403925009		Neurotropic malignant melanoma (disorder)
55320002		Superficial spreading melanoma (morphologic abnormality)
188054000		Malignant melanoma of perineum (disorder)
402562005		Malignant melanoma animal-type (disorder)
372158004		Malignant melanoma, metastatic (morphologic abnormality)
399644007		Neurotropic melanoma, malignant (morphologic abnormality)
277530005		Malignant melanoma of meninges (disorder)
302837001		Lentigo maligna melanoma (disorder)
188040008		Malignant melanoma of forehead (disorder)
39896009		Malignant melanoma, regressing (morphologic abnormality)
403922007		Balloon cell malignant melanoma (disorder)
188061001		Malignant melanoma of upper arm (disorder)
721627007		Malignant melanoma of esophagus (disorder)
106246001		International Federation of Gynecology and Obstetrics staging system for vulvar melanoma (tumor staging)
188072006		Malignant melanoma of lower leg (disorder)
403924008		Desmoplastic malignant melanoma (disorder)
188055004		Malignant melanoma of umbilicus (disorder)
956551000000106		Malignant melanoma stage IV M1c (finding)
51757004		Desmoplastic melanoma, malignant (morphologic abnormality)
722689005		Melanoma in situ of conjunctiva (disorder)
956531000000104		Malignant melanoma stage IV M1b (finding)
188077000		Malignant melanoma of great toe (disorder)

18450009		Malignant melanoma in precancerous melanosis (morphologic abnormality)
312941005		Melanoma-associated retinopathy (disorder)
956511000000107		Malignant melanoma stage IV M1a (finding)
1556006		Clark melanoma level 4 (finding)
315036008		Melanoma in situ of back of hand (disorder)
16034002		Clark melanoma level 5 (finding)
307603002		Malignant blue nevus of skin (disorder)
313248004		Malignant melanoma of chest wall (disorder)
93640008		Malignant melanoma of skin of lip (disorder)
93637008		Malignant melanoma of skin of hip (disorder)
93650009		Malignant melanoma of skin of toe (disorder)
255004001		Malignant melanoma of conjunctiva (disorder)
109268007		Melanoma in situ of non-skin site (disorder)
271944004		Clear cell sarcoma (morphologic abnormality)
93220006		Malignant melanoma of skin of ear (disorder)
385345007		Clark system for melanoma staging (tumor staging)
109288006		Melanoma in situ of perianal skin (disorder)
403926005		Malignant melanoma of oral cavity (disorder)
93214005		Malignant melanoma of skin of back (disorder)
93638003		Malignant melanoma of skin of knee (disorder)
109266006		Melanoma in situ of skin (disorder)
109286005		Melanoma in situ of skin of breast (disorder)
93642000		Malignant melanoma of skin of neck (disorder)
93636004		Malignant melanoma in skin of hand (disorder)
93227009		Malignant melanoma of skin of foot (disorder)
12622007		Clear cell sarcoma (except of Kidney M-89643) (morphologic abnormality)
385348009		Breslow depth finding for melanoma (finding)
93225001		Malignant melanoma of skin of face (disorder)
93643005		Malignant melanoma of skin of nose (disorder)
723281005		Primary malignant melanoma of anus (disorder)
698040004		Malignant melanoma of nasal cavity (disorder)
106243009		Breslow depth staging for melanoma (observable entity)
1080941000119109		Malignant melanoma of left choroid (disorder)
93219000		Malignant melanoma of skin of chin (disorder)
109296001		Melanoma in situ of hip (disorder)
402561003		Malignant melanoma of soft tissues (disorder)
254732008		Acral lentiginous malignant melanoma of skin (disorder)
447712006		Malignant melanoma of skin of anus (disorder)
385346008		Breslow system for melanoma staging (tumor staging)
269578002		Malignant melanoma of head and neck (disorder)
448298007		Malignant melanoma of skin of penis (disorder)
448300007		Malignant melanoma of skin of vulva (disorder)
1080981000119100		Malignant melanoma of right choroid (disorder)
698044008		Malignant melanoma of palatine arch (disorder)
698045009		Malignant melanoma of buccal mucosa (disorder)
1251000119106		History of melanoma in situ of skin (situation)
396368008		Skin melanoma TNM finding (finding)

726019003		Familial malignant melanoma of skin (disorder)
93209006		Malignant melanoma of perianal skin (disorder)
93211002		Malignant melanoma of skin of ankle (disorder)
93217003		Malignant melanoma of skin of cheek (disorder)
93218008		Malignant melanoma of skin of chest (disorder)
93221005		Malignant melanoma of skin of elbow (disorder)
315230006		Melanoma in situ of back (disorder)
188033007		Malignant melanoma of auricle (ear) (disorder)
93654000		Malignant melanoma of skin of wrist (disorder)
93651008		Malignant melanoma of skin of trunk (disorder)
93649009		Malignant melanoma of skin of thigh (disorder)
93230002		Malignant melanoma of skin of groin (disorder)
93646002		Malignant melanoma of skin of scalp (disorder)
399705007		Uveal melanoma TNM finding (finding)
403920004		Minimal deviation malignant melanoma (disorder)
424190005		Malignant melanoma of unknown origin (disorder)
93226000		Malignant melanoma of skin of finger (disorder)
115561000119102		History of malignant melanoma of eye (situation)
93224002		Malignant melanoma of skin of eyelid (disorder)
352161000119100		Melanoma in situ of right upper limb (disorder)
352191000119107		Melanoma in situ of right lower limb (disorder)
109276009		Melanoma in situ of skin of scalp (disorder)
55320002		Superficial spreading melanoma (morphologic abnormality)
93215006		Malignant melanoma of skin of breast (disorder)
93213004		Malignant melanoma of skin of axilla (disorder)
698043002		Malignant melanoma of floor of mouth (disorder)
721563000		Primary malignant melanoma of vagina (disorder)
722665003		Primary malignant melanoma of cornea (disorder)
866079008		Malignant melanoma of lacrimal gland (disorder)
276751004		Amelanotic malignant melanoma of skin (disorder)
402564006		Multiple primary malignant melanomata (disorder)
16974005		Acral lentiginous melanoma, malignant (morphologic abnormality)
783736003		Malignant melanoma of mucous membrane (disorder)
93216007		Malignant melanoma of skin of buttock (disorder)
448273006		Malignant melanoma of skin of scrotum (disorder)
93223008		Malignant melanoma of skin of eyebrow (disorder)
93228004		Malignant melanoma of skin of forearm (disorder)
188069004		Malignant melanoma of thigh (disorder)
385372004		International Federation of Gynecology and Obstetrics stage finding for vulvar melanoma (finding)
866072004		Malignant melanoma of orbit (disorder)
109267002		Overlapping malignant melanoma of skin (disorder)
915007		Malignant melanoma in junctional nevus (morphologic abnormality)
254325002		Tumor-node-metastasis (TNM) malignant melanoma of skin staging (tumor staging)
93229007		Malignant melanoma of skin of forehead (disorder)
254347002		Tumor-node-metastasis (TNM) malignant melanoma of iris staging (tumor staging)

9364004		Malignant melanoma of skin of perineum (disorder)
188044004		Malignant melanoma of scalp and/or neck (disorder)
93652001		Malignant melanoma of skin of umbilicus (disorder)
449636007		Malignant melanoma of skin of lower leg (disorder)
449637003		Malignant melanoma of skin of upper arm (disorder)
424487008		Malignant melanoma of skin of upper lip (disorder)
424302003		Malignant melanoma of skin of lower lip (disorder)
915007		Malignant melanoma in junctional nevus (morphologic abnormality)
956451000000107		Malignant melanoma stage IIIB (finding)
351961000119109		Malignant melanoma of skin of right arm (disorder)
399660006		Ring melanoma of ciliary body (disorder)
254343003		Tumor-node-metastasis (TNM) malignant melanoma of eyelid staging (tumor staging)
698041000		Malignant melanoma of vestibule of mouth (disorder)
722543005		Primary malignant melanoma of anal canal (disorder)
402556000		Malignant melanoma (radial growth phase) (disorder)
254349004		Tumor-node-metastasis (TNM) malignant melanoma of choroid staging (tumor staging)
188071004		Malignant melanoma of popliteal fossa area (disorder)
423447006		Malignant melanoma of skin of lower eyelid
423494003		Malignant melanoma of skin of upper eyelid (disorder)
403714009		Psoralen and long-wave ultraviolet radiation therapy-associated malignant melanoma (disorder)
314987003		Metastasis from malignant melanoma of skin (disorder)
402558004		Malignant melanoma (vertical growth phase) (disorder)
103419001		Clark's melanoma level (observable entity)
75931002		Malignant melanoma of giant pigmented nevus (morphologic abnormality)
50813003		Mixed epithelioid and spindle cell melanoma (morphologic abnormality)
109280004		Melanoma in situ of external auditory canal (disorder)
399521000		Necrotic melanoma (morphologic abnormality)
830195005		Malignant melanoma with B-Raf proto-oncogene, serine/threonine kinase V600E mutation (morphologic abnormality)
830150003		Malignant melanoma with B-Raf proto-oncogene, serine/threonine kinase V600E mutation (disorder)
402560002		Materno-fetal metastatic malignant melanoma
18450009		Malignant melanoma in precancerous melanosis (morphologic abnormality)
423280002		Malignant melanoma of skin of canthus of eye (disorder)
109288006		Melanoma in situ of perianal skin (disorder)
402557009		In situ acral lentiginous malignant melanoma (disorder)
109286005		Melanoma in situ of skin of breast (disorder)
352201000119105		Malignant melanoma of skin of left upper limb (disorder)
396369000		pTis: Melanoma in situ (melanoma of the skin) (finding)
1081021000119100		Malignant melanoma of skin of left lower limb (disorder)
93648001		Malignant melanoma of skin of temporal region (disorder)
109274007		Melanoma in situ of eyelid, including canthus (disorder)

188034001		Malignant melanoma of external auditory meatus (disorder)
352001000119100		Malignant melanoma of skin of right lower limb (disorder)
254734009		Malignant melanoma arising in congenital nevus (disorder)
866082003		Malignant melanoma of lacrimal drainage system (disorder)
314976006		Local recurrence of malignant melanoma of skin (disorder)
396391007		pM1b: Metastasis to lung (melanoma of the skin) (finding)
396518001		Distance of malignant melanoma from deep margin (observable entity)
254733003		Malignant melanoma arising in intradermal nevus (disorder)
188048001		Malignant melanoma of trunk (excluding scrotum) (navigational concept)
93210001		Malignant melanoma of skin of abdomen (disorder)
402564006		Multiple primary malignant melanomata (disorder)
115561000119102		History of malignant melanoma of eye (situation)
93647006		Malignant melanoma of skin of shoulder (disorder)
44474009		Malignant melanoma in Hutchinson's melanotic freckle (morphologic abnormality)
75931002		Malignant melanoma in giant pigmented nevus (morphologic abnormality)
396517006		Surgical deep margin involved by malignant melanoma (finding)
396400002		Surgical lateral margin involved by in situ melanoma (finding)
399634005		Choroidal melanoma, diffuse (morphologic abnormality)
396516002		Surgical deep margin uninvolved by malignant melanoma (finding)
396399009		Surgical lateral margin uninvolved by in situ melanoma (finding)
399501001		pT1: Tumor limited to the iris (iris) (uveal melanoma) (finding)
396513005		Surgical lateral margin involved by malignant melanoma (finding)
403274000		Hypomelanosis surrounding malignant melanoma (disorder)
396512000		Surgical lateral margin uninvolved by malignant melanoma (finding)
39896009		Malignant melanoma, regressing (morphologic abnormality)
396511007		Distance of in situ melanoma from closest lateral margin (observable entity)
396391007		pM1b: Metastasis to lung (melanoma of the skin) (finding)
402563000		Metastatic malignant melanoma with diffuse hypermelanosis (disorder)
866073009		Malignant melanoma of overlapping lesion of eye and adnexa (disorder)
396515003		Distance of malignant melanoma from closest lateral margin (observable entity)
399679009		pT4: Tumor with extraocular extension (iris) (uveal melanoma) (finding)

396517006		Surgical deep margin involved by malignant melanoma (finding)
396400002		Surgical lateral margin involved by in situ melanoma (finding)
254346006		Tumor-node-metastasis (TNM) malignant melanoma of uvea staging (tumor staging)
399717009		Surgical deep margin involvement by melanoma cannot be assessed (finding)
396382008		pN1: Metastasis in one regional lymph node (melanoma of the skin) (finding)
189324006		Melanoma in situ of skin of scalp and/or neck (disorder)
399385006		Surgical lateral margin involvement by melanoma cannot be assessed (finding)
188032002		Malignant melanoma of ear and/or external auditory canal (disorder)
402563000		Metastatic malignant melanoma with diffuse hypermelanosis (disorder)
425133002		Location of malignant melanoma in specimen with involved deep margin (observable entity)
254345005		Tumor-node-metastasis (TNM) malignant melanoma of conjunctiva staging (tumor staging)
424082007		Location of melanoma in situ in specimen with involved lateral margin (observable entity)
254348007		Tumor-node-metastasis (TNM) malignant melanoma of ciliary body staging (tumor staging)
424949006		Location of malignant melanoma in specimen with unininvolved deep margin (observable entity)
18450009		Malignant melanoma in precancerous melanosis (morphologic abnormality)
396386006		pN2a: Clinically occult (microscopic) metastasis (melanoma of the skin) (finding)
396383003		pN1a: Clinically occult (microscopic) metastasis (melanoma of the skin) (finding)
399679009		pT4: Tumor with extraocular extension (iris) (uveal melanoma) (finding)
399717009		Surgical deep margin involvement by melanoma cannot be assessed (finding)
396384009		pN1b: Clinically apparent (macroscopic) metastasis (melanoma of the skin) (finding)
396387002		pN2b: Clinically apparent (macroscopic) metastasis (melanoma of the skin) (finding)
406039001		College of American Pathologists Cancer Checklist; Uveal Melanoma: Resection (record artifact)
70046009		International Federation of Gynecology and Obstetrics vulvar melanoma stage I (finding)
73055006		International Federation of Gynecology and Obstetrics vulvar melanoma stage V (finding)
65306007		International Federation of Gynecology and Obstetrics vulvar melanoma stage II (finding)
80588003		International Federation of Gynecology and Obstetrics vulvar melanoma stage IV (finding)

65536004		International Federation of Gynecology and Obstetrics vulvar melanoma stage III (finding)
396377001		pT3a: Melanoma 2.01 to 4.0 mm in thickness, no ulceration (melanoma of the skin) (finding)
396374008		pT2a: Melanoma 1.01 to 2.0 mm in thickness, no ulceration (melanoma of the skin) (finding)
396386006		pN2a: Clinically occult (microscopic) metastasis (melanoma of the skin) (finding)
396383003		pN1a: Clinically occult (microscopic) metastasis (melanoma of the skin) (finding)
396378006		pT3b: Melanoma 2.01 to 4.0 mm in thickness, with ulceration (melanoma of the skin) (finding)
396375009		pT2b: Melanoma 1.01 to 2.0 mm in thickness, with ulceration (melanoma of the skin) (finding)
399602001		pT1c: Tumor limited to the iris with melanomalytic glaucoma (iris) (uveal melanoma) (finding)
396387002		pN2b: Clinically apparent (macroscopic) metastasis (melanoma of the skin) (finding)
396384009		pN1b: Clinically apparent (macroscopic) metastasis (melanoma of the skin) (finding)
399602001		pT1c: Tumor limited to the iris with melanomalytic glaucoma (iris) (uveal melanoma) (finding)
396380000		pT4a: Melanoma greater than 4.0 mm in thickness, no ulceration (melanoma of the skin) (finding)
396381001		pT4b: Melanoma greater than 4.0 mm in thickness, with ulceration (melanoma of the skin) (finding)
396388007		pN2c: Satellite or in-transit metastasis without nodal metastasis (melanoma of the skin) (finding)
399511008		pT1b: Tumor limited to the iris (more than 3 clock hours in size) (iris) (uveal melanoma) (finding)
422796005		Location of melanoma in situ in specimen with uninvolved lateral margin (observable entity)
396373002		pT2: Melanoma 1.01 to 2.0 mm in thickness, with or without ulceration (melanoma of the skin) (finding)
396376005		pT3: Melanoma 2.01 to 4.0 mm in thickness, with or without ulceration (melanoma of the skin) (finding)
396370004		pT1: Melanoma 1.0 mm or less in thickness, with or without ulceration (melanoma of the skin) (finding)
396390008		pM1a: Metastasis to skin, subcutaneous tissues, or distant lymph nodes (melanoma of the skin) (finding)
399597008		pT1a: Tumor limited to the iris (not more than 3 clock hours in size) (iris) (uveal melanoma) (finding)
406058005		College of American Pathologists Cancer Checklist; Melanoma of the Skin: Excision; Re-Excision (record artifact)
396379003		pT4: Melanoma greater than 4.0 mm in thickness, with or without ulceration (melanoma of the skin) (finding)
396381001		pT4b: Melanoma greater than 4.0 mm in thickness, with ulceration (melanoma of the skin) (finding)
399615005		pT2: Tumor confluent with or extending into the ciliary body and/or choroid (iris) (uveal melanoma) (finding)

396371000		pt1a: Melanoma 1.0 mm or less in thickness and level II or III, no ulceration (melanoma of the skin) (finding)
399615005		pt2: Tumor confluent with or extending into the ciliary body and/or choroid (iris) (uveal melanoma) (finding)
396376005		pt3: Melanoma 2.01 to 4.0 mm in thickness, with or without ulceration (melanoma of the skin) (finding)
396372007		pt1b: Melanoma 1.0 mm or less in thickness and level IV or V or with ulceration (melanoma of the skin) (finding)
396493009		pt1: Tumor 2 cm or less in greatest dimension (carcinoma of skin excluding eyelid, vulva, penis, and melanomas) (finding)
396501000		pt3: Tumor more than 5 cm in greatest dimension (carcinoma of skin excluding eyelid, vulva, penis, and melanomas) (finding)
399557005		pt3: Tumor confluent with or extending into the ciliary body and/or choroid with scleral extension (iris) (uveal melanoma) (finding)
396501000		pt3: Tumor more than 5 cm in greatest dimension (carcinoma of skin excluding eyelid, vulva, penis, and melanomas) (finding)
396385005		pn2: Metastasis in 2 to 3 regional nodes or intralymphatic regional metastasis without nodal metastasis (melanoma of the skin) (finding)
399448002		pt1: Tumor 10 mm or less in greatest diameter and 2.5 mm or less in greatest height (thickness) (ciliary body and choroid) (uveal melanoma) (finding)
396392000		pM1c: Metastasis to visceral site other than lung or distant metastasis at any site associated with an elevated serum lactic dehydrogenase (melanoma of the skin) (finding)
396506005		pt4: Tumor invades deep extradermal structures (i.e. cartilage, skeletal muscle, or bone) (carcinoma of skin excluding eyelid, vulva, penis, and melanomas) (finding)
396502007		pt3a: Tumor more than 5 cm in greatest dimension, limited to dermis or not more than 2 mm in thickness (carcinoma of skin excluding eyelid, vulva, penis, and melanomas) (finding)
396496001		pt1c: Tumor 2 cm or less in greatest dimension, invading the subcutis and/or greater than 6 mm in thickness (carcinoma of skin excluding eyelid, vulva, penis, and melanomas) (finding)
399729000		pt4: Tumor more than 16 mm in greatest diameter and/or greater than 10 mm in maximum height (thickness) with extraocular extension (ciliary body and choroid) (uveal melanoma) (finding)
396389004		pn3: Metastasis in four or more regional nodes, or matted metastatic nodes, or in-transit metastasis or satellite(s) with metastasis in regional node(s) (melanoma of the skin) (finding)
396504008		pt3c: Tumor more than 5 cm in greatest dimension, invading the subcutis and/or greater than 6 mm in thickness (carcinoma of skin excluding eyelid, vulva, penis, and melanomas) (finding)

399610000		pT3: Tumor more than 16 mm in greatest diameter and/or greater than 10 mm in maximum height (thickness) without extraocular extension (ciliary body and choroid) (uveal melanoma) (finding)
399493005		pT1c: Tumor 10 mm or less in greatest diameter and 2.5 mm or less in greatest height (thickness) with macroscopic extraocular extension (ciliary body and choroid) (uveal melanoma) (finding)
399461002		pT1b: Tumor 10 mm or less in greatest diameter and 2.5 mm or less in greatest height (thickness) with microscopic extraocular extension (ciliary body and choroid) (uveal melanoma) (finding)
399516003		pT1a: Tumor 10 mm or less in greatest diameter and 2.5 mm or less in greatest height (thickness) without microscopic extraocular extension (ciliary body and choroid) (uveal melanoma) (finding)
396507001		pT4b: Tumor invades deep extradermal structures (i.e. cartilage, skeletal muscle, or bone) greater than 6mm in thickness (carcinoma of skin excluding eyelid, vulva, penis, and melanomas) (finding)
396508006		pT4a: Tumor invades deep extradermal structures (i.e. cartilage, skeletal muscle, or bone) not more than 6mm in thickness (carcinoma of skin excluding eyelid, vulva, penis, and melanomas) (finding)
399616006		pT2b: Tumor 10 mm to 16 mm in greatest basal diameter and between 2.5 and 10 mm in maximum height (thickness) with microscopic extraocular extension (ciliary body and choroid) (uveal melanoma) (finding)
399543008		pT2c: Tumor 10 mm to 16 mm in greatest basal diameter and between 2.5 and 10 mm in maximum height (thickness) with macroscopic extraocular extension (ciliary body and choroid) (uveal melanoma) (finding)
396498000		pT2a: Tumor more than 2 cm, but not more than 5 cm, in greatest dimension, limited to dermis or greater than 2 mm in thickness (carcinoma of skin excluding eyelid, vulva, penis, and melanomas) (finding)

Nonmelanoma skin cancers

Read V2 Code	Term ID	Description
B338.	All	Squamous cell carcinoma of skin
B33z.	All	Squamous cell carcinoma of skin NOS
BB24.	All	[M] Verrucous carcinoma NOS
B8...	All	Bowen's disease
BB2L.	All	[M] Bowen's disease
BB3..	All	Basal cell neoplasms
BB30.	All	[M]Basal cell tumour
BB31.	All	[M]Basal cell carcinoma NOS
Bb32.	All	[M]Multicentric basal cell carcinoma
BB33.	All	[M]Basal cell carcinoma, morhoea type
BB34.	All	[M]Basal cell carcinoma, fibroepithelial type
BB35.	All	[M]Basosquamous carcinoma

BB36.	All	[M]Metatypical carcinoma
BB37.	All	[M]Intraepidermal epithelioma of Jadassohn
BB3C.	All	[M]Superficial basal cell carcinoma
BB3D.	All	[M]Basal cell carcinoma, nodular
BB3E.	All	[M]Basal cell carcinoma, micronodular
BB3F.	All	[M]Basal cell carcinoma, infiltrative
BB3G.	All	[M]Pigmented basal cell carcinoma
BB3z.	All	[M]Basal cell neoplasm NOS
BB5y0	All	[M]Basal cell adenocarcinoma
7G05D	All	Excision biopsy of basal cell carcinoma
B33z0	All	Kaposi sarcoma of the skin
BB5RA	All	[M]Merkel cell carcinoma
B621.	All	Mycosis fungoides
B6210	All	Mycosis fungoides of unspecified site
B6211	All	Mycosis fungoides of lymph nodes of head, face and neck
B6212	All	Mycosis fungoides of intrathoracic lymph nodes
B6213	All	Mycosis fungoides of intra-abdominal lymph nodes
B6214	All	Mycosis fungoides of lymph nodes of axilla and upper limb
B6215	All	Mycosis fungoides of lymph nodes of inguinal region and leg
B6216	All	Mycosis fungoides of intrapelvic lymph nodes
B6217	All	Mycosis fungoides of spleen
B6218	All	Mycosis fungoides of lymph nodes of multiple sites
B621z	All	Mycosis fungoides NOS
BBI..	All	[M]Mycosis fungoides
BBI0.	All	[M]Mycosis fungoides
BBI1.	All	[M]Sezary's disease
BBIz.	All	[M]Mycosis fungoides NOS
B62xX	All	0th and unspecif peripheral & cutaneous T-cell lymphomas
B62E7	All	Subcutaneous panniculitis like T-cell lymphoma
BBmD.	All	[M]Cutaneous lymphoma
B622.	All	Sezary's disease
B6220	All	Sezary's disease of unspecified site
B6221	All	Sezary's disease of lymph nodes of head, face and neck
B6222	All	Sezary's disease of intrathoracic lymph nodes
B6223	All	Sezary's disease of intra-abdominal lymph nodes
B6224	All	Sezary's disease of lymph nodes of axilla and upper limb
B6225	All	Sezary's disease of lymph nodes of inguinal region and leg
B6226	All	Sezary's disease of intrapelvic lymph nodes
B6227	All	Sezary's disease of spleen
B6228	All	Sezary's disease of lymph nodes of multiple sites
B622z	All	Sezary's disease NOS
Read CTV3 Code	Term ID	Description
X78el	All	Squamous cell carcinoma of lip
X78bU	All	Squamous cell carcinoma of cornea
X00Z8	All	Squamous cell carcinoma of eyelid
X78RR	All	Squamous cell carcinoma of skin
Xa34C	All	Squamous cell carcinoma of skin of upper lip
Xa34D	All	Squamous cell carcinoma of skin of lower lip
Xa34e	All	Squamous cell carcinoma of skin of cheek

X78RS	All	Clear cell squamous cell carcinoma of skin
X78RT	All	Spindle cell carcinoma of skin
X78RU	All	Acantholytic squamous cell carcinoma of skin
X78RV	All	Plantar verrucous squamous cell carcinoma of skin
Xa0EY	All	Squamous cell carcinoma of scrotum
X78Xw	All	Squamous cell carcinoma of vulva
B33z.	All	Squamous cell carcinoma of skin NOS
X78bM	All	Squamous cell carcinoma of conjunctiva
X78gS	All	Squamous cell carcinoma of anal margin
X78RW	All	Squamous cell carcinoma in situ of skin
X78il	All	Queryat's erythroplasia
X0027	All	Bowen's disease of eyelid
XaEJc	All	Bowen's disease of vulva
X78VL	All	Basal cell naevus syndrome
X78SS	All	Basal cell carcinoma of skin
X78ST	All	Basosquamous carcinoma of skin
X78VL	All	Naevoid basal cell carcinoma syndrome
X78SU	All	Fibroepithelioma of Pinkus
X78VK	All	Follicularatrophoderma and basal cell epitheliomata
X00Z9	All	Basal cell carcinoma of eyelid
Xa7OT	All	Excision of basal cell carcinoma
7G056	All	Excision biopsy of basal cell carcinoma
Xa7OU	All	Cryotherapy of basal cell carcinoma
X78ST	All	Metatypical basal cell carcinoma of skin
X78Sg	All	Basal cell carcinoma with eccrine differentiation
XM1ML	All	Epithelioma basal cell
X77nR	All	Merkel cell carcinoma
X78ha	All	Kaposi's sarcoma of skin
X78Ut	All	Epithelioid sarcoma of skin
B621.	All	Mycosis fungoides
XaQbT	All	Poikiloderma vasculare atrophicans
X78hm	All	Mycosis fungoides of skin
B6210	All	Mycosis fungoides of unspecified site
B6211	All	Mycosis fungoides of lymph nodes of head, face and neck
B6212	All	Mycosis fungoides of intrathoracic lymph nodes
B6213	All	Mycosis fungoides of intra-abdominal lymph nodes
B6214	All	Mycosis fungoides of lymph nodes of axilla and upper limb
B6215	All	Mycosis fungoides of lymph nodes of inguinal region and leg
B6216	All	Mycosis fungoides of intrapelvic lymph nodes
B6217	All	Mycosis fungoides of spleen
B6218	All	Mycosis fungoides of lymph nodes of multiple sites
B621z	All	Mycosis fungoides NOS
B622.	All	Sezary's disease
B6220	All	Sezary's disease of unspecified site
B6221	All	Sezary's disease of lymph nodes of head, face and neck
B6222	All	Sezary's disease of intrathoracic lymph nodes
B6223	All	Sezary's disease of intra-abdominal lymph nodes
B6224	All	Sezary's disease of lymph nodes of axilla and upper limb
B6225	All	Sezary's disease of lymph nodes of inguinal region and leg

B6226	All	Sezary's disease of intrapelvic lymph nodes
B6227	All	Sezary's disease of spleen
B6228	All	Sezary's disease of lymph nodes of multiple sites
B622z	All	Sezary's disease NOS
X78hn	All	Sezary's disease of skin
X78hl	All	Cutaneous lymphoma
XaYin	All	Cutaneous follicle centre lymphoma
Xa0Sz	All	Cutaneous/peripheral T-cell lymphoma
XaYjf	All	Subcutaneous panniculitis like T-cell lymphoma
ByuDD	All	[X]0th and unspecif peripheral & cutaneous T-cell lymphomas
XaYjl	All	Primary cutaneous CD30 antigen positive large T-cell lymphoma
SNOMED Code	Term ID	Description
402815007		Squamous cell carcinoma (disorder)
28899001		Squamous cell carcinoma, no International Classification of Diseases for Oncology subtype (morphologic abnormality)
255084004		Squamous cell carcinoma of anal margin (disorder)
425303004		Squamous cell carcinomatosis (disorder)
403468003		Squamous cell carcinoma of penis (disorder)
276953005		Squamous cell carcinoma of gum (disorder)
255071008		Squamous cell carcinoma of lip (disorder)
422599000		Squamous cell carcinoma of back (disorder)
403896003		Squamous cell carcinoma of hand (disorder)
403895004		Squamous cell carcinoma of foot (disorder)
422572002		Squamous cell carcinoma of chin (disorder)
448930008		Squamous cell carcinoma of nose (disorder)
59529006		Squamous cell carcinoma in situ, no International Classification of Diseases for Oncology subtype (morphologic abnormality)
85956000		Adenoid squamous cell carcinoma (morphologic abnormality)
189565007		Squamous cell carcinoma in situ (disorder)
307502000		Squamous cell carcinoma of mouth (disorder)
65692009		Spindle cell carcinoma (morphologic abnormality)
128634009		Basaloid squamous cell carcinoma (morphologic abnormality)
423700001		Squamous cell carcinoma of auricle of ear (disorder)
403891008		Squamous cell carcinoma of scalp (disorder)
254895003		Squamous cell carcinoma of vulva (disorder)
255008003		Squamous cell carcinoma of cornea (disorder)
89906000		Verrucous carcinoma (morphologic abnormality)
719052006		Recurrent squamous cell carcinoma (disorder)
425148008		Squamous cell carcinoma of temple (disorder)
39056008		Papillary squamous cell carcinoma (morphologic abnormality)
231831002		Squamous cell carcinoma of eyelid (disorder)
69551000119109		History of squamous cell carcinoma (situation)
64204000		Squamous cell carcinoma, metastatic (morphologic abnormality)

423700001		Squamous cell carcinoma of auricle of ear (disorder)
276860003		Squamous cell carcinoma of scrotum (disorder)
403905005		Multiple squamous cell carcinomata (disorder)
403903003		Signet ring squamous cell carcinoma (disorder)
403893006		Squamous cell carcinoma of forehead (disorder)
399739006		Metaplastic squamous cell carcinoma (morphologic abnormality)
448931007		Squamous cell carcinoma of shoulder (disorder)
450434000		Excision of squamous cell carcinoma (procedure)
37304002		Basosquamous carcinoma (morphologic abnormality)
422676009		Squamous cell carcinoma of ala nasi (disorder)
403901001		Acantholytic squamous cell carcinoma (disorder)
10288008		Squamous cell carcinoma, spindle cell (morphologic abnormality)
300987004		Disseminated squamous cell carcinoma (morphologic abnormality)
403900000		Spindle cell squamous cell carcinoma (disorder)
18048008		Squamous cell carcinoma, keratinizing (morphologic abnormality)
12478003		Squamous cell carcinoma, microinvasive (morphologic abnormality)
733344004		Primary squamous cell carcinoma of lip (disorder)
403894000		Squamous cell carcinoma of skin of ear (disorder)
722112006		Primary squamous cell carcinoma of ear (disorder)
733897002		Pseudovascular squamous cell carcinoma (morphologic abnormality)
255003007		Squamous cell carcinoma of conjunctiva (disorder)
423896007		Squamous cell carcinoma of tip of nose (disorder)
89906000		Verrucous carcinoma (morphologic abnormality)
423284006		Squamous cell carcinoma of skin of neck (disorder)
400066006		Intraepithelial squamous cell carcinoma (disorder)
254656002		Squamous cell carcinoma in situ of skin (disorder)
723265000		Primary squamous cell carcinoma of anus (disorder)
403892001		Squamous cell carcinoma of skin of face (disorder)
716659002		Squamous cell carcinoma of head and neck (disorder)
440527006		Primary squamous cell carcinoma of naris (disorder)
128635005		Squamous cell carcinoma, clear cell type (morphologic abnormality)
45490001		Squamous cell carcinoma, large cell, nonkeratinizing (morphologic abnormality)
403899005		Squamous cell carcinoma of skin of trunk (disorder)
402817004		Squamous cell carcinoma of nail apparatus (disorder)
422378004		Squamous cell carcinoma of bridge of nose (disorder)
128647004		Papillary squamous cell carcinoma, non-invasive (morphologic abnormality)
429024007		History of squamous cell carcinoma of skin (situation)
254652000		Clear cell squamous cell carcinoma of skin (disorder)
424260006		Squamous cell carcinoma of nasolabial fold (disorder)
403897007		Squamous cell carcinoma of upper extremity (disorder)
402816008		Squamous cell carcinoma of anogenital area (disorder)

403896003		Squamous cell carcinoma of hand (disorder)
254895003		Squamous cell carcinoma of vulva (disorder)
1082071000119102		Primary squamous cell carcinoma of left ear (disorder)
128633003		Squamous cell carcinoma with horn formation (morphologic abnormality)
403891008		Squamous cell carcinoma of scalp (disorder)
1082191000119100		Primary squamous cell carcinoma of right ear (disorder)
285308002		Squamous cell carcinoma of skin of lower lip (disorder)
285307007		Squamous cell carcinoma of skin of upper lip (disorder)
91151000119103		Primary squamous cell carcinoma of chest wall (disorder)
789051005		Squamous cell carcinoma in situ of skin caused by sunlight (disorder)
403713003		Psoralen and long-wave ultraviolet radiation therapy-associated squamous cell carcinoma (disorder)
448165009		Squamous cell carcinoma arising in chronic ulcer (disorder)
423506005		Squamous cell carcinoma of external auditory canal (disorder)
403898002		Squamous cell carcinoma of skin of lower extremity (disorder)
285309005		Squamous cell carcinoma of skin of cheek (disorder)
422378004		Squamous cell carcinoma of bridge of nose (disorder)
84999002		Bowen's disease (morphologic abnormality)
45490001		Squamous cell carcinoma, large cell, nonkeratinizing (morphologic abnormality)
35718007		Squamous cell carcinoma, small cell, nonkeratinizing (morphologic abnormality)
783212001		Human papillomavirus positive squamous cell carcinoma (morphologic abnormality)
1671000119100		Metastasis to lymph node from squamous cell carcinoma (disorder)
399494004		Squamous cell carcinoma in post-traumatic skin lesion (morphologic abnormality)
783213006		Human papillomavirus negative squamous cell carcinoma (morphologic abnormality)
722666002		Primary squamous cell carcinoma of lacrimal apparatus (disorder)
418372008		Squamous cell carcinoma of mucous membrane of lower lip (disorder)
399582005		Squamous cell carcinoma, nonkeratinizing, differentiated (morphologic abnormality)
449778005		Undifferentiated nonkeratinizing squamous cell carcinoma (morphologic abnormality)
24111000119105		Primary squamous cell carcinoma of upper limb (disorder)
403890009		Squamous cell carcinoma of vulva due to lichen sclerosus (disorder)
91151000119103		Primary squamous cell carcinoma of chest wall (disorder)
1082101000119106		Primary squamous cell carcinoma of skin of left lower limb (disorder)
242951000119108		Primary squamous cell carcinoma of vermillion border of lip (disorder)

789051005		Squamous cell carcinoma in situ of skin caused by sunlight (disorder)
1082221000119106		Primary squamous cell carcinoma of skin of right lower limb (disorder)
400155002		Squamous cell carcinoma - category (morphologic abnormality)
767544007		Intraepithelial squamous cell carcinoma of anogenital region (disorder)
419240004		Squamous cell carcinoma of mucous membrane of upper lip (disorder)
5688000		Squamous cell carcinoma in situ with questionable stromal invasion (morphologic abnormality)
449778005		Undifferentiated nonkeratinizing squamous cell carcinoma (morphologic abnormality)
399694008		Squamous cell carcinoma, nonkeratinizing, mixed differentiated and undifferentiated (morphologic abnormality)
721604004		Primary squamous cell carcinoma of overlapping lesion of male genital organ (disorder)
448406002		Grade III squamous intraepithelial neoplasia with microinvasive squamous cell carcinoma (morphologic abnormality)
1338007		Basal cell carcinoma (morphologic abnormality)
402521004		Basal cell carcinoma of upper extremity (disorder)
403912001		Cystic basal cell carcinoma (disorder)
402820007		Basal cell carcinoma of ear (disorder)
402520003		Basal cell carcinoma of hand (disorder)
402519009		Basal cell carcinoma of face (disorder)
402818009		Basal cell carcinoma of nose (disorder)
399470004		Basal cell carcinoma with eccrine differentiation (morphologic abnormality)
423463003		Basal cell carcinoma of back (disorder)
402509003		Basal cell carcinoma of neck (disorder)
80071000119103		Basal cell carcinoma of skin in situ (disorder)
403915004		Basal cell carcinoma of scalp (disorder)
717731002		Basal cell carcinoma of vulva (disorder)
402507001		Basal cell carcinoma of cheek (disorder)
128636006		Basal cell carcinoma, nodular (morphologic abnormality)
61471000119100		Basal cell carcinoma of naris (disorder)
424666005		Basal cell carcinoma of auricle of ear (disorder)
402513005		Basal cell carcinoma of tragus (disorder)
402536001		Basal cell carcinoma - primary (disorder)
402525008		Basal cell carcinoma - adenoid (disorder)
399585007		Pigmented basal cell carcinoma (morphologic abnormality)
403909004		Pigmented basal cell carcinoma (disorder)
402538000		Recurrent basal cell carcinoma (disorder)
231832009		Basal cell carcinoma of eyelid (disorder)
403917007		Basal cell carcinoma of temple (disorder)
56665009		Infiltrating basal cell carcinoma (morphologic abnormality)
399547009		Keratotic basal cell carcinoma (morphologic abnormality)

403914000		Superficial basal cell carcinoma (disorder)
402537005		Metastatic basal cell carcinoma (disorder)
402516002		Basal cell carcinoma of abdomen (disorder)
399746002		Basal cell carcinoma with follicular differentiation (morphologic abnormality)
399954008		Basal cell carcinoma of earlobe (disorder)
134152008		Basal cell carcinoma - morpheic (morphologic abnormality)
400137006		Basal cell carcinoma - category (morphologic abnormality)
403918002		Basal cell carcinoma of glabella (disorder)
402500004		Basal cell carcinoma of ala nasi (disorder)
403916003		Basal cell carcinoma of forehead (disorder)
403913006		Morpheic basal cell carcinoma (disorder)
128634009		Basaloid squamous cell carcinoma (morphologic abnormality)
300025007		Excision of basal cell carcinoma (procedure)
402528005		Basal cell carcinoma - keratotic (disorder)
402506005		Basal cell carcinoma of lower lip (disorder)
61098004		Multifocal superficial basal cell carcinoma (morphologic abnormality)
402526009		Basal cell carcinoma - follicular (disorder)
402505009		Basal cell carcinoma of upper lip (disorder)
56665009		Infiltrating basal cell carcinoma (morphologic abnormality)
400071004		Basal cell carcinoma, micronodular (morphologic abnormality)
254701007		Basal cell carcinoma of skin (disorder)
402512000		Basal cell carcinoma of antitragus (disorder)
402517006		Basal cell carcinoma of upper back (disorder)
402518001		Basal cell carcinoma of lower back (disorder)
423535002		Basal cell carcinoma of chest wall (disorder)
402527000		Basal cell carcinoma - infiltrative (disorder)
402502007		Basal cell carcinoma of tip of nose (disorder)
402529002		Basal cell carcinoma - micronodular (disorder)
37304002		Basosquamous carcinoma (morphologic abnormality)
300026008		Cryotherapy of basal cell carcinoma (procedure)
402819001		Basal cell carcinoma of skin of lip (disorder)
402524007		Basal cell carcinoma - adamantinoid (disorder)
402497005		Basal cell carcinoma of root of nose (disorder)
716274007		Nodular basal cell carcinoma of skin (disorder)
402494003		Basal cell carcinoma of lower eyelid (disorder)
402523001		Basal cell carcinoma of truncal skin (disorder)
80071000119103		Basal cell carcinoma of skin in situ (disorder)
403919005		Basal cell carcinoma of upper eyelid (disorder)
43369006		Basal cell carcinoma, fibroepithelial (morphologic abnormality)
402510008		Basal cell carcinoma of helix of ear (disorder)
400057007		Basal cell carcinoma of pinnal sulcus (disorder)
302821007		Basal cell carcinoma - sclerosing type (morphologic abnormality)
403911008		Nodulo-ulcerative basal cell carcinoma (disorder)
402495002		Basal cell carcinoma of medial canthus (disorder)

402515003		Basal cell carcinoma of anterior chest (disorder)
399746002		Basal cell carcinoma with follicular differentiation (morphologic abnormality)
302821007		Basal cell carcinoma - sclerosing type (morphologic abnormality)
402498000		Basal cell carcinoma of dorsum of nose (disorder)
402508006		Basal cell carcinoma of chin (disorder)
402546004		Basal cell carcinoma - third recurrence (disorder)
402532004		Basal cell carcinoma with monster cells (disorder)
428796002		Excisional biopsy of basal cell carcinoma (procedure)
402503002		Basal cell carcinoma of nasal columella (disorder)
402519009		Basal cell carcinoma of face (disorder)
402544001		Basal cell carcinoma - first recurrence (disorder)
402496001		Basal cell carcinoma of lateral canthus (disorder)
402521004		Basal cell carcinoma of upper extremity (disorder)
402522006		Basal cell carcinoma of lower extremity (disorder)
403910009		Circumscribed solid basal cell carcinoma (disorder)
1079101000119100		Primary basal cell carcinoma of left ear (disorder)
402501000		Basal cell carcinoma of supratip of nose (disorder)
400174005		Basal cell carcinoma of antihelix of ear (disorder)
402514004		Basal cell carcinoma of obverse of pinna (disorder)
403913006		Morpheic basal cell carcinoma (disorder)
254702000		Basosquamous carcinoma (disorder)
69411000119107		History of basal cell carcinoma of eyelid (situation)
1079161000119100		Primary basal cell carcinoma of right ear (disorder)
402504008		Basal cell carcinoma of naolabial groove (disorder)
428796002		Excisional biopsy of basal cell carcinoma (procedure)
403909004		Pigmented basal cell carcinoma (disorder)
399934007		Basal cell carcinoma of preauricular skin (disorder)
403916003		Basal cell carcinoma of forehead (disorder)
399897004		Basal cell carcinoma of postauricular skin (disorder)
1079111000119100		Primary basal cell carcinoma of left eyelid (disorder)
402511007		Basal cell carcinoma of conchal bowl of ear (disorder)
402500004		Basal cell carcinoma of ala nasi (disorder)
300025007		Excision of basal cell carcinoma (procedure)
1079171000119100		Primary basal cell carcinoma of right eyelid (disorder)
402534003		Basal cell carcinoma with signet ring change (disorder)
403712008		Psoralen and long-wave ultraviolet radiation therapy-associated basal cell carcinoma (disorder)
402531006		Basal cell carcinoma with granular cell change (disorder)
80071000119103		Basal cell carcinoma of skin in situ (disorder)
402497005		Basal cell carcinoma of root of nose (disorder)
1079091000119100		Primary basal cell carcinoma of left upper limb
423325007		Basal cell carcinoma of external auditory canal (disorder)
1079131000119100		Primary basal cell carcinoma of left lower limb (disorder)
1079151000119100		Primary basal cell carcinoma of right upper limb (disorder)
1079191000119100		Primary basal cell carcinoma of right lower limb (disorder)
399470004		Basal cell carcinoma with eccrine differentiation (morphologic abnormality)

399569002		Basal cell carcinoma in basal cell nevus syndrome (morphologic abnormality)
43369006		Basal cell carcinoma, fibroepithelial (morphologic abnormality)
254710004		Basal cell carcinoma with eccrine differentiation (disorder)
		Basal cell carcinoma with adnexal differentiation (morphologic abnormality)
399487002		Basal cell carcinoma of lateral side wall of nose (disorder)
402499008		Basal cell carcinoma of dorsum of nose (disorder)
402498000		Basal cell carcinoma recurrent following excision (disorder)
402539008		Basal cell carcinoma with matrical differentiation (morphologic abnormality)
399958006		Basal cell carcinoma recurrent following curettage (disorder)
402541009		Basal cell carcinoma with sebaceous differentiation (morphologic abnormality)
400087001		Basal cell carcinoma - second recurrence (disorder)
402545000		Basal cell carcinoma of obverse of pinna (disorder)
402514004		Basal cell carcinoma recurrent following cryotherapy (disorder)
402542002		Basal cell carcinoma with sarcomatoid differentiation (morphologic abnormality)
816972004		Basal cell carcinoma recurrent following radiotherapy (disorder)
402543007		History of basal cell carcinoma of eyelid (situation)
69411000119107		Basal cell carcinoma of conchal bowl of ear (disorder)
402511007		Basal cell carcinoma recurrent following Mohs' excision (disorder)
402540005		Excision of postauricular basal cell carcinoma with closure (procedure)
703499006		Basal cell carcinoma - multiple recurrences (more than three times) (disorder)
402547008		Excision of basal cell carcinoma from right postauricular region with closure (procedure)
736465001		Merkel's cell (cell)
10149001		Merkel cell carcinoma (disorder)
253001006		Merkel cell carcinoma (morphologic abnormality)
5052009		Merkel cell carcinoma of face (disorder)
133841000119105		History of merkel cell carcinoma (situation)
138141000119108		Merkel cell carcinoma of lower limb (disorder)
133881000119100		Merkel cell carcinoma of upper limb (disorder)
133871000119103		Merkel cell carcinoma of left lower limb (disorder)
352071000119105		Merkel cell carcinoma of right lower limb (disorder)
721541009		Primary malignant sarcoma of skin (disorder)
109386008		Kaposi's sarcoma of skin (disorder)
254800003		Epithelioid cell sarcoma of skin (disorder)
404093001		Sarcomatous metastasis in skin (disorder)
404155008		Granulocytic sarcoma affecting skin (disorder)
90120004		Mycosis fungoides (morphologic abnormality)
118618005		Mycosis fungoides (disorder)

765328000		Classic mycosis fungoides (disorder)
404115006		Bullous mycosis fungoides (disorder)
94714002		Mycosis fungoides of spleen (disorder)
404117003		Spongiotic mycosis fungoides (disorder)
681291000119105		History of mycosis fungoides (situation)
418628003		Follicular mycosis fungoides (morphologic abnormality)
404113004		Tumour stage mycosis fungoides (disorder)
404118008		Syrngotropic mycosis fungoides (disorder)
404112009		Granulomatous mycosis fungoides (disorder)
404114005		Erythrodermic mycosis fungoides (disorder)
404110001		Hypomelanocytic mycosis fungoides (disorder)
404109006		Folliculotropic mycosis fungoides (disorder)
404108003		Pokilodermatous mycosis fungoides (disorder)
404107008		Patch/plaque stage mycosis fungoides (disorder)
404116007		Mycosis fungoides with systemic infiltration (disorder)
94708009		Mycosis fungoides of intrapelvic lymph nodes (disorder)
94707004		Mycosis fungoides of intra-abdominal lymph nodes (disorder)
188627002		Mycosis fungoides of lymph nodes of multiple sites (disorder)
404111002		Lymphomatoid papulosis-associated mycosis fungoides (disorder)
404104001		Lymphomatoid papulosis type B mycosis fungoides-like (disorder)
94715001		Mycosis fungoides of extranodal AND/OR solid organ site (disorder)
94709001		Mycosis fungoides of intrathoracic lymph nodes (disorder)
94711005		Mycosis fungoides of lymph nodes of head, face AND/OR neck (disorder)
94710006		Mycosis fungoides of lymph nodes of axilla AND/OR upper limb (disorder)
188627002		Mycosis fungoides of lymph nodes of multiple sites (disorder)
94712003		Mycosis fungoides of lymph nodes of inguinal region AND/OR lower limb (disorder)
28054005		Cutaneous T-cell lymphoma, no International Classification of Diseases for oncology subtype (morphologic abnormality)
40012207		Primary cutaneous T-cell lymphoma (disorder)
277613000		Cutaneous/peripheral T-cell lymphoma (disorder)
404128004		CD-30 negative cutaneous T-cell lymphoma (disorder)
419283005		Primary cutaneous T-cell lymphoma - category (morphologic abnormality)
128804002		Primary cutaneous CD30 antigen positive T-cell lymphoproliferative disorder (morphologic abnormality)
450908002		Primary cutaneous gamma-delta T-cell lymphoma (morphologic abnormality)
122571000119106		History of primary cutaneous T-cell lymphoma (situation)
419018000		Primary cutaneous large T-cell lymphoma - category (morphologic abnormality)

402880009		Primary cutaneous large T-cell lymphoma (disorder)
404133000		Subcutaneous panniculitic cutaneous T-cell lymphoma (disorder)
404128004		CD-30 negative cutaneous T-cell lymphoma (disorder)
787198005		Primary cutaneous acral CD8 positive T-cell lymphoma (morphologic abnormality)
397352006		Primary cutaneous anaplastic large T-cell lymphoma, CD30-positive (morphologic abnormality)
733627006		Primary cutaneous gamma-delta-positive T-cell lymphoma (disorder)
404129007		CD-30 negative anaplastic large T-cell cutaneous lymphoma (disorder)
122571000119106		History of malignant cutaneous T-cell lymphoma (situation)
404130002		CD-30 negative pleomorphic large T-cell cutaneous lymphoma (disorder)
404126000		CD-30 positive pleomorphic large T-cell cutaneous lymphoma (disorder)
419283005		Primary cutaneous T-cell lymphoma - category (morphologic abnormality)
450908002		Primary cutaneous gamma-delta T-cell lymphoma - category (morphologic abnormality)
765136002		Primary cutaneous CD8 positive aggressive epidermotropic cytotoxic T-cell lymphoma (disorder)
128875000		Primary cutaneous CD30 antigen positive large T-cell lymphoma (disorder)
733895005		Primary cutaneous CD8 positive aggressive epidermotropic cytotoxic T-cell lymphoma (morphologic abnormality)
419586003		Primary cutaneous T-cell lymphoma, large cell, CD30-negative (morphological abnormality)
118611004		Sezary's disease (disorder)
4950009		Sezary's disease (morphologic abnormality)
255101006		Sezary disease of skin (disorder)
95263006		Sezary's disease of spleen (disorder)
188632001		Sezary's disease of intra-abdominal lymph nodes (disorder)
188635004		Sezary's disease of intrapelvic lymph nodes (disorder)
188631008		Sezary's disease of intrathoracic lymph nodes (disorder)
188637007		Sezary disease of lymph nodes of multiple sites (disorder)
95264000		Sézary's disease of extranodal AND/OR solid organ site (disorder)
188633006		Sézary's disease of lymph nodes of axilla and upper limb (disorder)
95260009		Sézary's disease of lymph nodes of head, face AND/OR neck (disorder)
188634000		Sézary's disease of lymph nodes of inguinal region and lower limb (disorder)
95261008		Sézary's disease of lymph nodes of inguinal region AND/OR lower limb (disorder)
419392005		Primary cutaneous lymphoma (morphologic abnormality)