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Supplementary Note 1: search inclusion/exclusion criteria and reproducible search terms

Search inclusion criteria:

1. Cancer studies. Cancer and synonym terms (e.g., neoplasm, tumour, oncology, malignancy), specific names of cancer types (e.g., melanoma, glioma, carcinoma).
2. Human studies. This criterion was written using double exclusion approach (focused on excluding animals rather than including humans) in order to avoid losing articles about humans that are new and have not been specifically marked as human studies yet.
3. Genetics and/or clinical data. Studies that used clinical data (e.g., electronic health records) or genomics/genetics data.
4. Computational methods. Studies that conducted assessment of the association of prognostic factors with patient survival. E.g., methods such as logistic regression, Cox proportional hazards, machine learning, genome wide association studies (GWAS). This criterion prevented inclusion of descriptive studies that focus on cancer statistics.
5. Prognostic factors. Studies that focused on identifying prognostic factors and genetic mutations associated with cancer prognosis and survival. The terms included prognosis, staging, grading, survival, risk/prognostic factor/feature, variant, mutation, polymorphism, signature and other synonyms.

Search exclusion criteria:

1. Diagnostic imaging. Studies that focused on machine learning and other methods to analyse diagnostic images.
2. Genetics areas. Studies from broader areas of genetics such as genetic testing, genotyping techniques, pedigrees were excluded.
3. Drugs and therapeutics. Studies that focused on assessing effectiveness of a drug treatment, comparing different therapeutic strategies or assessing the dosage and adverse effects of medications were excluded.

Full search terms and query for PubMed/MEDLINE database:

((neoplasms[MeSH] OR cancer*[Title] OR "pan-cancer*[Title] OR pancancer[Title] OR carcinoma*[Title] OR tumor*[Title] OR tumour*[Title] OR malignan*[Title] OR neoplasm*[Title] OR adenocarcinoma*[Title] OR leukemia*[Title] OR leukaemia*[Title] OR melanoma*[Title] OR glioma*[Title] OR glioblastoma*[Title] OR onco*[Title]) NOT ("organisms category"[MeSH] NOT "humans"[MeSH]) NOT ("mice"[MeSH]) AND ("genetics"[MeSH] OR "genomics"[MeSH] OR genetic*[Title/Abstract] OR genom*[Title/Abstract] OR "medical records"[MeSH] OR "hospital records"[MeSH] OR ((clinical[Title/Abstract] OR medical[Title/Abstract] OR health[Title/Abstract] OR hospital[Title/Abstract])) AND (record*[Title/Abstract] OR data[Title/Abstract])) OR "secondary care"[Title/Abstract] OR "primary care"[Title/Abstract] OR "general practice*[Title/Abstract] OR "GP"[Title/Abstract]) AND ("regression analysis"[MeSH] OR "regression*[Title/Abstract] OR "logistic"[Title/Abstract] OR "proportional hazard*[Title/Abstract] OR "cox"[Title/Abstract] OR "multivariate analysis"[MeSH] OR "multivariate*[Title/Abstract] OR "multivariable*[Title/Abstract] OR "principal component analysis"[MeSH] OR "principal component analys*[Title/Abstract] OR "machine learning"[MeSH] OR "machine learning"[Title/Abstract] OR "deep learning"[Title/Abstract] OR "decision trees"[Mesh] OR "decision tree*[Title/Abstract] OR "random forest*[Title/Abstract] OR "neural networks, computer"[Mesh] OR "neural network*[Title/Abstract] OR "genetic association studies"[MeSH] OR GWAS[Title/Abstract] OR ((genetic*[Title/Abstract] OR genom*[Title/Abstract]) AND (association[Title/Abstract]))) OR "Sequence Analysis, DNA"[MeSH] OR ((sequence*[Title/Abstract] OR mutation*[Title/Abstract]) AND (analysis[Title/Abstract])) OR "review"[Publication Type] OR "systematic review"[Publication Type] OR "meta-analysis"[Publication Type] OR review[Title/Abstract] OR "meta-analysis"[Title/Abstract]) AND("neoplasm grading"[MeSH] OR "neoplasm staging"[MeSH] OR "disease-free survival"[Mesh] OR "progression-free survival"[Mesh] OR prognos*[Title] OR stage*[Title] OR staging*[Title] OR grade*[Title] OR grading*[Title] OR survival[Title]) AND ("risk factors"[MeSH] OR "risk assessment"[MeSH] OR "genetic variation"[MeSH] OR (risk*[Title] AND (factor*[Title] OR feature*[Title]))) OR (prognos*[Title] AND (factor*[Title] OR feature*[Title])) OR signature*[Title] OR mutation*[Title] OR variant*[Title] OR polymorphism*[Title])) NOT ("diagnostic imaging"[MeSH] OR "image processing, computer-assisted"[MeSH] OR imag*[Title/Abstract] OR scan*[Title/Abstract] OR radiomic*[Title/Abstract] OR tomograph*[Title/Abstract] OR radiograph*[Title/Abstract] OR mammograph*[Title/Abstract] OR "histology"[MeSH] OR histol*[Title/Abstract] OR histopathol*[Title/Abstract] OR cytol*[Title/Abstract] OR "cytogenetics"[MeSH] OR cytogenetic*[Title/Abstract] OR "genetics, population"[Mesh] OR ("genetic techniques"[MeSH] NOT ("genetic association studies"[MeSH] OR "Sequence Analysis, DNA"[Mesh]))) OR "genetic testing*[Title/Abstract] OR "clinical trials as topic"[MeSH] OR "clinical

trial*"[Title/Abstract] OR ("chemicals and drugs category"[MeSH] NOT ("genetic markers"[MeSH])) OR "administration and dosage" [Subheading] OR "therapeutics"[MeSH] OR "surgical procedures, operative"[Mesh] OR therap*[Title] OR chemotherap*[Title] OR immunotherap*[Title] OR radiotherap*[Title] OR surger*[Title] OR operat*[Title])

Full search terms and query for Europe PMC database:

((KW:neoplasms OR TITLE:cancer* OR TITLE:pan-cancer* OR TITLE:pancancer OR TITLE:carcinoma* OR TITLE:tumor* OR TITLE: tumour* OR TITLE:malignan* OR TITLE:neoplasm* OR TITLE:adenocarcinoma* OR TITLE:leukemia* OR TITLE:leukaemia* OR TITLE:melanoma* OR TITLE:glioma* OR TITLE:glioblastoma* OR TITLE:onco*) NOT (KW:animals NOT KW:humans) NOT (KW:mice) AND (KW:genetics OR KW:genomics OR TITLE:genetic* OR ABSTRACT:genetic* OR TITLE:genom* OR ABSTRACT:genom* OR KW:"medical records" OR KW:"hospital records" OR ((TITLE:clinical OR ABSTRACT:clinical OR TITLE:medical OR ABSTRACT:medical OR TITLE:health OR ABSTRACT:health OR TITLE:hospital OR ABSTRACT:hospital) AND (TITLE:record* OR ABSTRACT:record* OR TITLE:data OR ABSTRACT:data)) OR TITLE:"secondary care" OR ABSTRACT:"secondary care" OR TITLE:"primary care" OR ABSTRACT:"primary care" OR TITLE:"general practice" OR ABSTRACT:"general practice" OR TITLE:GP OR ABSTRACT:GP) AND (KW:"regression analysis" OR TITLE:regression* OR ABSTRACT:regression* OR TITLE:logistic OR ABSTRACT:logistic OR TITLE:"proportional hazard*" OR ABSTRACT:"proportional hazard*" OR TITLE:cox OR ABSTRACT:cox OR KW:"multivariate analysis" OR TITLE:multivariate* OR ABSTRACT:multivariate* OR TITLE:multivariable* OR ABSTRACT:multivariable* OR KW:"principal component analysis" OR TITLE:"principal component analysis" OR ABSTRACT:" principal component analysis" OR KW:"machine learning" OR TITLE:"machine learning" OR ABSTRACT:"machine learning" OR TITLE:"deep learning" OR ABSTRACT:"deep learning" OR KW:"decision trees" OR ((TITLE:decision OR ABSTRACT:decision) AND (TITLE:tree* OR ABSTRACT:tree*)) OR TITLE:"random forest" OR ABSTRACT:"random forest" OR KW:"neural networks, computer" OR ((TITLE:neural OR ABSTRACT:neural) AND (TITLE:network* OR ABSTRACT:network*)) OR KW:"genetic association studies" OR TITLE:GWAS OR ABSTRACT:GWAS OR ((TITLE:genetic* OR ABSTRACT:genetic* OR TITLE:genom* OR ABSTRACT:genom*) AND (TITLE:association OR ABSTRACT:association)) OR KW:"sequence analysis" OR TITLE:"mutation analysis" OR ABSTRACT:"mutation analysis" OR TITLE:"sequence analysis" OR ABSTRACT:"sequence analysis" OR PUB_TYPE:"review" OR TITLE:review OR ABSTRACT:review OR PUB_TYPE:"meta-analysis" OR TITLE:meta-analysis OR ABSTRACT:meta-analysis) AND (KW:"prognosis" OR KW:"survival" OR TITLE:prognos* OR TITLE:stage* OR TITLE:staging* OR TITLE:grade* OR TITLE:grading* OR TITLE:survival) AND (KW:"risk factors" OR KW:"risk assessment" OR KW:"genetic variation" OR (TITLE:risk* AND (TITLE:factor* OR TITLE:feature*))) OR (TITLE:prognos* AND (TITLE:factor* OR TITLE:feature*)) OR TITLE:signature* OR TITLE:mutation* OR TITLE:variant* OR TITLE:polymorphism*)) NOT (KW:imaging OR KW:"diagnostic imaging" OR KW:"image processing, computer-assisted" OR TITLE:imag* OR ABSTRACT:imag* OR TITLE:scan* OR ABSTRACT:scan* OR

TITLE:radiomic* OR ABSTRACT:radiomic* OR TITLE:tomograph* OR ABSTRACT:tomograph* OR TITLE:radiograph* OR ABSTRACT:radiograph* OR TITLE:mammograph* OR ABSTRACT:mammograph* OR KW:histology OR TITLE:histol* OR ABSTRACT:histol* OR TITLE:histopathol* OR ABSTRACT:histopathol* OR TITLE:cytol* OR ABSTRACT:cytol* OR KW:cytogenetics OR TITLE:cytogenetic* OR ABSTRACT:cytogenetic* OR KW:"genetics, population" OR KW:"chromosome mapping" OR KW:pedigree OR KW:"genetic testing" OR TITLE:"genetic testing" OR ABSTRACT:"genetic testing" OR KW:"clinical trials" OR TITLE:"clinical trial" OR ABSTRACT:"clinical trial" OR KW:drugs OR KW:complications OR KW:"adverse effects" OR KW:"dosage" OR KW:"therapeutic" OR KW:"therapy" OR KW:"surgical procedures" OR KW:"surgery" OR TITLE:therap* OR TITLE:chemotherap* OR TITLE:immunotherap* OR TITLE:radiotherap* OR TITLE:surger* OR TITLE:operat*)

Supplementary Note 2: study selection criteria

Study selection criteria (eligibility and exclusions) applied for screening titles and abstracts:

1. Articles must focus on cancer rather than other diseases.
2. Articles must focus on survival end point/outcome rather than other end point/outcome (e.g., articles on prediction of recurrence or metastasis were excluded).
3. Genetic articles must focus on SNPs rather than other genetic data/processes (e.g., articles on gene expression, copy number variation were excluded).
4. Articles must analyse multiple prognostic factors or genetic mutations rather than have a specialised focus on assessing one factor.
5. Articles must analyse one or more of the eleven cancer types (lung, colorectal, breast, prostate, melanoma, renal, glioma, bladder, leukaemia, endometrial, ovarian), including pan-cancer studies.
6. Articles must be written in English.
7. Articles focusing on clinical summaries and clinical practice guidelines were excluded.
8. Articles without evidence-based data, such as case reports, were excluded.
9. Articles focusing on methodology (e.g., comparison of different prognostic models), where they do not provide results on individual prognostic factor level, were excluded.
10. Articles focusing on describing biological processes (e.g., biological tumour development) were excluded.
11. Specialised comparative studies comparing cancer statistics or factor effect in different populations were excluded.
12. Duplicate articles were excluded.
13. Articles that did not have full text available for review were excluded.
14. Articles focusing on diagnostic imaging or natural language processing were excluded.
15. Articles with article type such as editorial, comment or protocol were excluded.

Supplementary Table 1: number of studies reviewed by publication year

Publication year	Number of papers	Percentage of papers
<2000	17	6.9%
2000-2005	16	6.5%
2006-2010	22	8.9%
2011	8	3.2%
2012	13	5.3%
2013	15	6.1%
2014	14	5.7%
2015	13	5.3%
2016	15	6.1%
2017	17	6.9%
2018	14	5.7%
2019	23	9.3%
2020	31	12.6%
2021*	29	11.7%
Grand Total	247	100.0%

Total number of studies and percentage of studies included in the systematic review of literature up till 1st July 2021, broken down by publication year. *Only first half of the year 2021 is included in this review.

Supplementary References: references of studies included in the systematic review

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