Belgian Virtual Tumourbank: Catalogue module (BVTc)

User manual for researchers



Manual BVTc for researchers - version 4.2

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1. INTRODUCTION

This manual describes how to use the online catalogue module of the Belgian Virtual Tumourbank, the BVTc. The user should be able to retrieve the samples he/she is looking for, using the available search criteria. The concept of the BVT applications will be explained to give some insights to obtain better search results.

2. CONTACT INFORMATION

Belgian Cancer Registry (BCR) - Biobank Project:

The Biobank Team 02/250.10.12

biobank@registreducancer.org biobank@kankerregister.org

www.virtualtumourbank.be

If you have questions or remarks about the online BVTc application, please do not hesitate to contact us. We are looking forward to receiving your feedback, since it is our purpose to keep improving the BVT catalogue and service to the users.

3. CONCEPT OF THE APPLICATION

3.1. General

The application of the Belgian Virtual Tumourbank (BVT) is divided into 2 modules: the BVTr and the BVTc.



3.2. Data flow in the BVT applications



Each sample registration has a well-defined state (see blue boxes in the scheme above), which defines the specific actions that are allowed to be executed. The BVTr application (registration module) allows the local tumourbank and the BCR to populate the catalogue with tumour sample registrations. Some important principles:

- Each local tumourbank is able to view all its registrations, but is not able to view registrations from another local tumourbank.
- Each local tumourbank is responsible for its own registrations.
- The BCR is able to view all registrations from all local tumourbanks, except for the "saved" (incomplete) registrations.
- The BCR verifies the submitted registrations and approves them for publication to the catalogue. If registrations are erroneous, questionable or identifiable towards the donor, they are rejected and sent back to the local tumourbank for correction or inactivation/deletion.
- All published registrations are available in the catalogue for query. The data in the catalogue is coded, i.e. it is not possible for a researcher to re-identify the donor.
- Data are structured using a predefined dataset, with minimal required fields. Historical data (i.e. data of samples taken before 2010) have less required fields.



3.3. Dataset and data content/validation

Data Element (Variable Name)	Required	Required for historical	Visible in
Conoral variables		data (before 2010)	catalogue
		(automatically)	V
	(automatically)	(automatically)	× ×
Reference ID Patient variables	(automatically)	(automatically)	Λ
	V	CCIN / D:	
SSIN	X	SSIN / Biopsy nr.	v
Gender	X	X	A
Birth date	X	Ā	V
Age	X	V	A
Patient Opposition	X	X	
Technical variables			
Sample ID	X	X	Х
Biopsy number	X	Biopsy nr./ SSIN	
Sample Date	Х	X	X (only year)
Conservation mode	Х		X
Comment if other conservation mode			X
Conservation delay	Х		Х
Autopsy?			Х
Available materials	Х		Х
Comment if other available materials			Х
Technical remarks			
Oncological variables			
Sample type (lesion type)	Х	Х	Х
Comment if other sample type			Х
Sample localisation	Х	Х	Х
Localisation primary tumour if meta			Х
Laterality			Х
Morphology	Х	Х	Х
Behaviour	Х	Х	Х
Differentiation grade			Х
Prefix			Х
рТ			Х
pN			Х
рМ			Х
Oncological remarks			
BCR variables			
сТ			X
cN			Х
cM			Х
Quality Control Result			
BCR Comment			
Error Comment			

Every variable in the dataset has its own defined format and validation rules. You can find more information about the variables in appendix 1 (see chapter 5).



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3.4. Classifications

The tumours in the Belgian Virtual Tumourbank are classified according to the internationally acknowledged ICD-O classification (International Classification of Diseases – Oncology) and the TNM of the UICC (<u>http://www.uicc.org/resources/tnm</u>). These classifications are available in several editions, and the use of each edition depends on the year in which the tumour is discovered:

Sample Year	ICD-O	Sample Year	TNM
1998		1998	11111114
1999	ICD-O-2	1999	
2000		2000	
2001		2001	כ ועועד
2002		2002	
2003		2003	
2004	ICD-O-3 → Warning: update of 2011! ¹	2004	
2005		2005	
2006		2006	TNM 6
2007		2007	
2008		2008	
2009		2009	
2010		2010	
			TNM 7
2016		2016	
2017		2017	
			TNM 8
2020]	→ Warning: errata! ²
	ICD-0-3.2		

1: The ICD-O-3 update of 2011 can be applied to all tumours from 2002 onwards. The complete list of updates can be downloaded via the following link:

http://www.kankerregister.org/media/docs/downloads/voorpathologen/20130118ICDO3UpdatesvertalingNL.pdf

2: For the last version of all the changes and corrections for TNM, see: <u>http://www.wileyanduicc.com/pdf/Corrected_pages.pdf</u>



4. WORKING WITH BVTc

4.1. Start

4.1.1. System requirements

This application will work best with the browsers Internet Explorer and Firefox.

4.1.2. Web address BVTc

You can reach the catalogue module of the BVT by the following link: <u>https://www.virtualtumourbank.be/bvtc</u>

The link is also available via the BVT website <u>www.virtualtumourbank.be</u> by clicking the orange button on the



4.1.3. Authentication with electronic identity card (eID)

The BVTc is a secured web application, where the identity of the user will be verified (authentication) at the moment of logging in. For this you need a valid electronic identity card (eID) or the mobile app "itsme".

To be able to use the **eID** services, the following things should be installed on your computer:

- A card reader (free to choose)
- Software to read electronic identity cards
 (free to download via <u>http://eid.belgium.be/en/using_your_eid/installing_the_eid_software/</u>, click
 on the "quick install"-icon on the right side)
- If you work with Firefox, you will also have to install the following add-on: <u>https://addons.mozilla.org/en-US/firefox/addon/belgium-eid/</u>



You will need to know the PIN code of your eID to be able to login to the BVTc with your eID.



More information is also available on the eHealth website: Dutch: <u>https://www.ehealth.fgov.be/nl/egezondheid/hoe-krijgt-u-toegang-tot-het-portaal-egezondheid-/eidtoken</u> French: <u>https://www.ehealth.fgov.be/fr/esante/acceder-au-portail-esante/eidtoken</u>



4.1.4. Connection procedure eHealth with eID to access the application

- Enter the web address (URL) <u>https://www.virtualtumourbank.be/bvtc</u> in the web browser.
- Choose "Log in with eID card reader" on the page of the CSAM portal. You can change your language at the top of the page.



• A window of the "Federal Authentication Service" (FAS, an authentication service offered by Fedict) will appear.

CSAM	Log on to online public serv	vices
Log in with eID	card reader	
		Do yo
	Connect your eID card reader to your computer	<u>Read ı</u> public
ζ 2	Insert your electronic identity card (eID), foreigner's card or kids- ID into the card reader	
3	Click 'Log in' , select your certificate and enter the PIN of your identity card when asked to do so	
Choose a different di	jital key Log in	

- Insert your electronic identity card (eID) in the card reader.
- Click on the red button "Log in".

More information about FAS can be found via the following link: Dutch: <u>https://dt.bosa.be/nl/identificatie beveiliging/federal authentication service</u> French: <u>https://dt.bosa.be/fr/identification et securisation/federal authentication service</u>



• Select your own certificate in the pop-up that appears and enter your PIN code.

Windows Security	×		Asking PIN	×
Smart Card				Please enter your PIN, in order to authenticate yourself.
Geef uw PIN in				
EII PIN				
Click here for more int	ormation			
ОК	Cancel	or		PIN
				Ok Cancel

• Select the organisation of the <u>Belgian Cancer Registry</u> in the dropdown menu.

	Je souhaite me connecter
	Au sein de l'organisation:
	Choisissez un profil
1	k wil me aanmelden
1	Binnen de organisatie:
	Kies een profiel
	K

Click on the green button "Profiel bevestigen" / "Confirmer le profil".

Profiel bevestigen

Confirmer le profil

- You will be forwarded to the homepage of the BVTc-application.
- Please navigate throughout the application with the buttons within the application itself (not the ones from your web browser).

Error messages can occur during the connection procedure. In this case, it is advised to completely close your internet browser and to restart the connection procedure. If the problem persists, you can contact the Biobank Team of the Belgian Cancer Registry (02/250.10.12 or biobank@kankerregister.org) and mention/ take a screenshot of the displayed ticket number (if applicable).



An alternative for logging in via eID is via the mobile app "itsme". For this you will need a smartphone with the itsme-app installed. Choose "Log in via itsme" on the page of the CSAM portal:





Next, a window of itsme will appear where you should insert your mobile phone number. Then you should open the itsme-app on your smartphone and confirm your identity with the security code. Finally, a window will open on your computer where you should select and confirm the Belgian Cancer Registry as your institution, just as during the procedure via eID.



To log out completely from the BVTc-application, you should:

- click on "logout", in the right upper corner of the application (see screenshot below), and,
- close all pages of the web browser to completely end the eHealth-session.





When the application is not used for 30 minutes, the session will automatically expire and you will be disconnected from the BVTc-application.

Attention! After these 30 minutes the eHealth-session will still be active. To completely end this eHealth-session, all pages of the web browser should be closed. Otherwise, unauthorized persons can obtain access to the BVTc-application in your name on that computer, without having to re-enter your PIN code.



4.1.5. **BVTc Navigation**

The navigation in the BVTc is quite simple and intuitive: you can perform a quick simple search in the homepage, or you can select other (multiple) criteria in the advanced search section. These two menus are always accessible via the links in the orange toolbar. The results are displayed as a list that can be downloaded to an Excel file.



4.2. Simple Search

On the simple search page, you can visualize the distribution of the samples available in the virtual tumourbank, according to the type of lesion and the organ localisation (using ICD-O classification).

First select the lesion type of interest and then click in the tree structure on a plus sign or category name to expand the different levels (organ category – organ – sub-localisation).

H- BELG Catalogu	IAN VIRTUAL TUMOURBANK	
PLE SEARCH ADVANCED S	EARCH	Belgian Cancer Registry logout
SIMPLE SEARCH		
Select lesion type Sample Localisation	Make your choice here Benign tumours (/0) Uncertain/borderline tumours (/1) In situ tumours (/2) Primary malignant tumours (/3) Metastatic tumours (/6)	
 C00-C14: Lip, oral cavi C15-C26: Digestive org C30-C39: Respiratory C40-C41: Bones, joint: C42: Hematopoietic ar C44: Skin C47-C49: Connective ar C50: Breast C51-C58: Female genital C60-C63: Male genital 	ty Normal tissues Non-tumoural lesions jans system and intrathoracic organs s and articular cartilage id reticuloendothelial systems and soft tissues tal organs organs	
 C64-C68: Urinary tract C69-C72: Central nerv C73-C75: Endocrine gi C76: Other and ill-defir C77: Lymph nodes C80: Unknown primary 	bus system ands ned sites r site	 Benign tumours (/0) Uncertain/borderline tumours (/1) In situ tumours (/2) Primary malignant tumours (/3) Metastatic tumours (/6) Normal tissues Non-tumoural lesions

The number of samples available for the given organ category, organ or sub-localisation is displayed between brackets. Simply click on this number to go to the result list and view the individual registrations. Example of "central nervous system":



When expanding a certain organ (Cxx) or organ category (Cxx-Cyy) in the tree structure, the pie graph on the right side will show the distribution of the numbers of tumours (i.e. number of registrations without duplicates; see chapter 4.3 for the definition of duplicates) within the selected organ or organ category and according to the different organs (Cxx) or sub-localisations (Cxx.x). Example of the organ category "female genital organs":



4.3. Advanced Search

You can access the advanced search-page by clicking in the orange toolbar on "Advanced search", or by clicking "Refine search criteria" when you already performed a search action (this last option remembers your previously entered search criteria).

ADVANCED SEARCH	
General Variables Laboratory 2 Reference ID 2 Gender	Male Female Age From 50 to 80
Technical Variables	
Sample ID	Sample year (2) From to
Conservation mode 🔋	□ -20°C □ -80°C □ -120°C or colder □ Liquid nitrogen □ paraffin (FFPE) □ Other
Conservation Delay 😢	□ 0 - 30 min □ + 30 min □ Unknown
Include Autopsy samples 💡	
Available materials 🔋	✓ Tissue Cytology ✓ DNA □ RNA □ Proteins □ Corresponding normal tissue □ Serum □ Plasma □ Whole blood □ Urine □ Other
Oncological Variables	
Lesion type 😨	Benign tumours (/0) Normal tissues Non-tumoural lesions Uncertain/borderline tumours (/1) In situ tumours (/2) Primary malignant tumours (/3) Metastatic tumours (/6) Select codes (0)
Laterality	Select codes (0)

Example of advanced search page with certain search criteria entered:

All the searchable variables are displayed on the screen. Every filled in or selected variable will be integrated in the search action, with:

- the "AND"-logic between the parameters
 e.g. "male" AND "from 50 to 80 years" = all males from 50 to 80 years
- and the "OR"-logic between the selected options within a parameter e.g. "Tissue" OR "DNA" in Available materials = all tissue samples and all DNA samples

When you included all the parameters of your interest, you can click on the blue "search"-button to perform the search action.





Select codes

On the advanced search-page there are multiple options to select codes (see blue arrows in screenshot below):

- for the sample localisation,
- for the localisation of the primary tumour (in case you are looking for a sample of a metastasis),
- for the histological diagnosis,
- for the pTNM and
- for the cTNM.

Oncological Variables	
Lesion type 🔋	 □ Benign tumours (/0) □ Normal tissues □ Uncertain/borderline tumours (/1) □ In situ tumours (/2) □ Primary malignant tumours (/3) ☑ Metastatic tumours (/6)
Sample localisation 👔	Select codes (0) Localisation primary tumour Select codes (0)
Laterality	Left Odd Unknown
Histological diagnosis 🔋	Select codes (0)
Differentiation grade	 1. Well differentiated 2. Moderately differentiated 3. Poorly differentiated 4. Undifferentiated (anaplastic) 9. Unknown H.High grade L.Low grade Hematological differentiation
Prefix	
рТ pN	
pM	0 1 others <u>Select codes</u>
cT cN	□ 0 □ 1 □ 2 □ 3 □ 4 □ others <u>Select codes</u>
сМ	0 1 others <u>Select codes</u>

When clicking "Select codes" next to one of these parameters, a pop-up window appears that allows you to search and select the organs, morphologies, pTNM or cTNM of your interest.

- For pTNM and cTNM you should first select one or more checkboxes (0, 1, 2, 3, 4 or "others").
- In the pop-up of sample localisation and histological diagnosis you should first enter a (part of a) description or an (part of an) ICD-O code in the search field, and click on search, before you will be able to select the codes of your interest.

In the example on the next page a search is shown on sample localisation to retrieve colon samples. By entering the first letters (e.g. "colo") and clicking the blue "search"-button in the pop-up, the application will give you all possible codes with these letters in the description (in this example the colon). Afterwards the codes of interest can be selected by clicking the checkboxes next to the codes (e.g. ascending colon and hepatic flexure of colon). The selected codes appear in the right list of the pop-up. All selected codes will be included in the search if "continue with selection" is clicked.



Sample localisation	×
colo	Search
Results Select all ✓ C18.2 Ascending colon ✓ C18.3 Hepatic flexure of colon C18.4 Transverse colon C18.5 Splenic flexure of colon C18.6 Descending colon C18.7 Sigmoid colon C18.8 Overlapping lesion of colon C18.9 Colon, NOS	Selected codes
	Clear Continue with selection

After selecting codes in the pop-up and closing the pop-up, the number of selected codes is indicated between brackets next to the parameter ("2" in the example below) on the advanced search-page.

Sample localisation	2	Select codes (2)	
---------------------	---	------------------	--

Buttons

If the search is performed with the checkbox "Hide duplicates" ON, it means that the result list will NOT contain duplicate registrations. Two registrations are <u>duplicates</u> from each other when they are from the same laboratory and if they have the same SSIN (Social Security Identification Number), biopsy number, sample date, sample type and sample localisation.

→ Choose this option if you want to see only one registration per tumour.



If the search is performed with the checkbox "Hide duplicates" OFF, it means that the result list WILL contain duplicate registrations.

→ Choose this option if you do not mind to see multiple registrations from the same tumour.

Hide duplicates

If you click the "Clear all"-button, at the bottom of the advance search-page, all filled in search criteria will be erased to allow you to start a completely new advanced search.





Search tips

- Make sure that the lesion type and the selected behaviour in the pop-up for histological diagnosis are compatible. E.g. lesion type "Primary malignant tumours /3" + Mxxxx/2 = not possible (zero results will be shown in the result list).
- When the lesion type "metastatic tumours (/6)" is selected, an extra search parameter appears in the advanced search page: "localisation of the primary tumour".
- The behaviour and differentiation grade mentioned in the BVTc corresponds with the behaviour and differentiation grade of the tumour and not always with the behaviour and differentiation grade present in only a part of the tumour present in the sample. An evaluation of each sample can be done by the local tumourbank for requested samples if needed by the researcher.
- If you are looking for tumour tissue with corresponding normal tissue, do NOT search on lesion type "normal tissues", but search on available materials "corresponding normal tissue".

4.4. Viewing search results

4.4.1. Result list

At first, the search results will always be displayed in a simple result list (limited number of columns; without scrollbar).

The total <u>number of registrations</u> and the total <u>number of pages</u> are indicated in the message above the result list, as well as the selected search criteria in case of a simple search.

When the result list contains more than 20 registrations, you can navigate to other pages by clicking the arrows or the page numbers at the bottom of a result list.



You can switch to <u>extended view</u> to see more parameters for the registrations in the result list (horizontal scrollbar at the bottom of the list). Afterwards you can click on "Simple view" to see the result list with fewer columns again.

It is possible to download an Excel version of this result list by clicking on "Export".

→ <u>Attention</u>: A result list and an export list are limited to 2000 registrations (i.e. 100 pages). If a search resulted in more than 2000 registrations, it is indicated in the message above the result list and some results will not be shown.

For some parameters, the results in the list can be sorted by clicking once (A-Z) or twice (Z-A) on the title of that column (not possible for all parameters in the result list).

You can click on "View" on the left side of each registration to view the detail page of a specific registration (see chapter 4.4.2).

From this selection, you can also <u>refine your search</u> with other or additional criteria or start a <u>new search</u>.

When you move your cursor to a specific code or abbreviation in the result list (a sample type, an organ code or a lesion code), the description of that code will be displayed above the cursor (i.e. a mouse-over).



Example of a result list in simple view in the BVTc-application, sorted on organ code (indicated by the small orange triangle):





4.4.2. Detail page

The detail page displays all available data of one registration in a coded form (i.e. without identifying information to ensure privacy of individuals). From this page you can navigate from one registration to another ("Previous" - "Next") and you can return to the search result list.

If you click on "Display all registrations for this patient", you can see all available registrations from the same donor.

By moving your mouse to an orange icon with a question mark ², a tooltip with more information about the corresponding parameter will pop-up.

A hyphen "-" is shown for variables that have not been filled in.

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Belgian Cancer Registry

<u>Attention</u>: Letters with accents and special signs written in the free fields (e.g. other conservation mode or other available material) will sometimes appear as a question mark ("?") in the BVT applications.

General variables					
Gender	Female	Laboratory	Wilmar 1		
Age	68	Reference ID	? 11144		
echnical characteristics of the sample	•				
Sample ID 🔋	T8147	Conservation delay	0 - 30 min		
Sample year 🔋	2008	Autopsy	No		
Conservation mode 😢	-80°C, paraffin (FFPE)				
Available materials 🔋	Tissue				
Dincological characteristics of the sam	ple				
Sample type 🛛 🔞	P-Primary tumour				
Anatomic localization of the 🔋 sample	C30.0 - Nasal cavity	Anatomic laterality	Unknown		
Morphology ICD-O	M8020/3 - Carcinoma, undiffere	ntiated, NOS			
Degree of differentiation	-				
Pathological TNM	- pT -pN -pM -				
Clinical TNM					
Return to list TDisplay all registrat	ions for this patient			+ Previous	Next
	4.437 8				

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Example of a detail page of a fictive registration in the BVTc-application:

4.5. Additional step of data quality control before sample request?

To receive access to the samples itself, please follow the next steps:

- 1. Search in the BVTc the samples of your interest. Note down the **reference IDs** (= unique number within the BVTc) and the **sample IDs** of these samples.
- 2. If you are interested in an additional quality control on the data, send a mail to the biobank team of the BCR with the list of reference IDs of the sample of your interest. If not, proceed with step 4.
- The biobank team of the BCR runs an additional step of data quality control on the information of the samples selected for your research purposes (through linkage with available cancer registry data). → Note: this is not possible for benign tumours and very recent tumours.
- 4. Contact the biobank coordinator(s) or biobank manager(s) of the local biobank(s) hosting your samples of interest. The biobank team of the BCR will be pleased to provide you the contact information (i.e. e-mail address(es) and/or telephone number(s)) of the local biobank coordinator(s) or biobank manager(s). Communication with the local tumourbank about the samples should be done with the Sample ID (=unique number within the local tumourbank). The decision about sample exchange is up to the local tumourbank and details about the samples should be discussed with the biobank coordinator.
- 5. Each local tumourbank has its own procedures concerning the transfer of samples (e.g. human material transfer agreement (HMTA)). Additional documents or information might be requested by the local tumourbank.



5. APPENDIX: The different search variables in the BVTc

Variable Name	Туре	Possible values		Description	
General variables					
Laboratory	dropdown list			The laboratory (local tumourbank) that physically stores the sample(s)	
Reference ID	text box			Unique code for this registration in the Belgian Virtual Tumourbank; to be used	
	(numeric)			during communications between the researcher and the Belgian Cancer Registry	
Gender	checkboxes	Male	М	Gender of the patient	
		Female	F		
Age	range			Age of the patient at the time of resection. When 1 or 2 values are filled in, a range of ages will be shown.	
Technical variables					
Sample ID	text box			Unique and non-identifying code of the sample within the local tumourbank; to be used during communications between the researcher and the local tumourbanks	
Sample Year	range			Year at which the sample was removed from the patient. When 1 or 2 values are	
				filled in, a range of sample years will be shown.	
Conservation mode	checkboxes	-20°C		Indicates the conservation mode used for the tumour tissue sample in the local	
		-80°C		tumourbank	
		-120°C or colder			
		Liquid nitrogen			
		Paraffin (FFPE)			
		Other			
Conservation delay	checkboxes	0 - 30 min		Indicates the time elapsed between the removal from the patient and the fixation	
		+30 min		of the tumour tissue sample	
		Unknown			
Include autopsy samples	checkbox	(checkbox on or off)		Indicates whether the search should include autopsy samples or not	
Available materials	checkboxes	Tissue		Indicates which various types of materials are available in the tumourbank, that	
		Cytology		correspond to the tumour tissue sample	
		DNA			
		RNA			
		Proteins			
		Corresponding normal tissue			
		Serum			
		Plasma			
		Whole blood			
		Urine			
		Other			

Variable Name	Control type	Possible values		Description			
Oncological variables							
Lesion type	checkboxes	Benign tumours	/0	Indicates the lesion type of the sample in the local tumourbank			
		Uncertain/borderline	/1				
		tumours					
		In situ tumours	/2				
		Primary malignant tumours	/3				
		Metastatic tumours	/6				
		(Normal Tissues)					
		(Non-tumoural lesions)					
Sample localisation	pop-up	ICD-O code lists (see also		Anatomic localisation of the sampled specimen. In case of a metastasis, this			
	window	chapter 3.4)		localisation is different from the primary tumour localisation			
Localisation primary tumour if	pop-up	ICD-O code lists (see also		Anatomic localisation of the primary tumour in case the sample was taken from the			
meta	window	chapter 3.4)		metastasis; appears only when lesion type "metastatic tumours" is selected			
Laterality	checkboxes	Left		Anatomic side from which the sample was taken			
		Right					
		Odd					
		Unknown					
Histological diagnosis	pop-up	ICD-O code lists		Morphology and behaviour of the sampled tumour			
	window						
Differentiation grade	checkboxes +	Well differentiated	1	Tumour differentiation: 1-4 or high grade or low grade for most tumours; 5-8 for			
	dropdown list	Moderately differentiated	2	haematological tumours.			
		Poorly differentiated	3	Be aware, particularly in case of haematological diseases, that the differentiation			
		Undifferentiated (anaplastic)	4	grade is not always filled in by the tumourbank.			
		T-cell	5				
		B-cell	6				
		Null-cell	7				
		NK-cell	8				
		Unknown	9				
		High grade	Н				
		Low grade	L				

Variable Name	Control type	Possible values		Description
Oncological variables				
(continued)				
Prefix	dropdown list	pTNM during or after	у	
		neoadjuvant therapy		
		pTNM of a recurrent tumour	r	
		pTNM determined at autopsy	а	
рТ	checkboxes +	TNM code lists (see also		Pathological TNM. The selected digit(s) represents tumours with a category starting
pN	pop-up	chapter 3.4)		with this digit. More precise codes can be selected in the pop-up window.
рМ	window			
сТ	checkboxes +	TNM code lists (see also		Clinical TNM. The selected digit(s) represents tumours with a category starting with
cN	pop-up	chapter 3.4)		this digit. More precise codes can be selected in the pop-up window.
сМ	window			