

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Age_T0	AHT	Diabete	AFib	SAS	COPD	Ischemic_Path	Heart_Fail	CVA	IPD	Psy_Hist	CIRS	Active_Smoker	Quit_Smoking	OH	Fam_Hist	VKA	DOAC	APD	Anti
2	83	1	0	0	0	0	0	0	0	0	0	NA	NA	NA	NA	0	0	0	0	C
3	83	1	0	0	0	0	0	0	0	1	0	NA	0	1	0	1	0	0	0	C
4	88	0	0	1	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	C
5	84	1	0	0	0	0	0	0	0	0	0	7	0	1	0	1	0	0	0	C
6	75	1	0	0	1	0	0	0	0	0	0	NA	0	1	0	0	0	0	0	C
7	84	1	1	0	0	0	0	0	0	0	0	NA	0	0	0	NA	0	0	0	C
8	85	1	0	0	0	0	1	1	0	0	0	NA	0	0	0	1	0	0	0	C
9	78	1	0	0	0	0	0	0	0	0	1	NA	0	1	0	0	0	0	0	C
10	85	1	0	0	0	0	0	0	0	0	0	NA	0	0	0	NA	0	0	0	C
11	87	1	0	0	0	0	0	0	0	0	0	NA	0	0	0	0	0	0	0	C

Data

pcbi.1007866.s002.xlsx (552.78 kB)



Dataset from 1,628 elderly patients with cognitive disorders from La Pitié-Salpêtrière hospital, Paris.

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Dataset posted on 18.05.2020, 19:38 by Vincent Cabeli, Louis Verny, Nadir Sella, Guido Uguzzoni, Marc Verny, Hervé Isambert

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The dataset, fully deidentified, contains 107 variables of different types (namely, 19 continuous and 88 categorical variables) and heterogeneous nature (*i.e.*, variables related to previous medical history, comorbidities and comedications, scores from cognitive tests, clinical, biological or radiological examinations, diagnostics and treatments).

(XLSX)

HISTORY

18.05.2020 - First online date, Publication date, Posted date

Read the peer-reviewed
publication

Learning clinical networks from medical
records based on information estimates in
mixed-type data

PLOS COMPUTATIONAL BIOLOGY

https://figshare.com/articles/dataset/Dataset_from_1_628_elderly_patients_with_cognitive_disorders_from_La_Piti_-Salp_tri_re_hospital_Paris_/12322790/1

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Results

The team of Professor Frédérique Capron, head of the Pathology Department at Pitié-Salpêtrière Hospital in Paris, France, has selected and annotated a set of breast cancer biopsy slides for this contest. The slides are stained with standard hematoxylin and eosin (H&E) dyes and they have been scanned by two slide scanners: Aperio Scanscope XT and Hamamatsu Nanozoomer 2.0-HT.

In each slide, the pathologists selected several frames at X20 magnification located inside tumours. These X20 frames are used for scoring nuclear atypia. The X20 frames have been subdivided into four frames at X40 magnification. The X40 frames are used to annotate mitosis and to give a score to six criteria related to nuclear atypia. Dimensions of frames are given in table 1.

Scanner	Aperio Scanscope XT	Hamamatsu Nanozoomer 2.0-HT
Resolution at X40	0.2455 µm per pixel	0.227299 µm per pixel (horizontal) 0.227531 µm per pixel (vertical)
	1539 × 1376 pixels	1663 × 1485 pixels
Dimensions of a X20 frame	755.649 × 675.616 µm ²	755.996474 × 675.76707 µm ²
	1539 × 1376 pixels	1663 × 1485 pixels
Dimensions of a X40 frame	377.8245 × 337.808 µm ²	377.998237 × 337.883535 µm ²

The number of frames is variable from slide to slide. In the training data set there are 284 frames at X20 magnification and 1,136 frames at X40 magnification. The frames are RGB bitmap images in TIFF format. For X20 magnification frames, we provide the nuclear atypia score as a number 1, 2 or 3. Score 1 denotes a low grade atypia, score 2 a moderate grade atypia, and score 3 a high grade atypia. This score has been given independently by two different senior pathologists. There are some frames for which the pathologists disagree and gave a different score.

For the X40 magnification frames, we provide the following data:

- List of mitosis given by two different pathologists. The pathologists have annotated mitosis as true mitosis, probably a mitosis, or not a mitosis. In case of disagreement between the pathologists, a third pathologist gave his opinion and the object has been marked as mitosis or not mitosis according to the majority.
- Six criteria given by three junior pathologists to evaluate the nuclear atypia. The criteria for nuclear atypia are provided as a number 1, 2 or 3. Only the consensus value among the three pathologists is given for each criterion. The six criteria are described in table 2. They are provided as a guideline to help contestants for designing their algorithm for nuclear atypia scoring. Contestants are free to use one or more of these criteria, or to design and use their own criteria for nuclear atypia scoring.

<https://mitos-atypia-14.grand-challenge.org/Dataset/>