Research about ECG dataset

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Question 1

How many samples are in this dataset?

Question 2

label distribution in this dataset

Question 3

Correlation between various diseases and gender and age

Question 4

Correlation between various diseases and diseases

Question 1　How many samples are in this dataset?

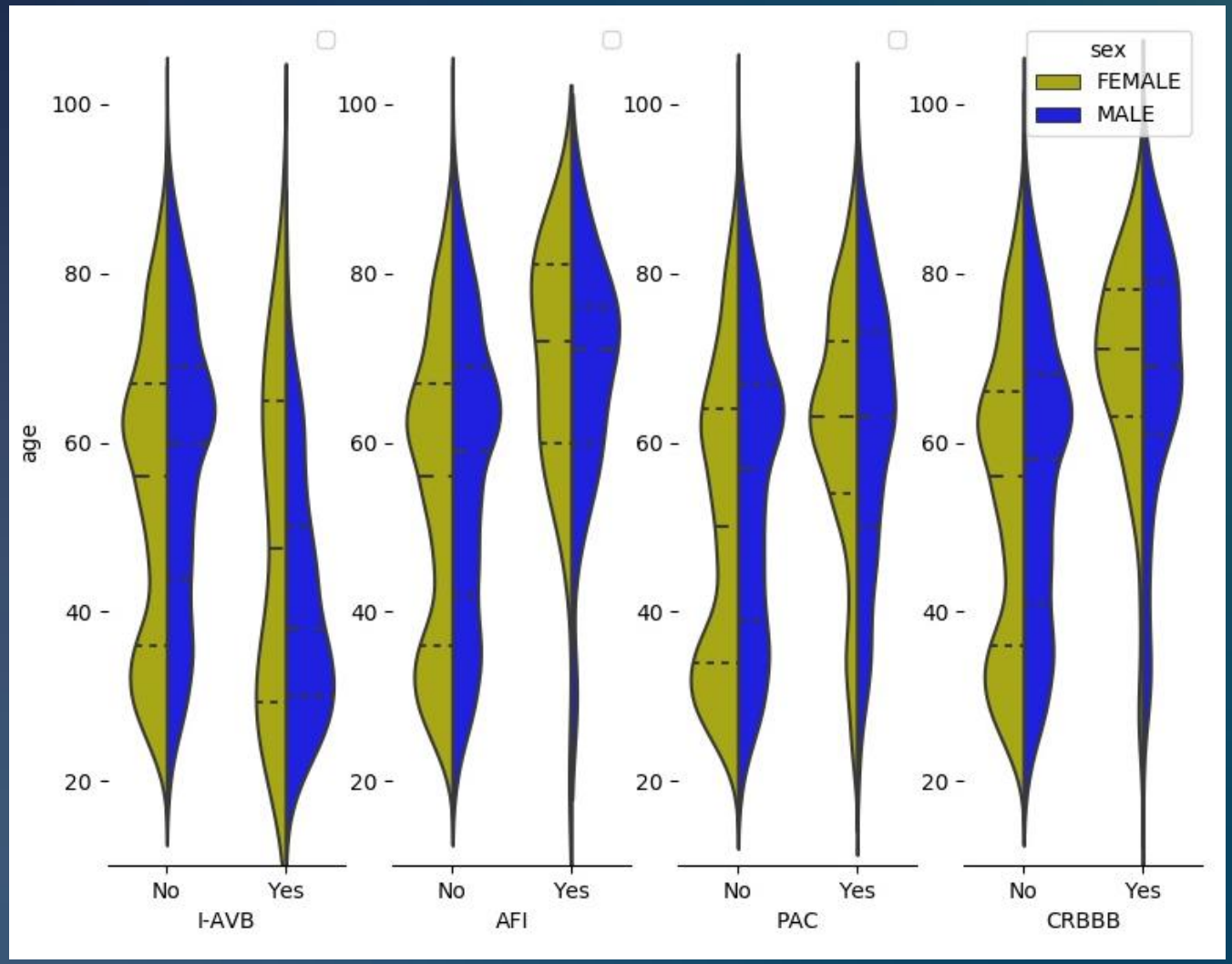
Come from	amount	format
Beijing Tsinghua Chang Gung Hospital	48123	.xml
Zhongguancun Hospital	80897	.pickle　.json
Wuqing people Hospital	23712	.xml

Question 2 label distribution in this dataset

Full name	abbreviation	Amount
Normal	Normal	9788
Early repolarization graphic change	ERGC	584
Indoor differential conduction	IDC	90
T wave change	TWC	5676
FirstdegreeA-Vblock	I-AVB	805
Atrial fibrillation	AFI	772
Premature atrial contraction	PAC	769
Complete right bundle branch block	CRBBB	963
Ventricular premature beat	VPB	844
Left anterior branch block	LAFB	343
Atrial flutter	AFL	163
Incomplete right bundle branch block	IRBBB	639

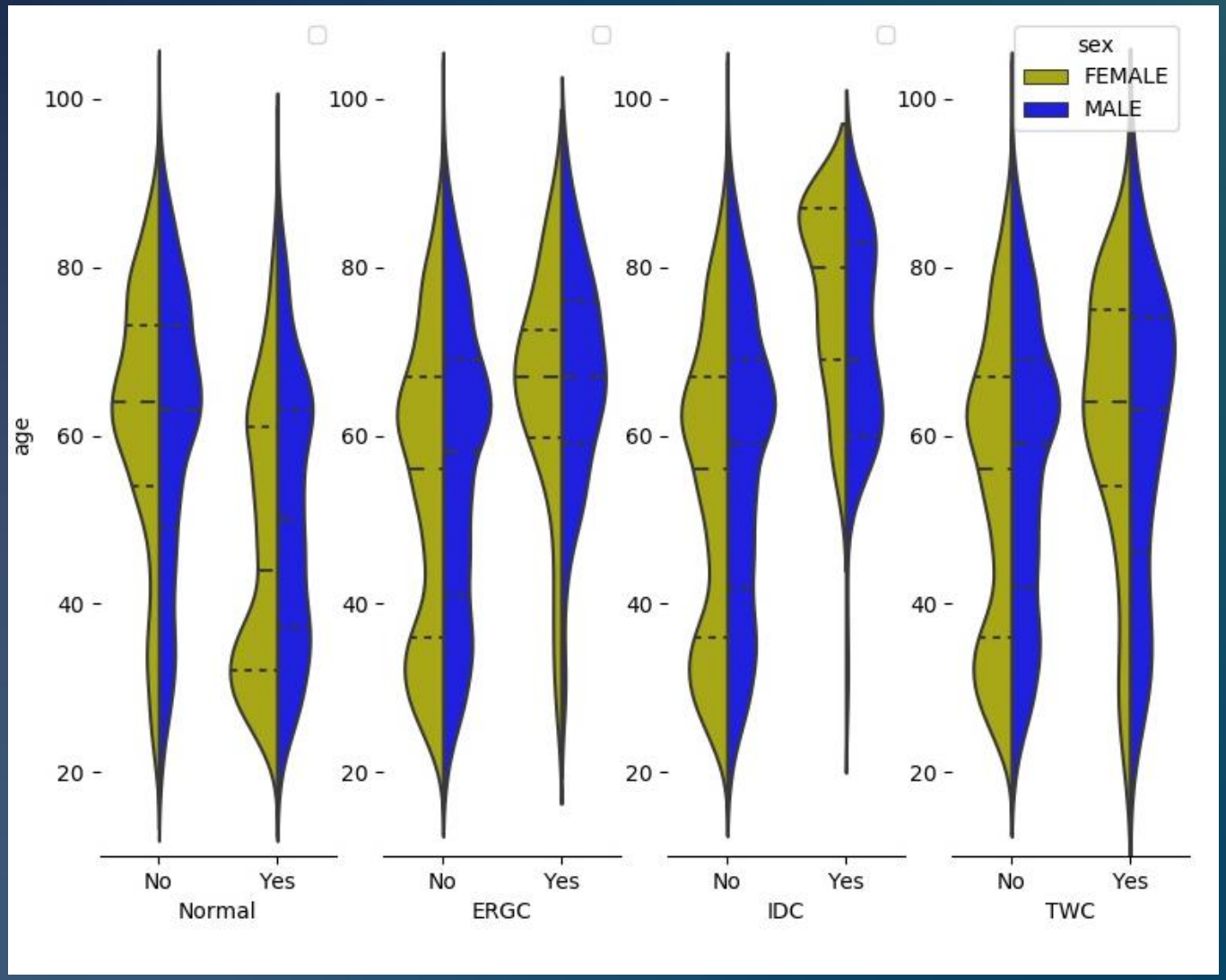
Question 3 Correlation between various diseases and gender and age

心房扑动



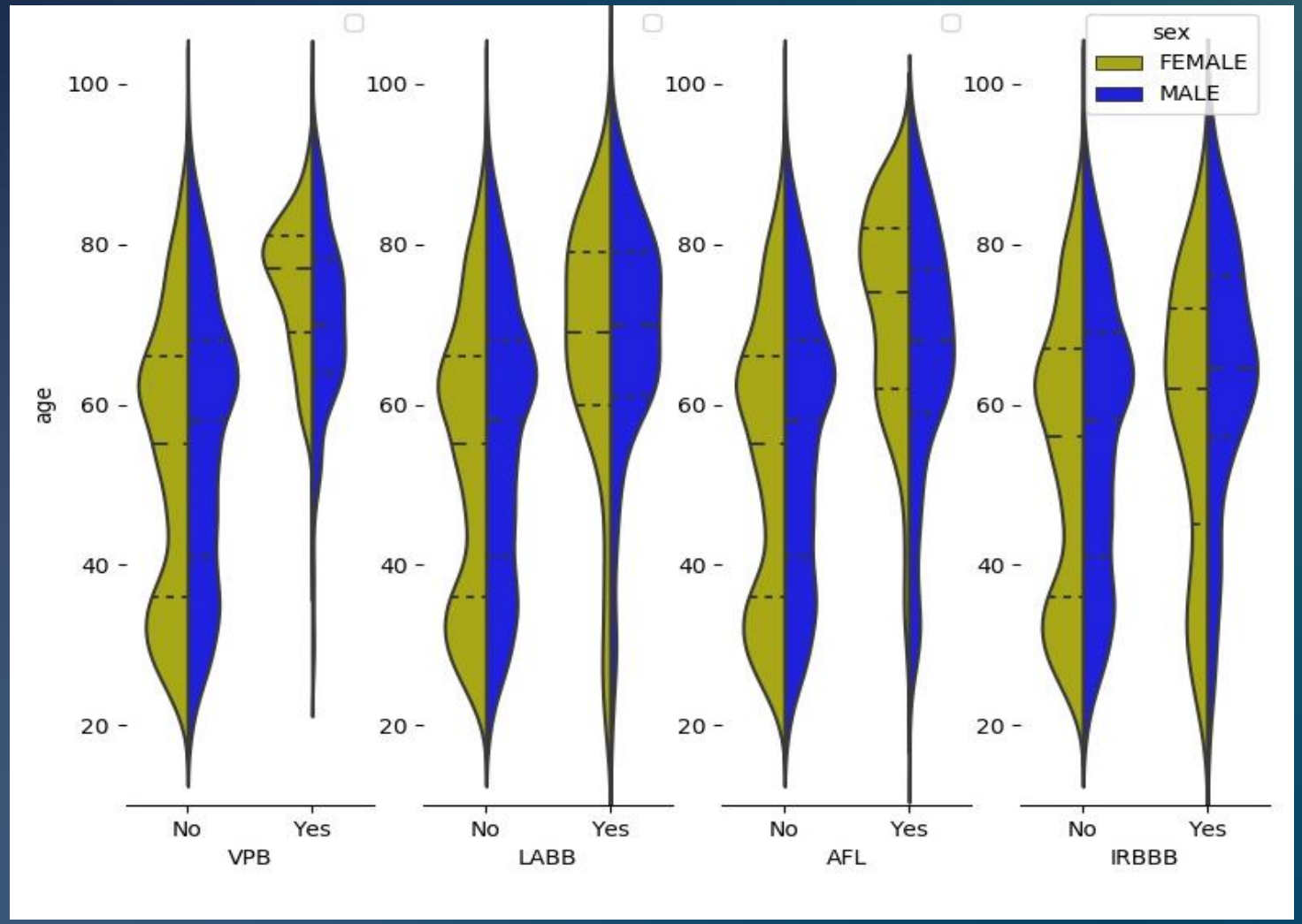
Question 3 Correlation between various diseases and gender and age

心房扑动



Question 3 Correlation between various diseases and gender and age

心房扑动



Question 4 Correlation between various diseases and diseases

	age	Normal	ERGC	IDC	TWC	I-AVB	AFI	PAC	CRBBB	VPB	LABB	AFL	IRBBB
age	1	-0.3671	0.08809	0.09346	0.06186	-0.12884	0.05298	0.23097	0.15809	0.20367	0.15112	0.16878	0.07699
Normal	-0.3671	1	-0.13357	-0.09165	-0.18374	-0.1754	-0.06798	-0.63919	-0.20714	-0.20267	-0.20226	-0.22751	-0.21231
ERGC	0.08809	-0.13357	1	0.00918	0.02586	-0.02342	0.01394	-0.02357	0.02724	0.00894	-0.00095	0.10824	0.0004
IDC	0.09346	-0.09165	0.00918	1	0.0148	-0.01607	0.01039	0.03932	-0.01898	-0.01857	-0.01853	0.03374	-0.01392
TWC	0.06186	-0.18374	0.02586	0.0148	1	-0.02884	0.00451	-0.04074	0.00249	0.04401	-0.00164	-0.04179	0.00205
I-AVB	-0.12884	-0.1754	-0.02342	-0.01607	-0.02884	1	-0.01192	-0.10744	-0.00608	-0.03245	-0.02619	-0.03989	-0.02836
AFI	0.05298	-0.06798	0.01394	0.01039	0.00451	-0.01192	1	-0.00183	-0.01408	0.16082	0.11064	-0.00499	-0.01071
PAC	0.23097	-0.63919	-0.02357	0.03932	-0.04074	-0.10744	-0.00183	1	-0.02463	0.06023	-0.03883	-0.05532	-0.04088
CRBBB	0.15809	-0.20714	0.02724	-0.01898	0.00249	-0.00608	-0.01408	-0.02463	1	-0.04197	-0.00613	0.02307	0.00796
VPB	0.20367	-0.20267	0.00894	-0.01857	0.04401	-0.03245	0.16082	0.06023	-0.04197	1	-0.04098	0.03522	0.00092
LABB	0.15112	-0.20226	-0.00095	-0.01853	-0.00164	-0.02619	0.11064	-0.03883	-0.00613	-0.04098	1	0.0233	-0.00409
AFL	0.16878	-0.22751	0.10824	0.03374	-0.04179	-0.03989	-0.00499	-0.05532	0.02307	0.03522	0.0233	1	-0.01457
IRBBB	0.07699	-0.21231	0.0004	-0.01392	0.00205	-0.02836	-0.01071	-0.04088	0.00796	0.00092	-0.00409	-0.01457	1

Spearman Correlation Coefficient