**Suppl 1. Keywords for cardiology-related patents**

The following keyword list was used to identify patents related to cardiology. Note that incomplete words in the list below would match the complete version in the patent data. E.g. the keyword “cardiolog” would match “cardiology”, “cardiological”, “cardiologist”, and so on. Additionally, for the keywords “ECG” and “EKG” only the uppercase versions were included as matches. The remaining keywords were matched in a case-insensitive fashion.

* cardiac
* cardiolog
* coronary
* pacemaker
* aorta
* aortic
* echocardio
* electrocardio
* atheroscler
* arterioscler
* aortic valve
* mitral valve
* bicuspid valve
* tricuspid valve
* pulmonic valve
* prosthetic valve
* heart failure
* cardiac monitoring
* myopath
* myocard
* epicard
* endocard

Keep in mind that many potential keywords relevant to cardiology would unfortunately also match irrelevant patents (e.g. “heart” would match “Heart-shaped locket” and “valve” would match “Machinery valve”). As such, only keywords with high specificity for cardiology were included.

 Each subgroup within cardiology also had a list of associated keywords to match patents that were already marked as related to cardiology. These lists are included below. Of note, since these keywords were only applied to patents that were already marked as cardiology-related, lower specificity was an acceptable trade-off for increased sensitivity (e.g. “valve” would no longer match “Machinery valves” as it would only be tested against cardiology-related patents and would thus only match patents related to cardiac valves).

Aortic subgroup

* aorta
* aortic
* aorto

Cardiac imaging subgroup

* computed tomography
* echocardio
* gadolinium
* imaging
* magnetic resonance
* ultrasound

Cardiac oncology subgroup

* cancer
* myxoma
* oncolog
* sarcoma

Electrophysiology subgroup

* arrhythmia
* cardiover
* defibrill
* dysrhythmia
* fibrillation
* pacemaker

Heart failure subgroup

* heart failure
* resynchronization therapy

Infectious cardiology subgroup

* bacteria
* endocarditis
* infect
* viral
* virus

Interventional cardiology subgroup

* alcohol septal ablation
* angioplasty
* cardiac biopsy
* catheterization
* coherence tomography
* interventional
* intracoronary
* intravascular ultrasound
* myocardial biopsy
* percutaneous
* stent
* TAVR
* TMVR
* transcatheter

Valvular subgroup

* aortic
* bicuspid
* mitral
* pulmonic
* regurgitation
* tricuspid
* valve
* valvular

Vascular subgroup

* aorta
* aortic
* aorto
* arterial disease
* artery disease
* arterioscl
* atheroscl
* vascul