## Appendix 1. TAVI Patient Referral Card

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Date | |  | | | Referring Centre | |  | | |
| Patient Information | | | | | | | | | |
| Name | |  | | | | Age |  | | |
| ID | |  | | | | Weight |  | | |
| Address | |  | | | | Height |  | | |
| Phone | |  | | | | BMI |  | | |
| Clinical Information | | | | | | | | | |
| Diagnosis | | | | | | Symptoms | Vertigo | | □ |
| Syncope | | □ |
| Angina CCS | | □ |
| Dyspnoea NYHA | | □ |
| Artery disease | Ischaemic heart disease | | □ |
| Previous myocardial infarction | | □ |
| Previous PCI | | □ |
| Previous CABG | | □ |
| Previous stroke | | □ |
| Significant carotid artery disease | | □ |
| Significant lower limb artery disease | | □ |
| Cardiac arrhythmias | Atrial fibrillation | | □ |
| RBBB | | □ |
| LBBB | | □ |
| Pacemaker / ICD / CRT-D | | □ |
| Wady serca | Heart failure | | □ |
| Significant aortic valve regurgitation | | □ |
| Significant mitral valve regurgitation | | □ |
| Previous aortic valve replacement | | □ |
| Previous mitral valve replacement | | □ |
| Inne obciążenia | Renal failure | | □ |
| Risk | Euroscore II | | | | | Chronic pulmonary disease | | □ |
| STS | | | | | Neurologic disease | | □ |
| Katz ADL | | | | | Cancer | | □ |
| 5 metre walk test | | | | | Anaemia | | □ |
| Qualified to TAVI | Yes  TAVI system | | No | Proposed date | | TAVI Team signatures  Date | | | |
| Route | Transfemoral | | Other | | | Interventional Cardiologist | | Cardiac Surgeon | |

## Appendix 2. Checklist for TAVI procedure

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PATIENT** | | | | | | |
| Name | | | Date of birth | | | |
| Invasive Cardiologists | | | Cardiac Surgeons | | | |
| **ANAESTHESIA** | | | | | | |
| Anaesthesia | Local □ | | General □ | | | |
| Lines | Arterial | | Temporary RV pacing □ | | | |
| Venous □ | |  | | | |
| **TAVI SYSTEM** | | | | | | |
| Access | Transfemoral R / L □ | | Access | | Min. artery diameter | |
| Subclavian □ | | Percutaneous □ | | R | L |
| Transcarotid □ | | Surgical cutdown □ | |  | |
| Direct Aortic □ | |  | |  |  |
| Transapical □ | | Tortuosity | | Arterial □ | Aortic □ |
|  | | Calcification | | Arterial □ | Aortic □ |
| Valve type | Brand | | Aortic annulus | | Diameter | |
| Area | |
| Size | | Perimeter | |
| **VALVE IMPLANTATION** | | | | | | |
| RV pacing required □ | | | Aortic valvuloplasty required □ | | | |
| Coronary ostia | RCA mm | LCA mm | Preventive coronary artery wiring required □ | | | |
| Imaging | C-arm projection | | TOE required □ | | | |
| **PROCEDURAL RISK FACTORS** | | | | | | |
| CAD | Incomplete revascularisation □ | | PCI required □ | | | |
| Valve positioning | Large, focal calcium deposits (→PVL) □ | | | | | |
| Narrow coronary sinuses (→coronary artery occlusion) □ | | | | | |
| Narrow STJ (aortic root rupture) □ | | | | | |
| Significant mitral valve calcification (aortic root rupture, valve positioning) □ | | | | | |
| Heart morphology | Right ventricle failure □  Significant tricuspid regurgitation □  Significant pulmonary hypertension □ | | LVEF<40% □  Low left ventricular ejection volume □  Significant mitral regurgitation □  LA thrombi □ | | | |
| Renal function | Creatinin/eGFR |  | Type of contrast | | | |
| Arrhythmias | Atrial fibrillation □ | | AV block □ | | RBBB □ | LBBB □ |
| Electrotherapy | Pacemaker □ | ICD / CRT-D (re-programming before RV pacing) | | | | |
| Respiratory system | Asthma / COPD □ | | |  | | |
| Stature | Obesity □ | Low height □ | Skoliosis □ |  | | |
| **DRUGS** | | | | | | |
| Previous bleeding □ | | | | | | |
| Antiplatelet drugs | Aspirin □ | Clopidogrel □ | Ticagrelor □ | | Other □: | |
| OAC | Acenokumarol □ | Warfarin □ | Rivaroxaban □ | | Dabigatran □ | |

## Appendix 3. TAVI procedure control chart

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Patient Name | | |  | TAVI System | |
|  | Valve size |  |
| Age | | **Sex** |  | Access: transfemora│ other | Side R L |
| STS | | **ES II** |  |  |  |
| Operators | | |  |  |  |
|  |  |  |
| PERSONNEL | | |  | **EQUIPMENT** | |
| □ | Briefing: description of possible procedural risks | | □ | TTE, TOE | |
| □  □ | acute care unit ready for patient admission cardiac surgeon, vascular surgeon, invasive cardiologists assisting or on alert | | □ | Femoral artery occluders | |
| □ | 1-2 pigtail catheters | |
| PROCEDURAL STRATEGY | | | □ | Predilatation aortic balloon: size | |
| □ | Sedation / general anaesthesia | | □ | Postdilatation aortic balloon: size | |
|  | TOE on standby / continuous | | □ | Spare TAVI system | |
| □ | Venous access for temporary pacing  carotid, subclavian or femoral | | □ | Rescue TAVI system (in valve dislocation): size | |
| □ | Additional arterial line for blood pressure monitoring: radial or femoral | | □ | Femoral sheaths (6, 10, 14, 18 F) | |
|  | C-arm projection (MSCT or 3D-TOE derived) | | □ | Guidewires: floppy J-curved and straight, teflon-coated | |
| □ | Coronary artery guidewire protection? | | □ | Guidewires: stiff straight and preshaped | |
| □ | Predilitation? | | □ | Coronary guidewires | |
| □ | RV pacing during valve implantation? | | □ | Guiding catheters: AL1, AL2, JR, pigtail, JL, JR | |
| PATIENT | | | □ | Temporary pacing electrode | |
| □ | Identity confirmed | | □ | Pacemaker (burst or > 200 bpm capable) | |
| □ | Written informed consent | | □ | Pericardiocentesis set | |
| □ | Blood type sampled and cross-matched | | □ | ECMO | |
| □ | Blood bags prepared | | □ | Cardiac surgery / Vascular sugery equipment | |
| □ | Blood morphology | | □ | Coronary angiography and PCI equipment | |
| □ | Creatinine, eGFR | | □ | Peripheral artery stenting equipment | |
|  | Antiplatelet drugs, anticoagulation | | □ | Endografts | |
| □ | INR, APTT | | □ | Cerebral protection systems | |
| □ | LVEF | | □ |  | |
| □ | Allergies | | **FINAL DECISIONS** | | |
| □ |  | | □ | TAVI outcome assessment fluoroscopy: position, symmetry, aortography, pressure gradients, echocardiography, ECG | |
| □ |  | | □ | Vascular access closure | |
| □ |  | | □ | Temporary pacing lead removal | |
| □ |  | | □ | Patient clinical status assessment | |
| □ | **SUMMARY** | | | | |
| □ | Procedural time | | □ | Decision on further intensive care, ambulation and pharmacotherapy | |
|  | Fluoroscopy time | |
| □ | Radiation dose | | □ | Data backup: procedural reports, anaesthesia charts, cine, pressure recordings, echocardiography, ECG | |
| □ | Contrast volume | | Comments: | | |
| Nurse / Medical Technician signatures | | | **Operators signatures** | | |