ANATOMÍA CORONARIA: ANGIOGRAFÍA
Anatomía coronaria normal.

- Coronaria derecha
  - 1-3 proximal/mid/distal
  - 4 posterior descending
  - 5 posteroatrioventricular
  - 6-8 first-third posterolaterals
  - 9 inferior septals
  - 10 acute marginals

- Coronaria izquierda
  - 11 LM
  - 12-14 prox/mid/distal LAD
  - 15-16, 29 first-third diagonals
  - 17 septals (anterior)
  - 18-19, 23 prox/mid/distal LCx
  - 20-23 obtuse marginals
  - 24-26 first-third posterolaterals
  - 27 LPDA
  - 28 ramus intermedius
Proyecciones

- RAO-caudal: left main, prox LAD/LCx/marginals
- RAO-cranial: mid/distal LAD (w/o overlapping diag/sept)
- LAO-cranial: mid/distal LAD in orthogonal view
- LAO-caudal: LM, prox LCx
- LAO-cranial: origin of RPDA
- RAO-cranial: mid/distal RCA
- PA/lateral: ostium LM/LIMA
Lo normal...

- **Dominance:** the vessel that supplies the posterior diaphragmatic portion of interventricular septum and LV (i.e. gives off PDA)
- 85% right dominant, 8% left, 7% codominant
- Most easily assessed in LAO-cranial
LM usually easily engaged with Judkin left (JL) 4 or JL5 if dilated aortic root.

LM: arises from left aortic sinus, ave 3-6mm in diameter, passes behind the RV outflow tract, 0-10mm in length, typically bifurcates into LAD/LCx

37% LM tripurcates into LAD/LCx/ramus medianus; less frequently no LM and separate ostia of LAD/LCx

View: RAO caudal/LAO caudal
Coronaria izquierda: DA

- LAD: travels down anterior interventricular groove towards apex
- Septal branches come off @90° off LAD, supplies IV septum
- Diagonal branches supplies anterolateral LV; >90% pt have 1-3 diagonals;
- View: cranial views; steep LAO cranial (80/40) or shallow RAO cranial needed for origin of diagonals
Coronaria izquierda: Cx

- LCx: branches off LM and courses down left AV groove; 85% is non-dominant vessel; divided into prox/distal LCx
- Typically gives off 1-3 obtuse marginals which supplies free wall of LV along lateral aspect; also gives rise to 1-2 LA Cx branches
- Distal LCx usually tapers off if non-dominant
- Views: ostium: LAO/RAO caudal; OM: AP caudal or RAO 5-15 caudal; LPDA: LAO cranial
Coronaria derecha (RCA)

- RCA: originates from right aortic sinus, passes down to the right AV groove towards the crux (R/L AV groove and IV groove meet.)

- 1st branch: conus branch, 50% off RCA, 50% separate ostium; supplies RVOT; important source of collateral to LAD. 2nd branch: sinoatrial node branch: off RCA 59%, off LCx 38%, dual supply 3%. 3rd: acute marginals supplies ant wall of RV. 4th: PDA supplies post wall/IV septum 5th: PL branches

- Views: LAO/RAO cranial, typically JR4 catheter