

# Repair of Atrioventricular Canal Defects: Long-Term Outcome

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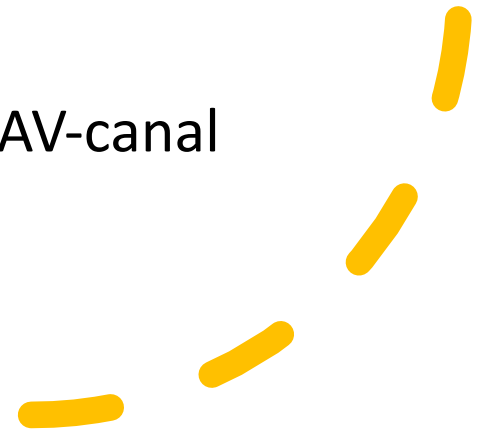
Disclosures

No conflicts of interest




# Introduction

- Atrioventricular (AV) canal defects are rare and complex congenital diseases
  - Abnormal communications between the atria and ventricles along with malformations of the AV valves
  - The defects lead to pulmonary overload
    - pulmonary hypertension and
    - heart failure
- Down syndrome is often associated with AV-canal defects



# Methods

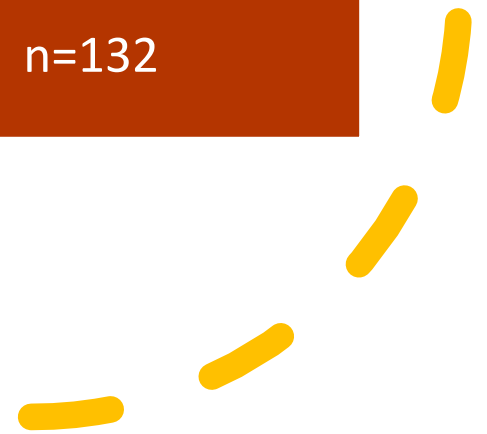
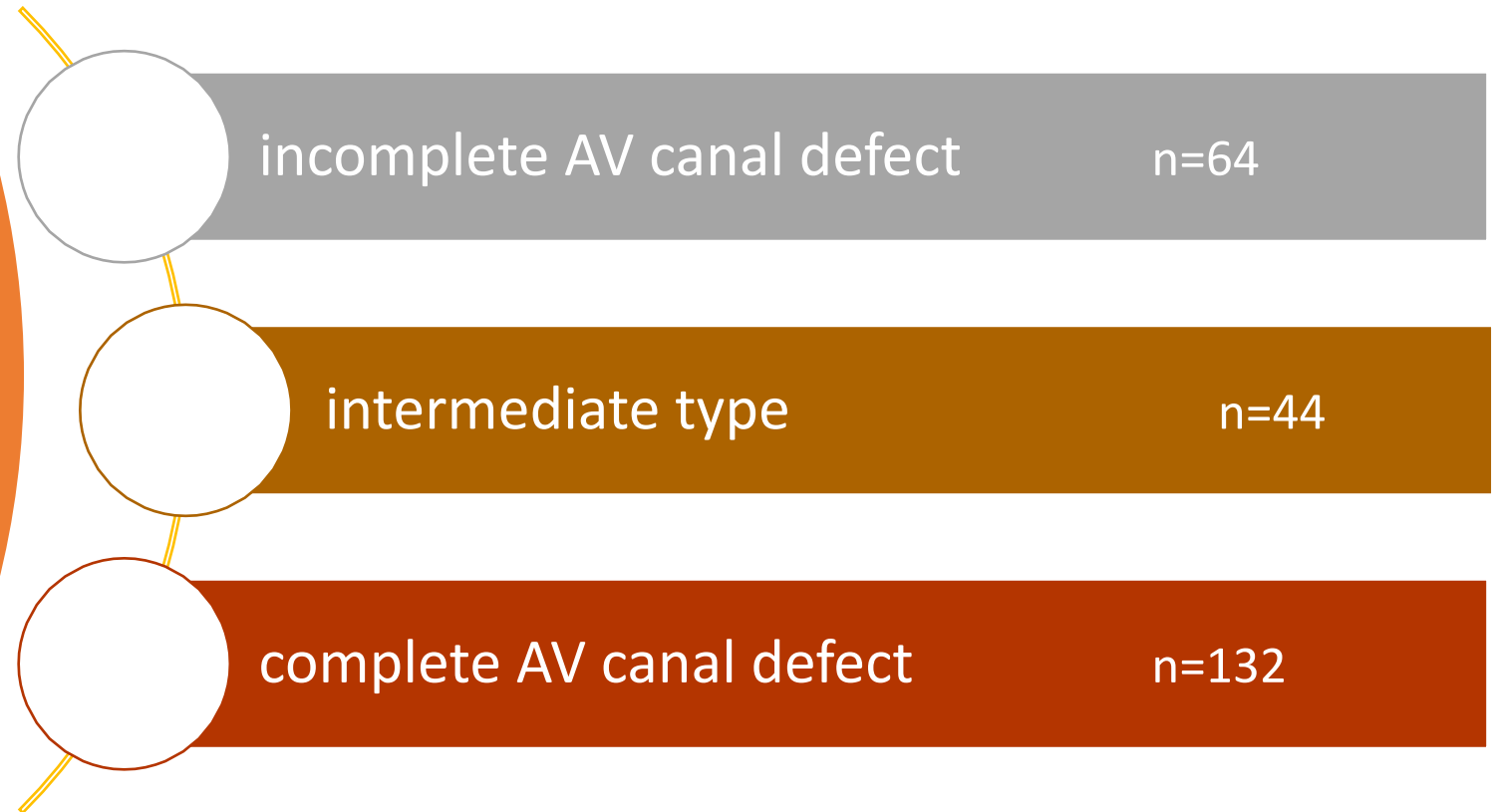
- The aim of the study was the analysis of outcomes after correction of AV-canal defects
  - retrospective study
  - repair between 1986 and 2016
  - mean follow-up 113 months
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# Results

- 241 patients underwent AV canal repair
  - male n=100
  - female n=141
- 124 patients (51%) had had Down's syndrome
- 21 patients with previous cardiac surgery

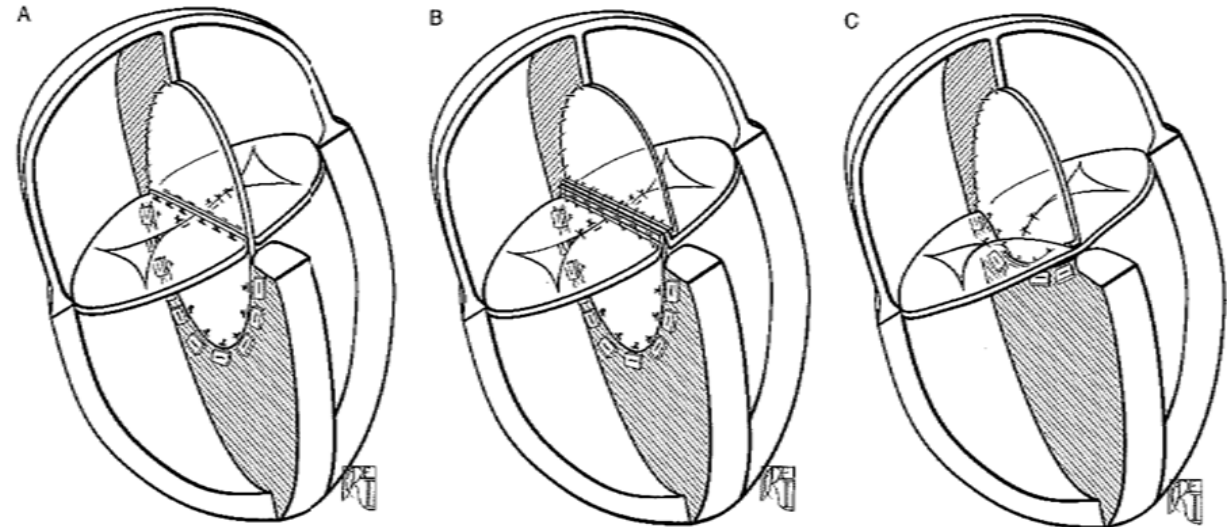
	n=
PA banding	7
PA banding + duct	5
PA banding + CoA	2
CoA	4
other	3

# Results



# Results

	n=
double-patch technique	29
single-patch technique	86
modified single-patch technique	17



# Results

## EARLY OUTCOME

Deaths: 14 patients (30-day mortality 5.8%)

- Down n=9, non-Down n=5 (p<0.05) -

permanent pacemaker n=5 (2%)





## Results

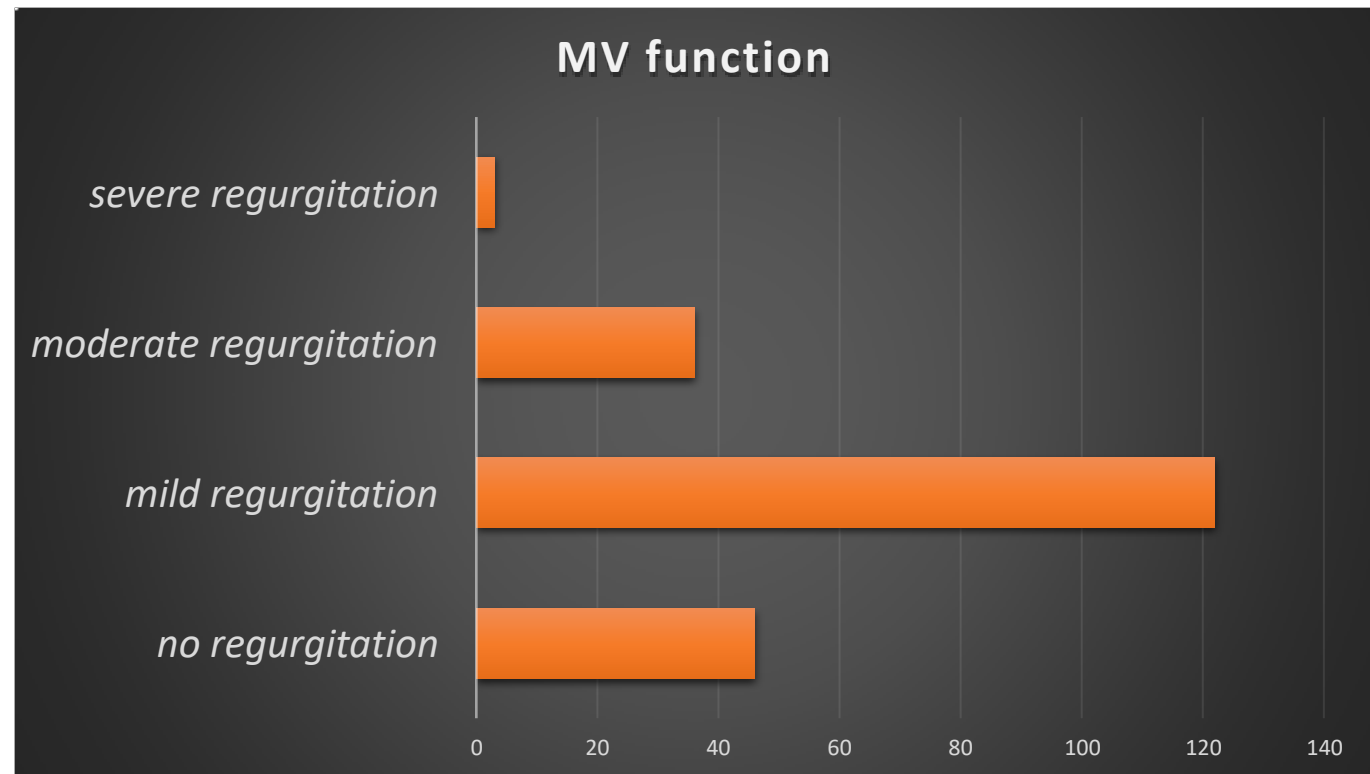
**LATE OUTCOME**

Late deaths: 9 patients

Cardiac redo procedures	n=
MV repair	9
MV repair + other procedures	7
MV replacement	3
Resection of subaortic stenosis	7
other procedures	4
permanent pacemaker	16
ICD/CRT device	2

# Results

## Echocardiography at last follow-up



# Conclusions

Long-term outcome after repair of AV-canal defects is very good with low re-operation rate during long-term follow-up.

The function of left-sided AV valve and development of arrhythmias are crucial.

Careful and life-long follow-up is mandatory.



*Merci!*

Thank you!

*Danke!*



