

# STS/EACTS Latin America Cardiovascular Surgery Conference

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## Safe Preservation of Myocardial Function with del Nido Cardioplegia in CABG Patients

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The Society  
of Thoracic  
Surgeons



**EACTS**  
European Association For Cardio-Thoracic Surgery



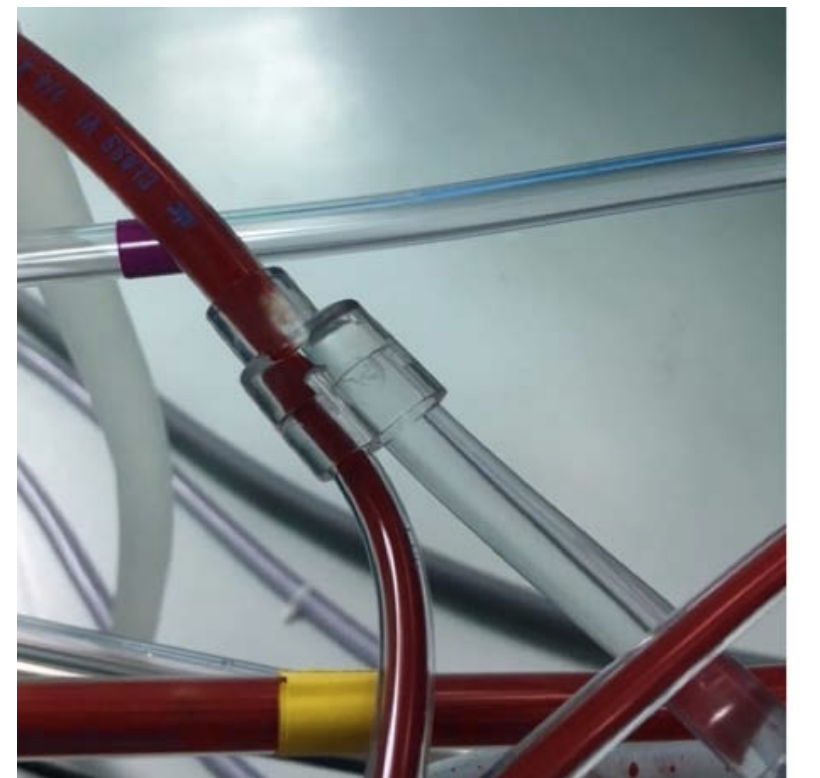
**No Disclosure**

# Del Nido and CABG surgery

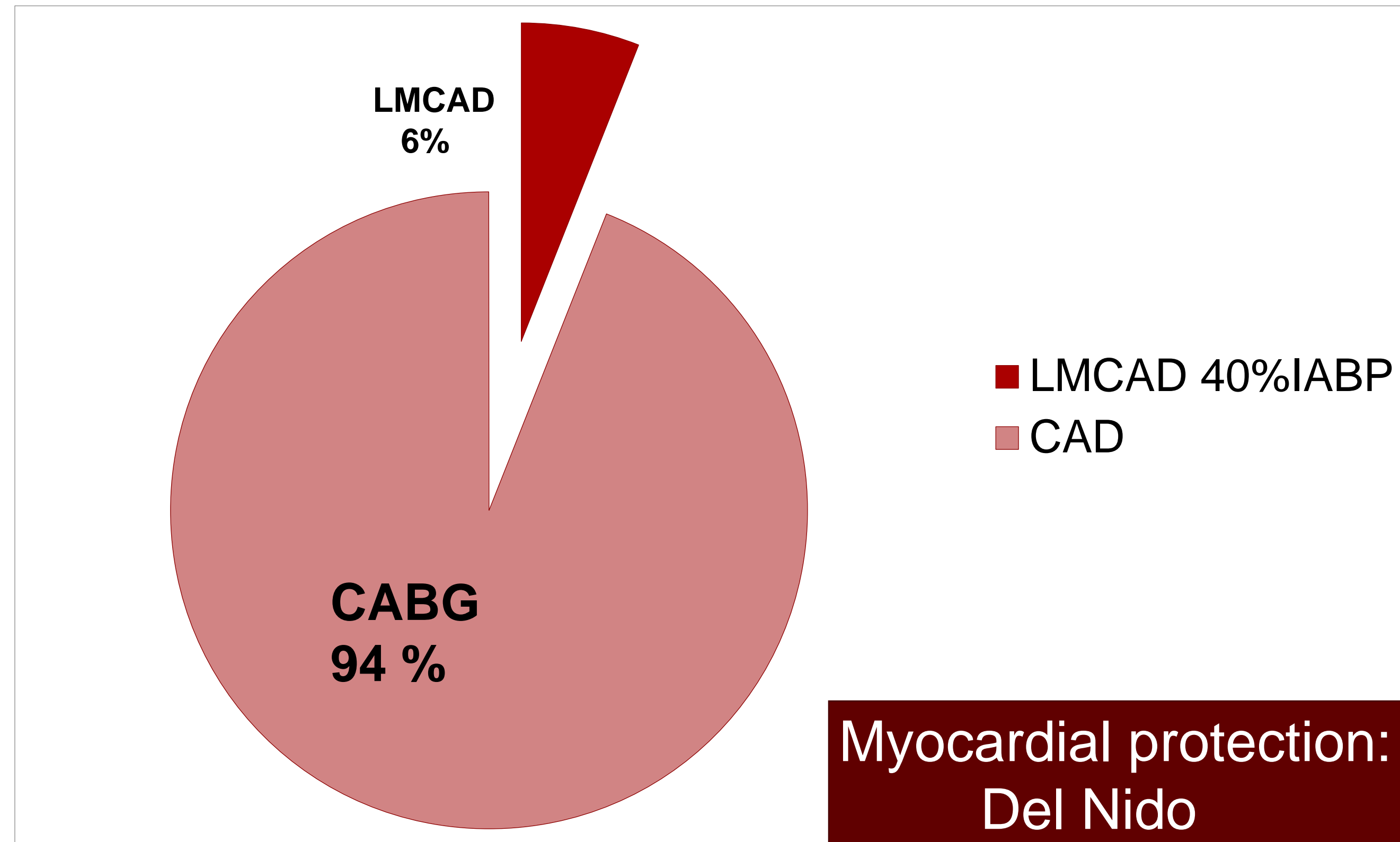
## Purpose

- Myocardial protection is crucial for a positive outcome during revascularization and the postop period.
- **4:1** solutions have been the cornerstone in adults.
- Del Nido cardioplegia **1:4** has been used in **pediatric and non-coronary adult surgery**

***Limited data is available on its use during CABG.***



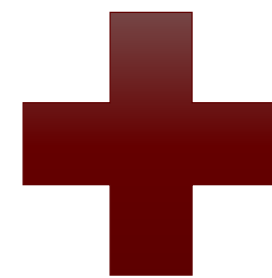
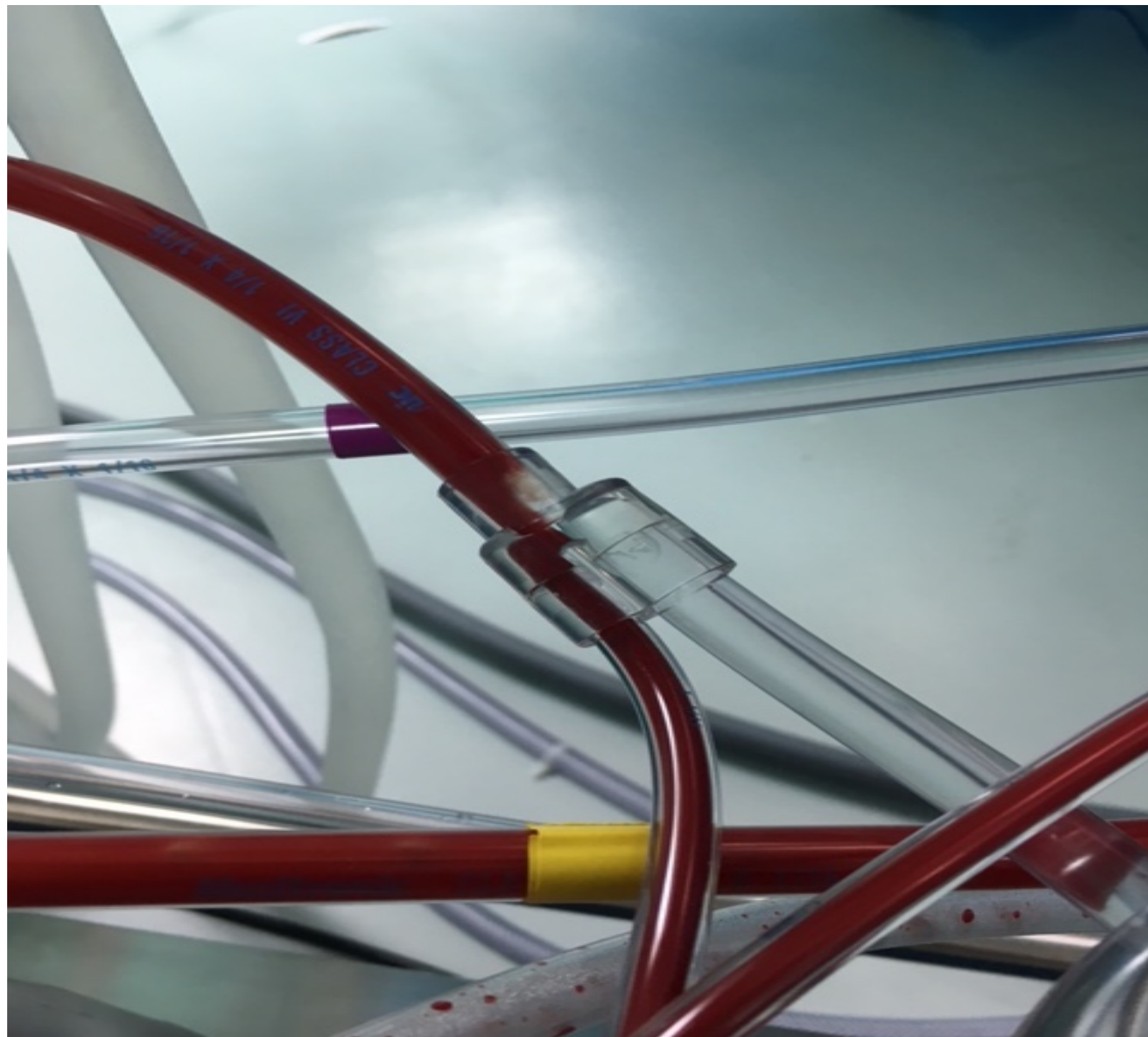
# Methods: 194 CABG Jan 2017- Jan 2017



# Methods: Del Nido Preparation

:

4 °C



<b>Manitol 20%</b>	<b>16,3 ml</b>
Magnesium Sulfate 50%	4 ml
Na Bicarbonate	13 ml
KCL (2meq/ml)	13 ml
Lidocaine 1%	13 ml

# Del Nido Administration

## Dose:

- 1,1 Lt. **male** patients
- 1 Lt. **female**.
- 1,4 Lt. for **Hypertrophied hearts**.

## Time:

- Every **60 min** antegrade

## Temperature:

- Patient's Temperature **34°C**

# Findings - CABG & DeNido

STS Score	Age mean	Female	Pump Time	XClamp
1.21 % (0.21 – 4.4)	63	21%	85 min	75 min

HCT after DLN	Blood Products	Cellsaver	Mean seric K <sup>+</sup> after DLN	Mean Glucose
27 %	21 %	100%	4.3 Meq/Lt	146 mg/dl

EF (TEE) pre-post DLNido	Spontaneous rhythm recovery	Need of Defibrillation	Inotropes	IABP
52%- 52%	152 seconds	0	72% 1 (Dobutamine)	0

Extubation time	ICU Stay	Length Of Stay	Mortality
4. 8 Hrs	4 days	8 days	0.5 %

# Conclusion DLN in CABG

- DLN cardioplegia in adult CABG patients with intervals of **60 minutes**:
- **Safe** and **effective myocardial protection** strategy preserving myocardial function post CPB.
- Achieves optimal clinical parameters.
- Promotes spontaneous defibrillation.
- Shortens Surgical time.



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# Thank You

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