



3rd INTERNATIONAL CONFERENCE ON CARDIOLOGY

November 30-01 December, 2023 | Dubai, UAE

TITLE: "Diagnosis of myocardial infarction in left bundle branch block"

Name: Dr. Jakob Nimpf

Affiliation: Internal medicine specialist University hospital of Krems

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Country: Austria

Email ID: Jakob.nimpf@krems.lknoe.at

ABSTRACT

Complete left bundle branch block in patients with acute myocardial infarction is a challenging clinical situation with potentially poor outcome due to delayed diagnosis and/or misinterpretation^{1, 2, 3}.

In my case presentation I want to present a patient whose ECG showed a complete left bundle branch block at the time of myocardial infarction in the year 2022 which, in accordance to the Sgarbossa criteria⁴, could be interpreted as ST-elevation myocardial infarction (STEMI)-equivalent. Interestingly a prior ECG of the patient from the year 2018 which could be acquired retrospectively showed left axis deviation, left anterior hemiblock with additional unspecific conduction delay with broad QRS complex (115 ms) and normal ST-T segments.

We want to discuss why this patient developed a complete left bundle branch block and correlate this conduction abnormality with the anatomical blood supply. In coronary angiography the proximal CX (ramus circumflexus) was subtotally obstructed, a drug eluting stent was implanted. With proximal and medial LAD (left anterior descending) stenosis, further 2 drug eluting stents had to be implanted in these locations.

The patient had very good outcome and could be transferred to his local hospital the day after revascularization and myocardial infarction. He did not develop any arrhythmias or cardiogenic shock. The described case clearly demonstrates the importance of correct interpretation of left bundle branch block in myocardial infarction.

1. Dunn RF, Newman HN, Bernstein L, et al. *Circulation* 1984;69:477-484
2. Erne P, Iglesias JF, Urban P, et al. *Am Heart J* 2017;184:106-113
3. Pera VK, Larson DM, Sharkey SW, et al. *Eur Heart J Acute Cardiovasc Care* 2018;7:208-217.
4. Sgarbossa EB, Pinski SL, Barbagelata A, et al. *N Engl J Med* 1996;334:481-487.



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BIOGRAPHY

Dr. Jakob Nimpf is an internal medicine specialist at the University hospital of Krems in Austria and currently trainee in cardiology. He is also general care physician, sports medicine specialist and has great interest in heart failure as well as echocardiography and cardiac rehabilitation.

Apart from his medical career Dr. Jakob Nimpf was an amateur athlete himself, in 2008 he was European mountainbike marathon champion in the category under 23 years in Albstadt/Germany. In 2011 he was vice champion in mountainbike marathon of Austria and in 2013 he was amateur world champion mountainbike marathon at the World Games Saalbach Hinterglemm.

Presenter Name: Dr. Jakob Nimpf

Mode of Presentation: Webinar

Contact number: 0043 2732 9004 22063

