

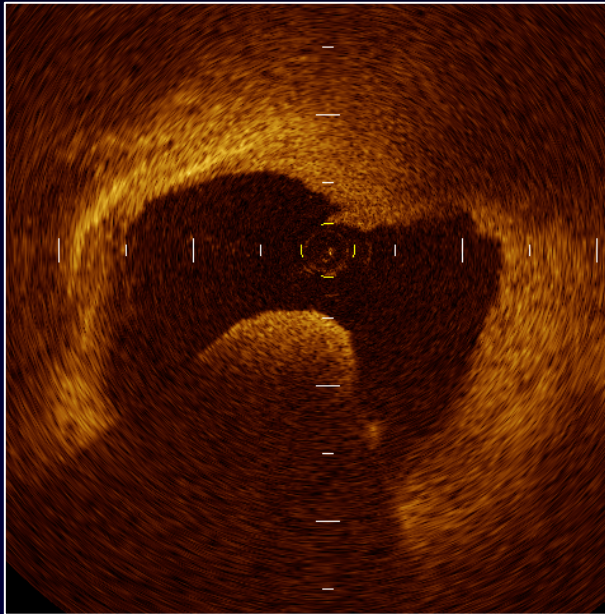
Evaluation of Intracoronary Thrombus After DES Implantation

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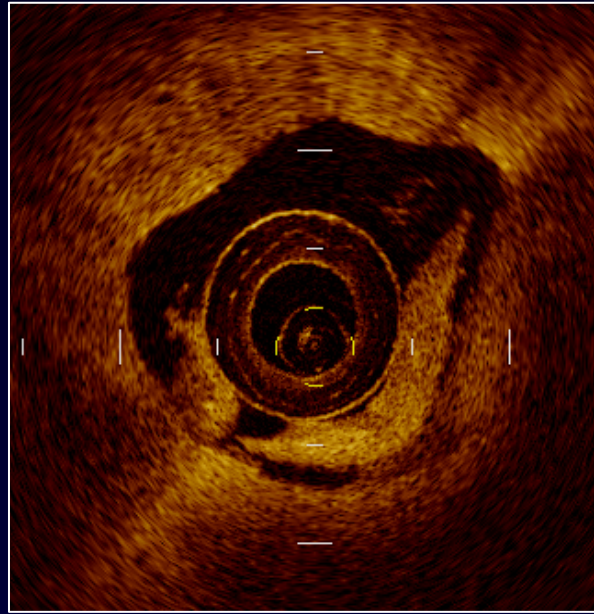
Red & White thrombus

Red thrombus



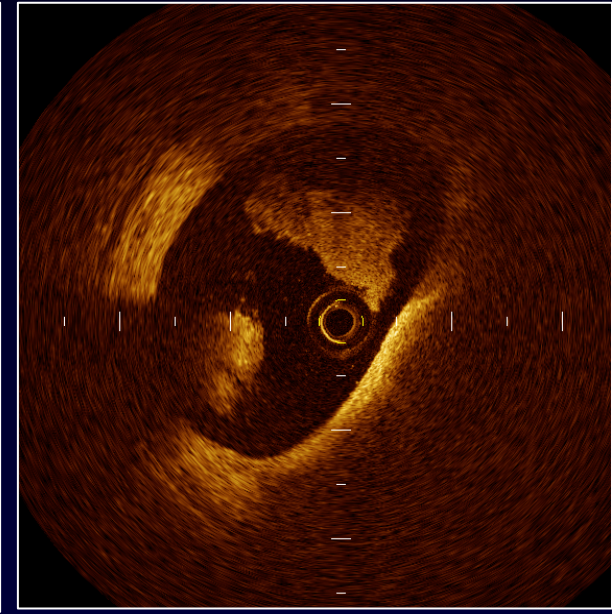
**Protrusion mass
with shadow**

White thrombus



**Protrusion mass
without shadow**

Mixed thrombus

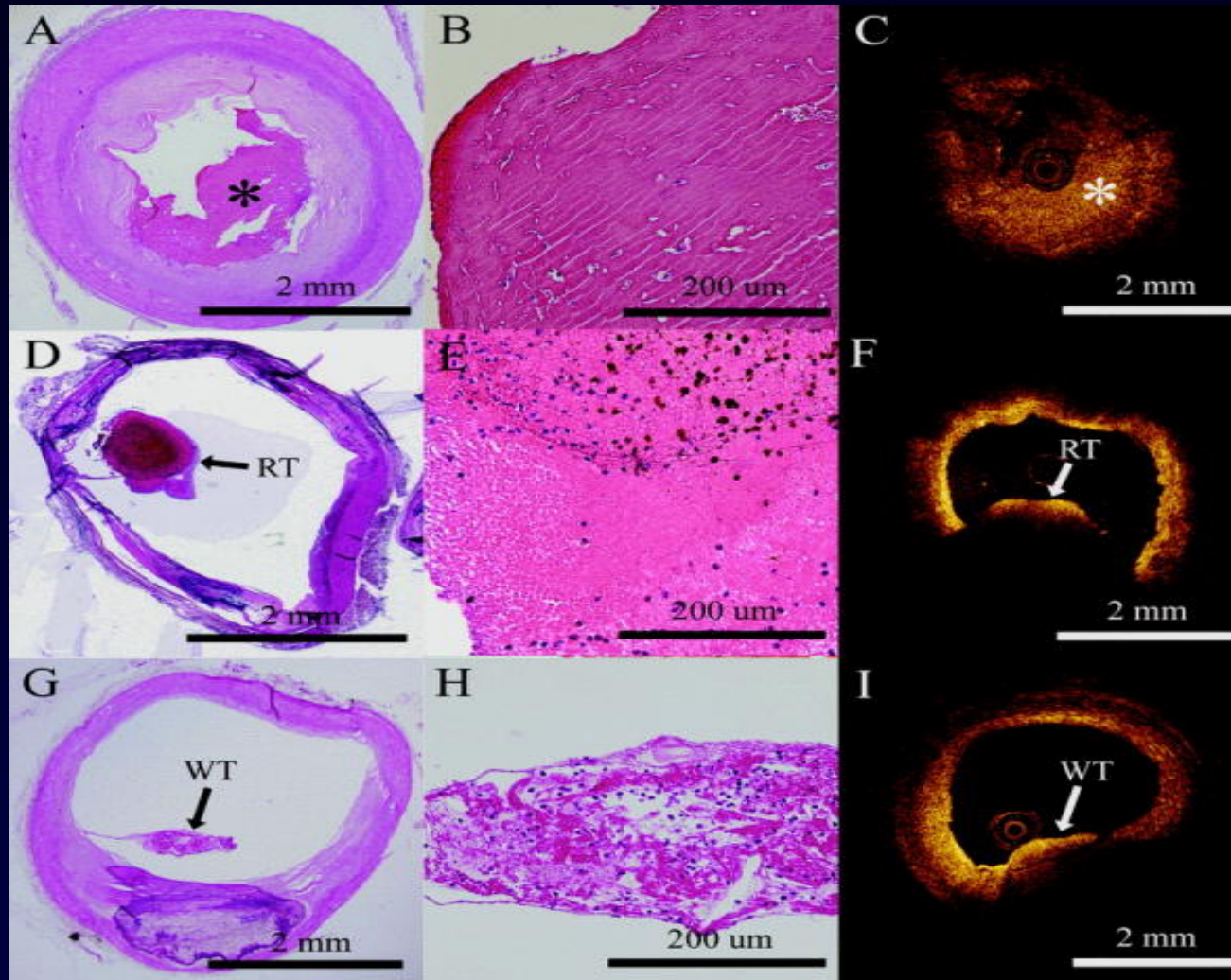


**Protrusion mass
with & without shadow**

Kume T, Akasaka T, et al Am J Cardiol 2006;97:1713-7

Kubo T, Akasaka T, et al. J Am Coll Cardiol 2007;50:933-9

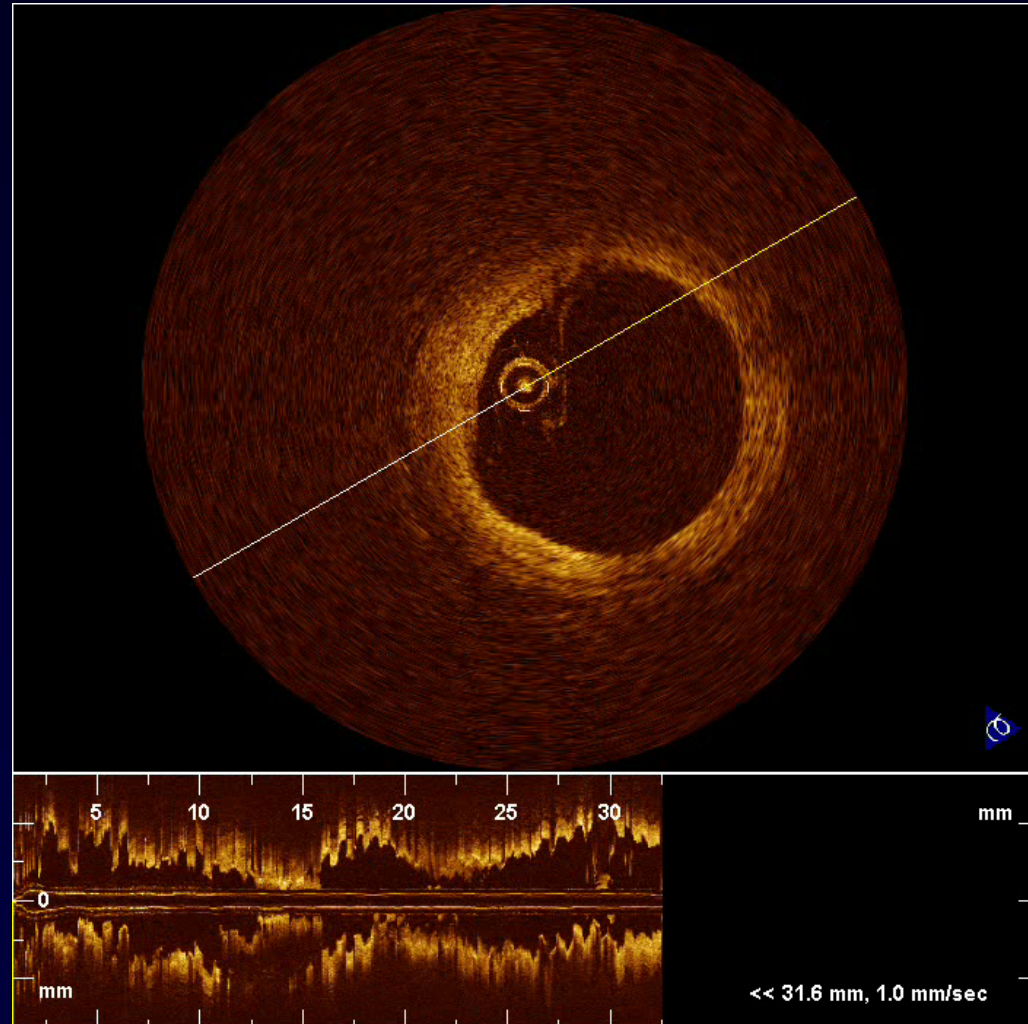
Fibrin Clot



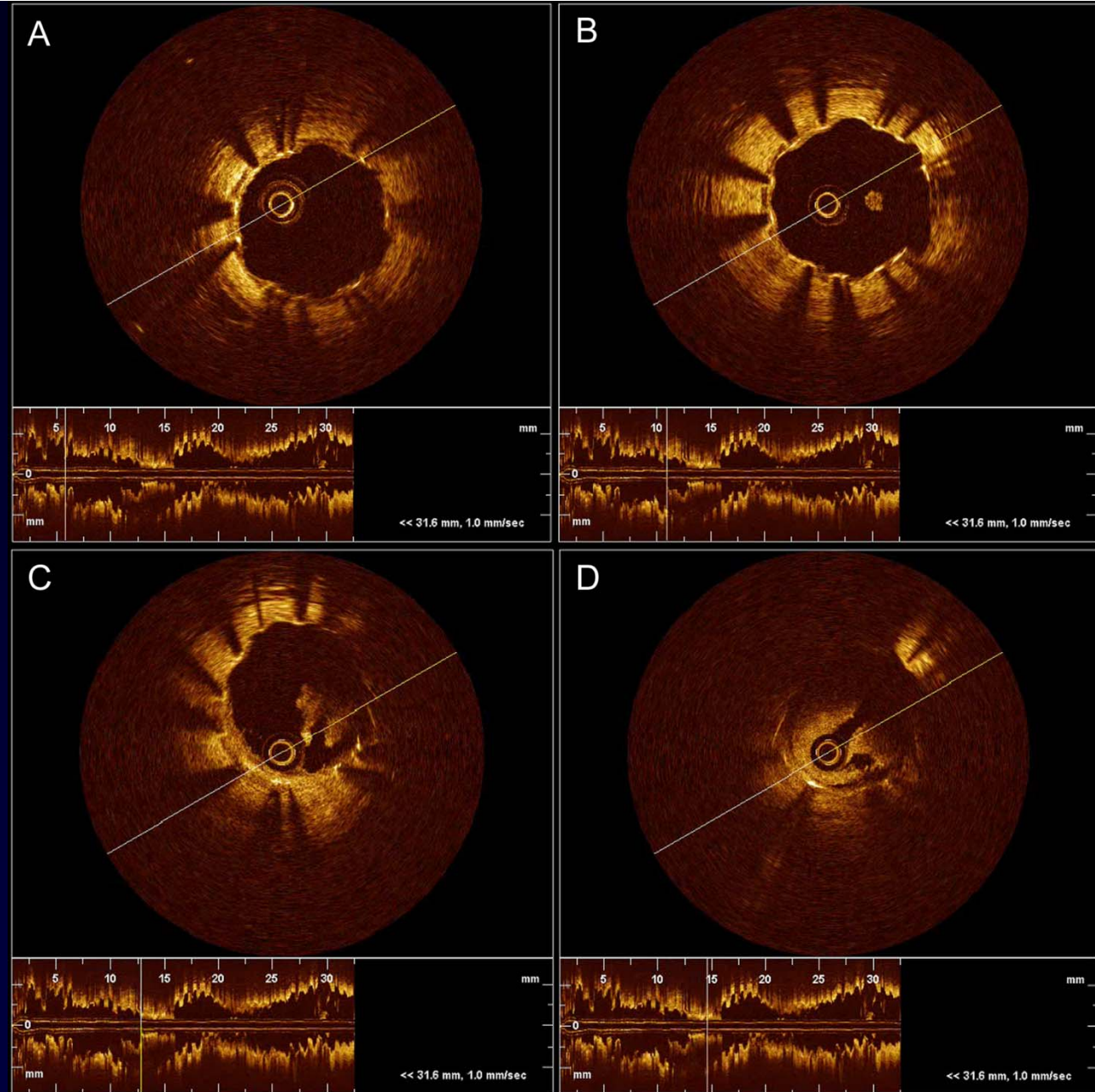
Kume T, et al. *Circulation* 2008;118:426-7

OCT

Chest pain
during OCT
procedure

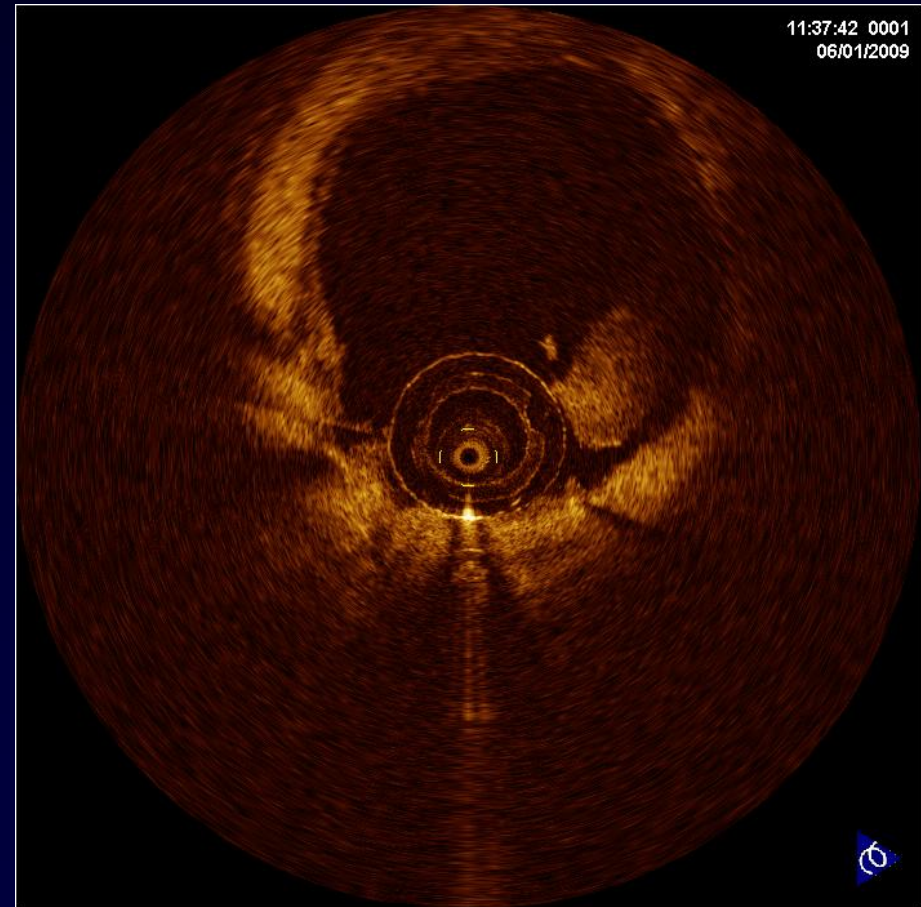
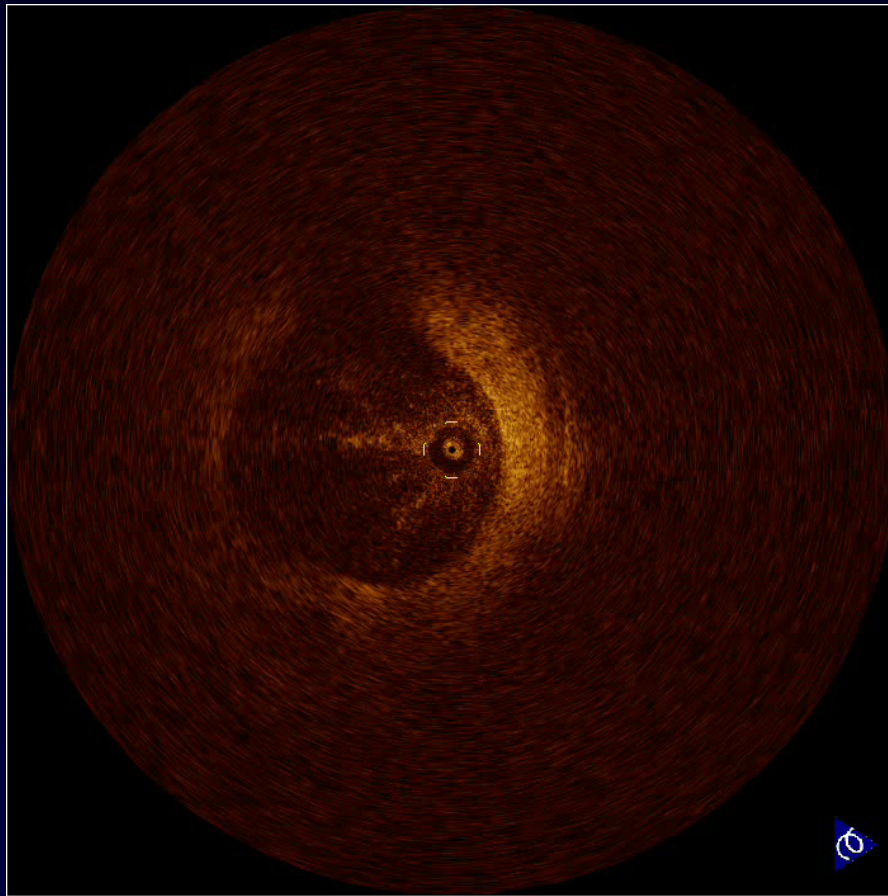


Thrombus formation during the OCT procedure

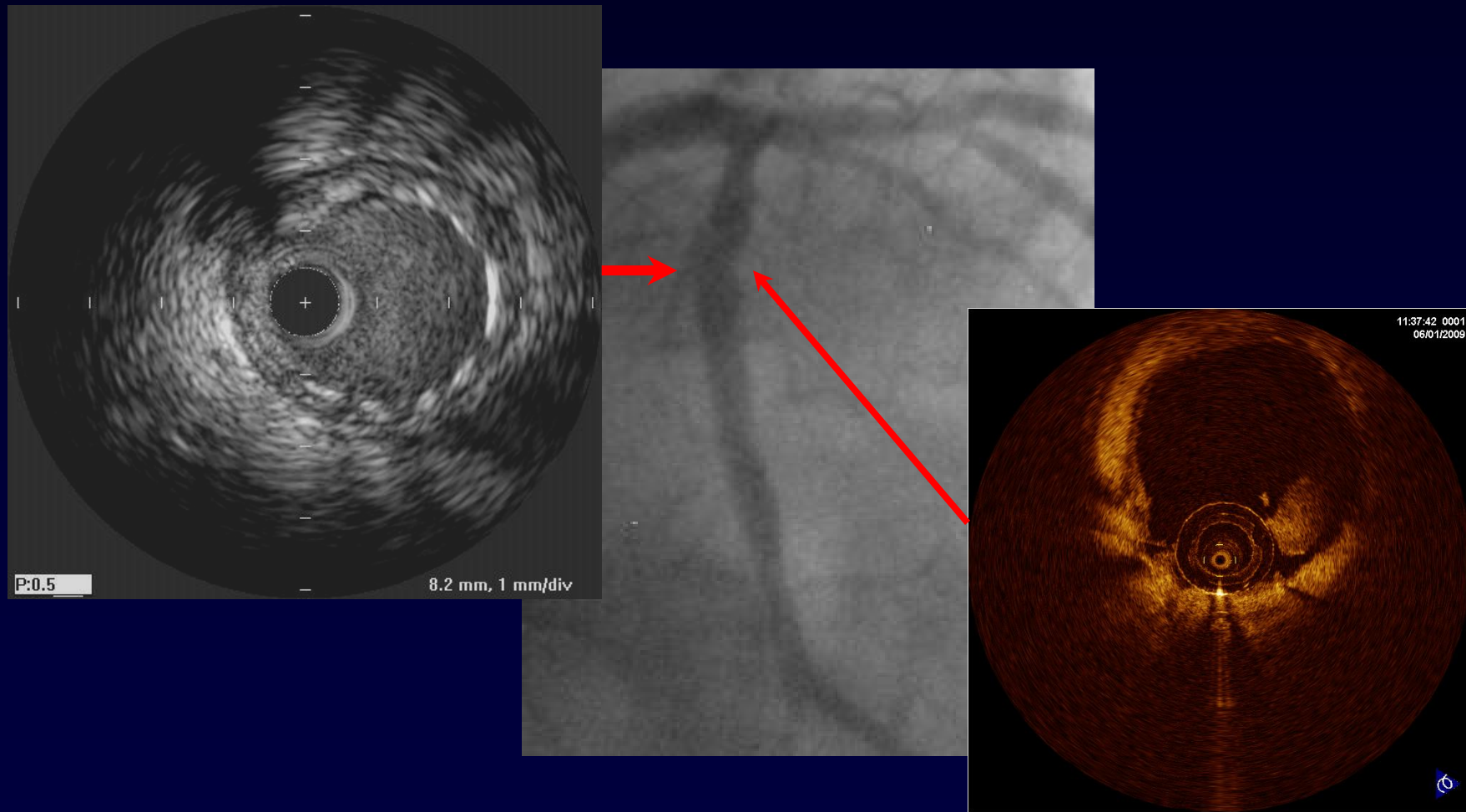


Kim JS, Kim JS, et al. Circulation 2008

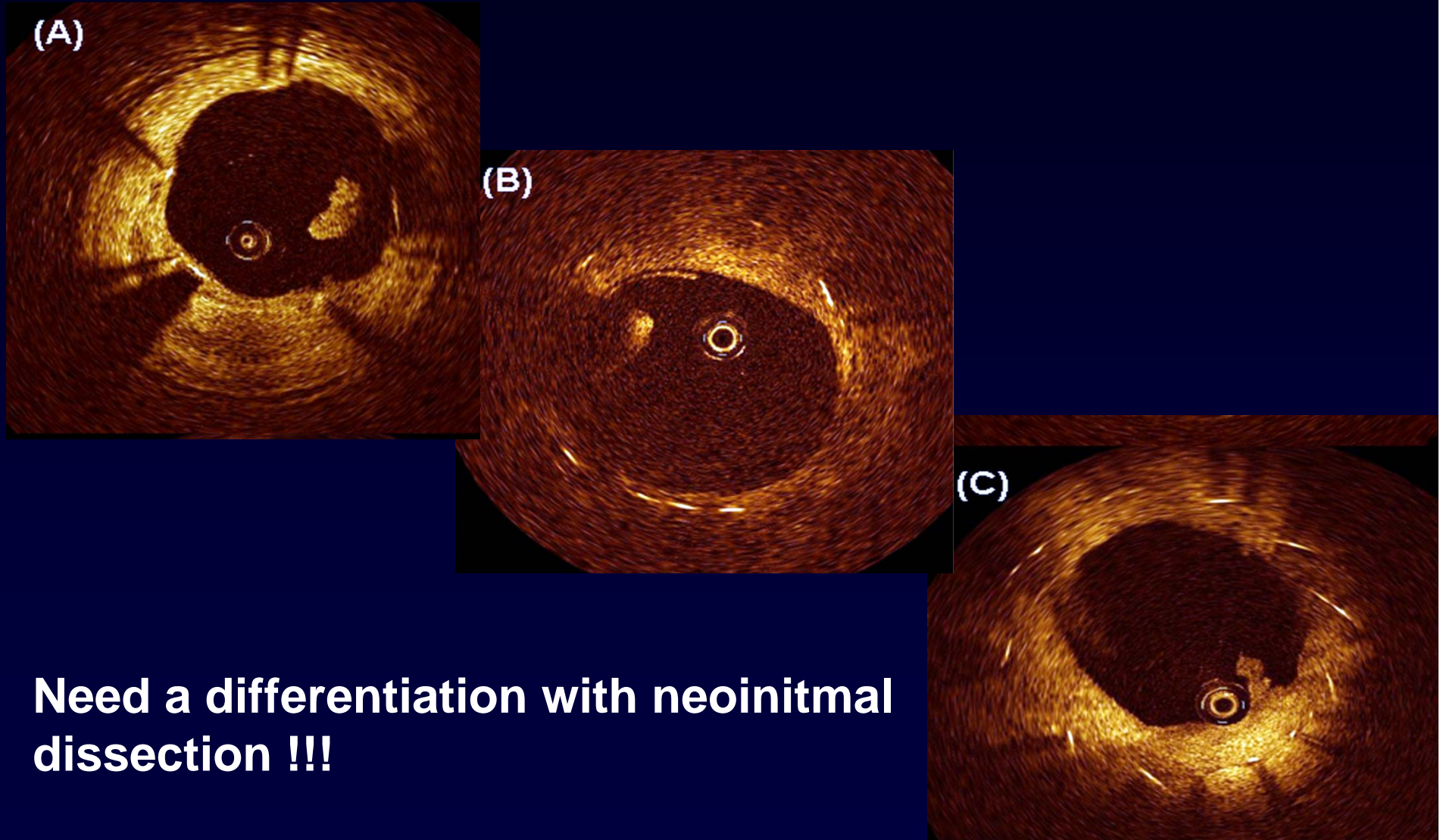
Stable angina (9-month FU)



Stable angina (9-month FU)



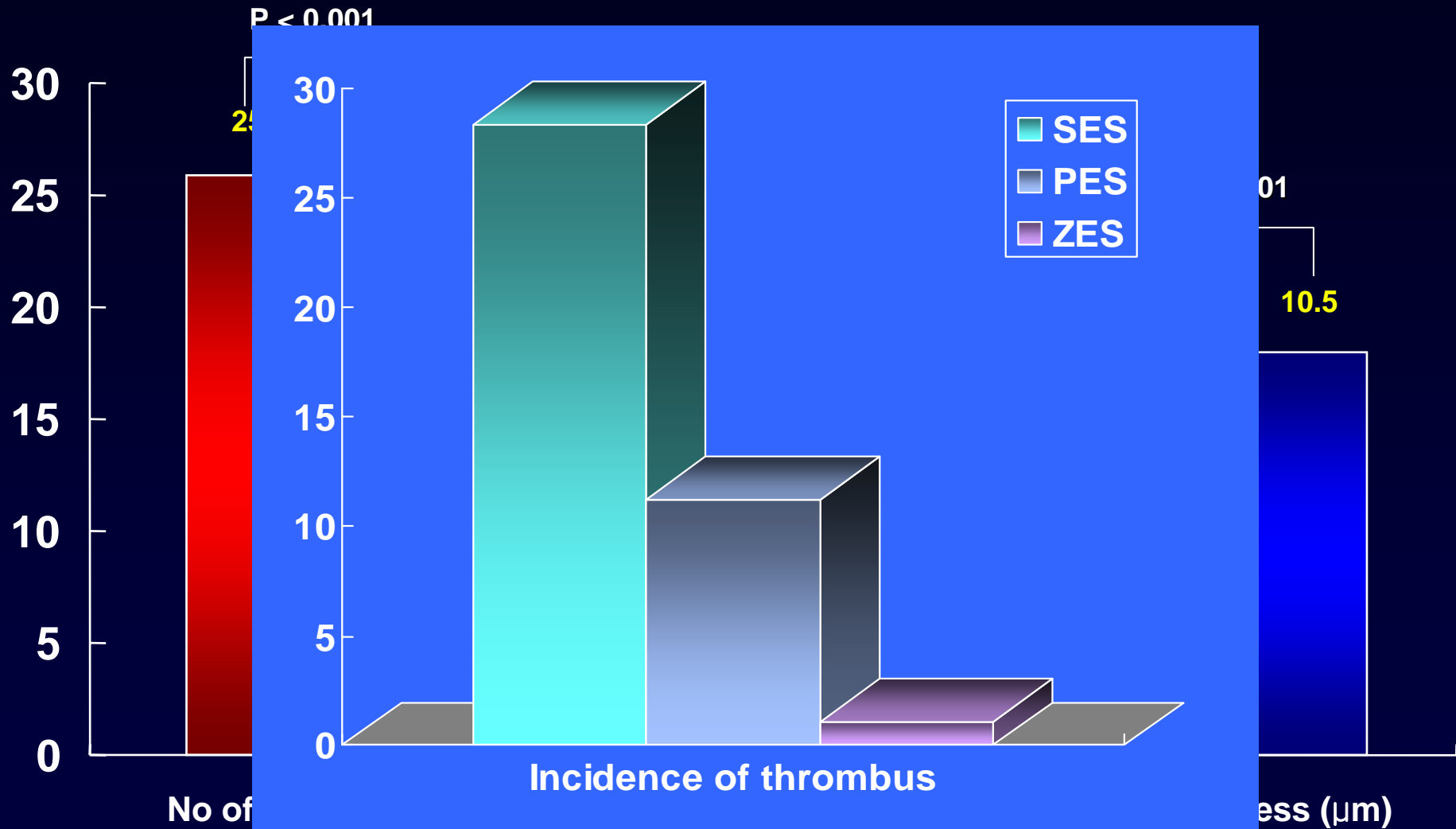
Intracoronary Thrombus



Need a differentiation with neointimal dissection !!!

Intracoronary Thrombus - 244 stents (216 patients)

Thrombus was detected in 35 stents (14.3 %)



Kim JS, et al. AHA 2009

Results

MACE

- **Group without thrombus**
 - **2 CV deaths (1 and 6 months after OCT)**
 - **1 TVR (9 months after OCT)**
(mean follow up: 9 months)
- **Group with thrombus**
 - **all patients were continue to take DAT**
 - **No MACE**

Summary

- **OCT can demonstrate small thrombus within stents late after DES implantation.**
- **The Incidence of intracoronary thrombus was somewhat different depending on the types of DESs.**
- **Clinical implication of intracoronary thrombus in OCT is needed to be validated with large database.**
- **However, the presence of intracoronary thrombus may not be associated with adverse cardiac events under the conditions of continuous dual antiplatelet therapy.**