



# Cornaris™ P80-E

Multimodality Intravascular Imaging System



reddot winner 2021

*Multimodality*   
*Makes Reality* 

Vivolight Official Partner **MEDITRANS** 

# Innovative Features for Clinical Needs



## Full View Mode

Complete an ultra-long pullback of **80mm** within **2 seconds**



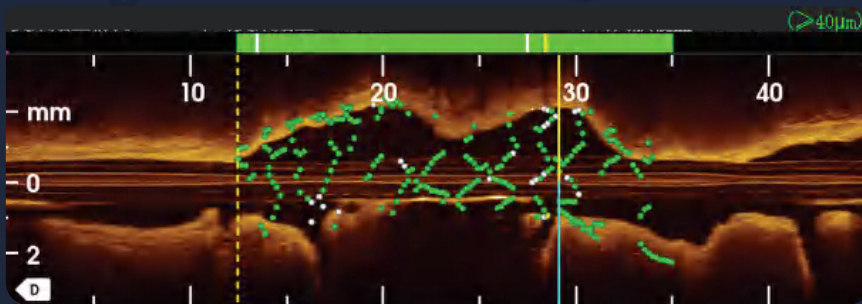
## High Definition Mode

Complete an ultra HD scan of **55mm** within **2.75 seconds**



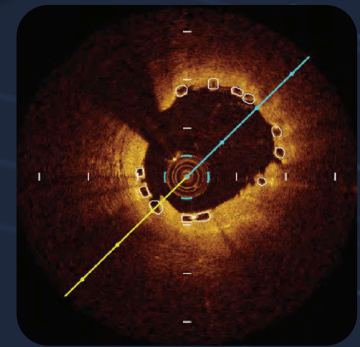
## Super Fast Mode

Complete a super fast pullback length of **40mm** in **1 second**



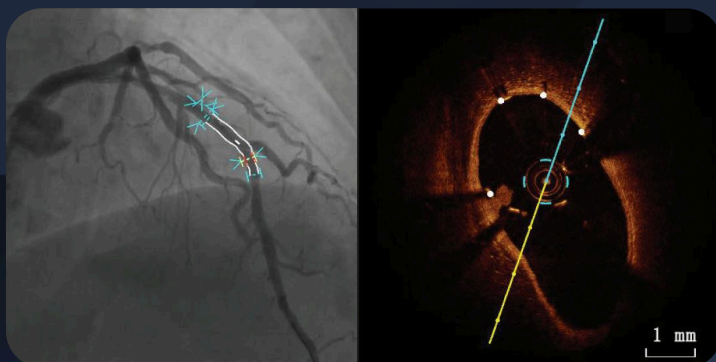
## Auto Calculation of Neointimal Coverage

Penilaian otomatis terhadap neointimal coverage post-PCI untuk memberikan panduan DAPT (dual anti-platelet therapy).



## Intelligent Evaluation of BRS

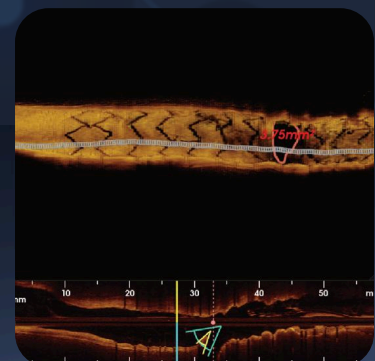
Memberikan evaluasi otomatis untuk stent bioresorbable (BRS) setelah implantasi.



## ACR

### (Angiographic co-registration)

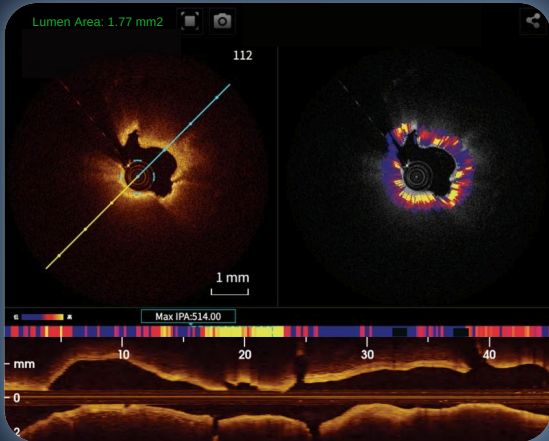
Mempercepat pembelajaran OCT, mengurangi waktu prosedur & volume kontras.



## Auto Quantitative Assessment for Bifurcation Lesions

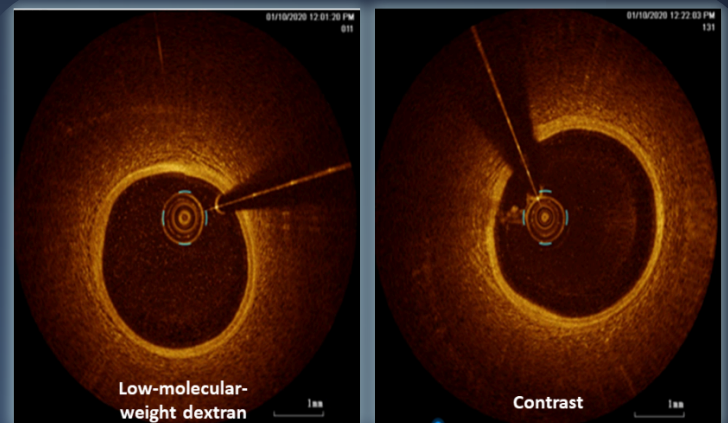
Memprediksi risiko oklusi cabang samping, dan mengadopsi strategi optimal untuk lesi bifurkasi.

# Multimodality Technology



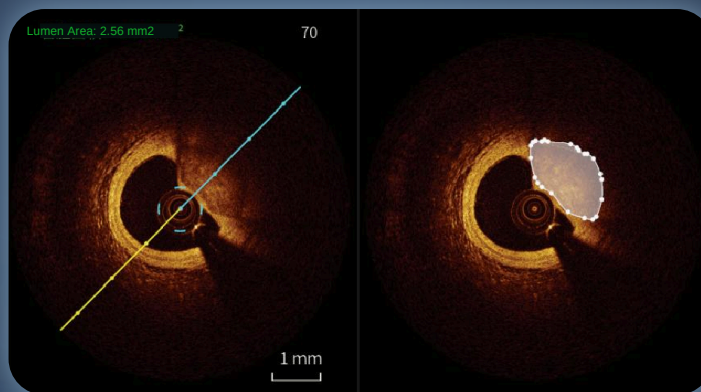
## Index of Plaque Attenuation (IPA)

Penilaian Otomatis Stabilitas Plak untuk Strategi PCI Setelah Satu Pullback, Efisien dalam Biaya dan Waktu.



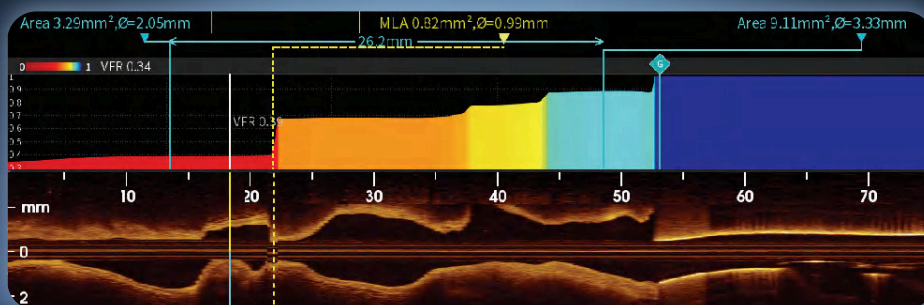
## Zero Contrast

Kompatibel dengan dekstran *low-molecular-weight* sebagai media pencucian untuk mengurangi kerusakan ginjal.



## Intelligent Calcium Assessment (ICA)

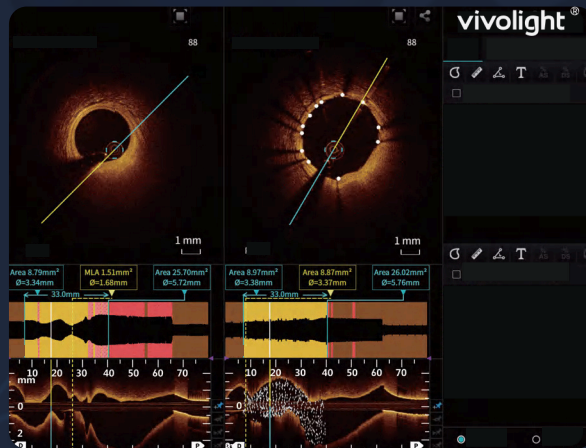
Identifikasi dan perhitungan otomatis volume dan keparahan kalsium dengan AI, menyederhanakan pengobatan lesi terkalifikasi dengan cara yang lebih mudah dan cepat.



## Virtual Flow Ratio (VFR)

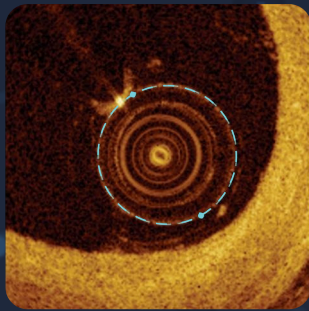
Penilaian Fungsional untuk Arteri Koroner, tanpa biaya dan waktu tambahan

# First-in Class of OCT Solutions



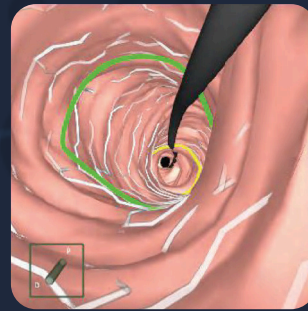
## Pre & Post PCI Image Comparison

Menampilkan dan membandingkan gambar sebelum dan sesudah PCI di layar yang sama untuk mempermudah pembacaan dan menghemat waktu.



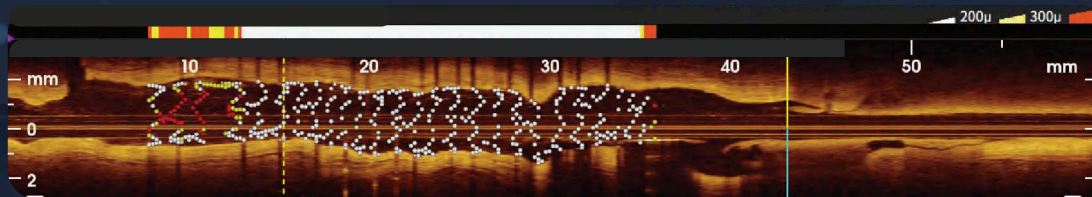
## Continuous Calibration

Kalibrasi otomatis setiap frame setelah pullback menghemat waktu prosedur dan meningkatkan akurasi pengukuran.



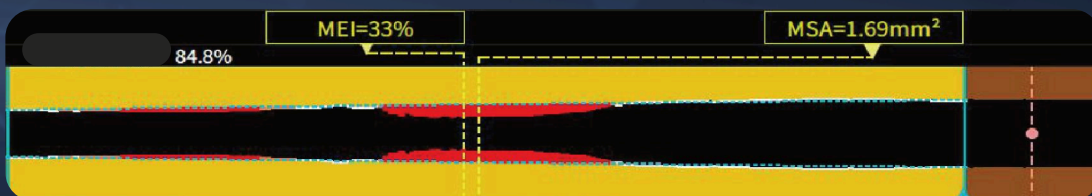
## 3D View

Visualisasi lumen vaskular secara menyeluruh dengan detail dari perspektif 3D.



## Auto Assessment of Stent Apposition

Dengan visualisasi stent, secara otomatis menghitung tingkat apposition stent per frame dan memberikan rata-rata tingkat apposition untuk seluruh stent

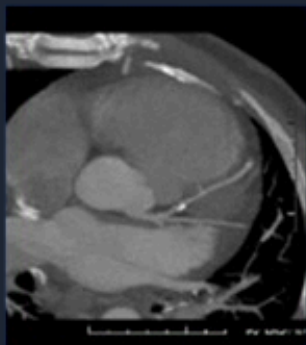


## Auto Assessment of Stent Expansion

Fitur penyempitan pembuluh dan perubahan diameter di samping cabang samping dimasukkan sebagai faktor untuk mendapatkan indeks ekspansi stent yang lebih akurat

# Advantages of OCT vs. Conventional Imaging

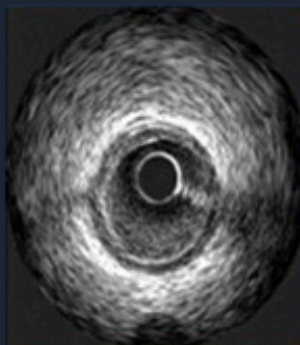
CT



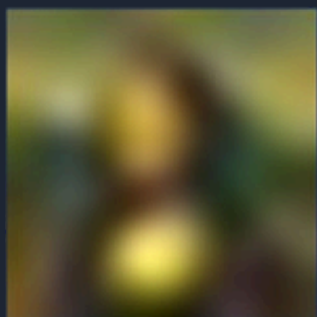
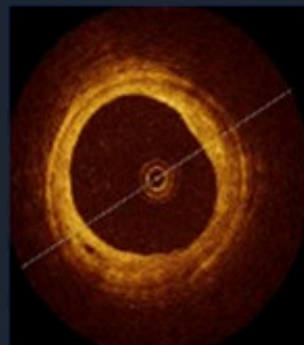
CAG



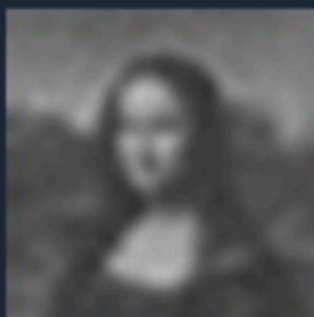
IVUS



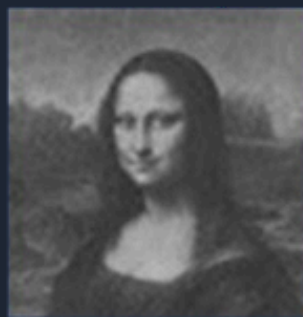
OCT



600  $\mu\text{m}$



200  $\mu\text{m}$   
Stenosis Lumen

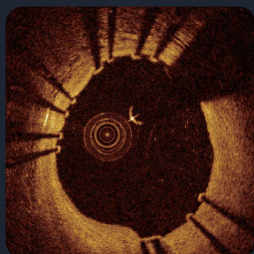


100  $\mu\text{m}$   
Morfologi &  
Struktur Plak

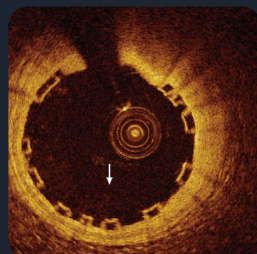


10  $\mu\text{m}$   
Detail  
MikroStruktur

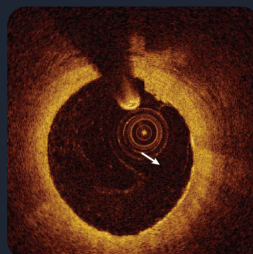
## OCT Images



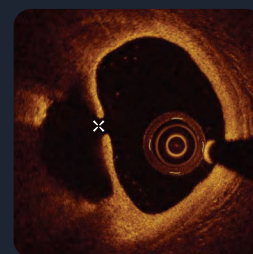
DES



BSR



DCB Polymer



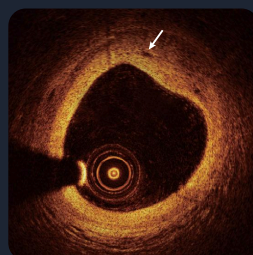
Plaque Rupture



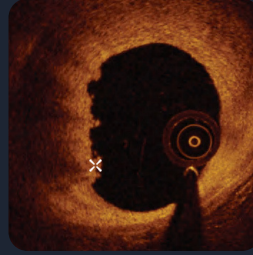
Dissection



Woven Blood Vessel



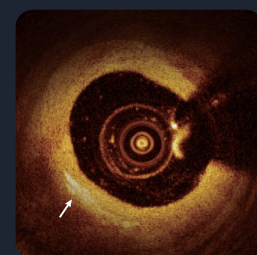
Micro Channels



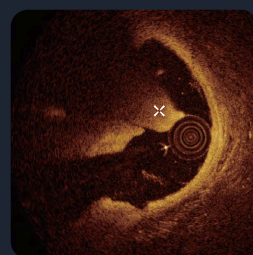
Plaque Erosion



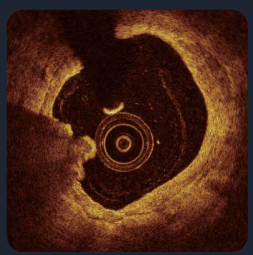
Macrophage Infiltration



Cholesterol Crystals



Red Thrombosis



Calcified Nodule

# TOP Experts in Cooperation with Vivolight



**Prof. G. Tearney**

- Director, Wellman Center for Photomedicine
- Mass. General Hospital & Harvard Medical School



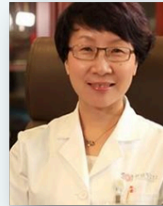
**Prof. Junbo Ge 葛均波**

- Academician of CAS
- Dean of the Institute of Biomedical Sciences, Fudan University



**Prof. G. vanSoest**

- Professor, Thorax Center Erasmus University Medical Center Rotterdam



**Prof. Yundai Chen 陈韵岱**

- Director, Department of Cardiovascular, Chinese PLA General Hospital



**Prof. Wei Zhao 赵卫**

- President of CAS Xi'an&Shaanxi Academy of Sciences



**Prof. JuyingQian 钱菊英**

- Vice President, Zhongshan Hospital

## Specifications vivolight®

Resolution (um)	< 15	Pullback Speed (mm/s)	20/40
Frame Rate (f/s)	200	Scan Range (mm)	10
Pullback Range (mm)	40/55/80	Hard Drive Capacity (TB)	2

Vivolight Official Partner **MEDITRANS** 



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