

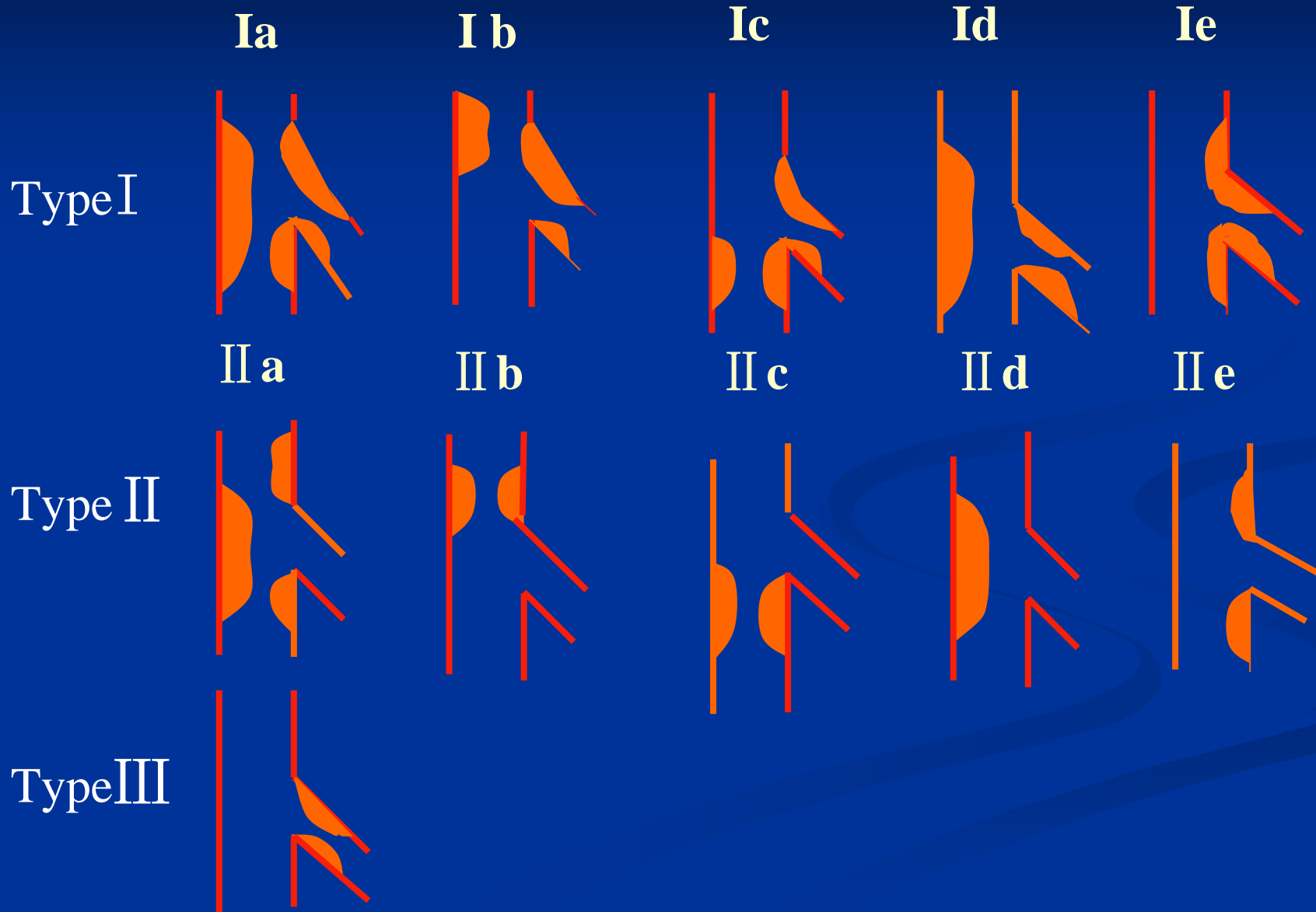
Compression of the Ostia of the Side-branch Coronary Arteries by Different Types of Main- branch Plaques

Jilin Chen

Cardiovascular Institute & Fuwai Hospital

Chinese Academy of Medical Sciences

Chen's classification for bifurcation lesions



Frequency for subtypes of bifurcation lesions (n=300)

Subtypes	a	b	c	d	e	Total
I (%)	31.3	9.0	17.7	4.7	1.3	63.8
II (%)	8.3	6.3	11.3	4.0	0.7	30.5
III (%)	5.7					5.7

Objectives

To explore the best route and treatment

Strategy for bifurcation lesions in

coronary heart disease patients

135 patients with type II bifur.L who received a single DES in main vessel (MV) were selected in this study.

Including:

LAD/Diag.bifurcation lesions in 86 cases

LM distal bifurcations lesions in 49 cases

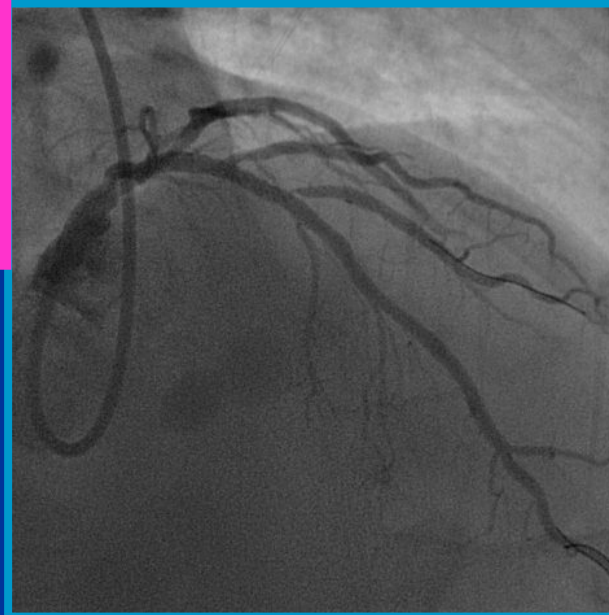
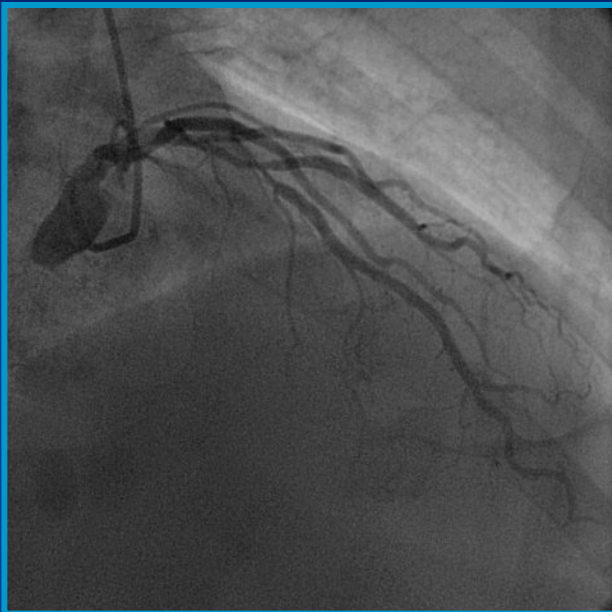
Compression of the side-branch ostium after placement of the main-branch stent in type II bifurcation lesions

%	a	b	c	d
Number of cases	42	22	58	12
MV stenosis before stenting	85.48 ± 5.54	85.45 ± 7.52	84.64 ± 7.73	84.58 ± 7.20
Increased stenosis of the SB ostium after stenting in MV	48.74 ± 20.50	36.36 ± 18.71	40.55 ± 19.63	24.00 ± 11.56

Note: The differences between the groups were significant ($P < 0.001$)

The incidence of acute occlusion in side branch is 1.5%

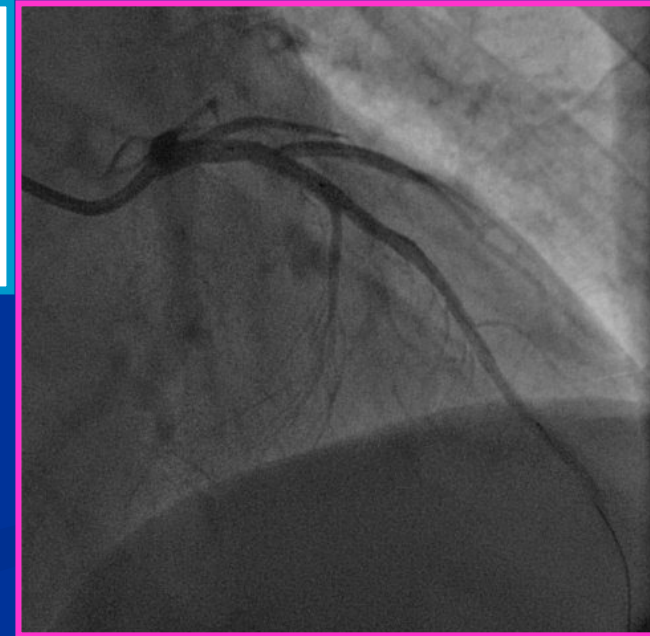
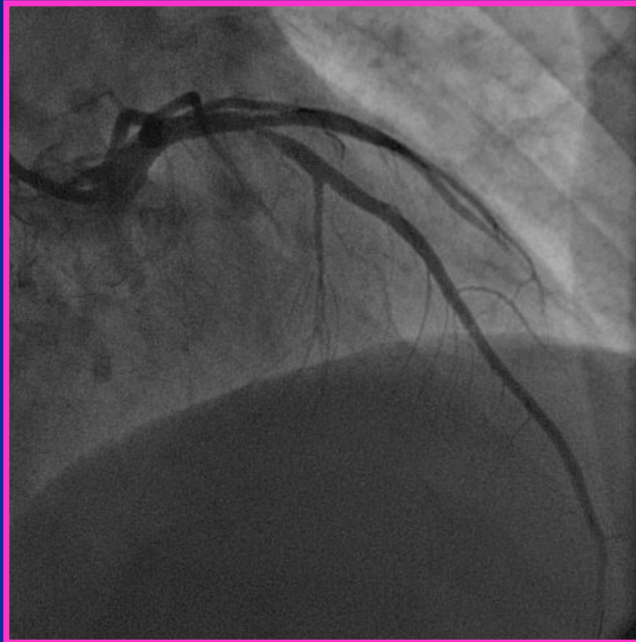
Compression of the Ostia SB in Type II a lesions



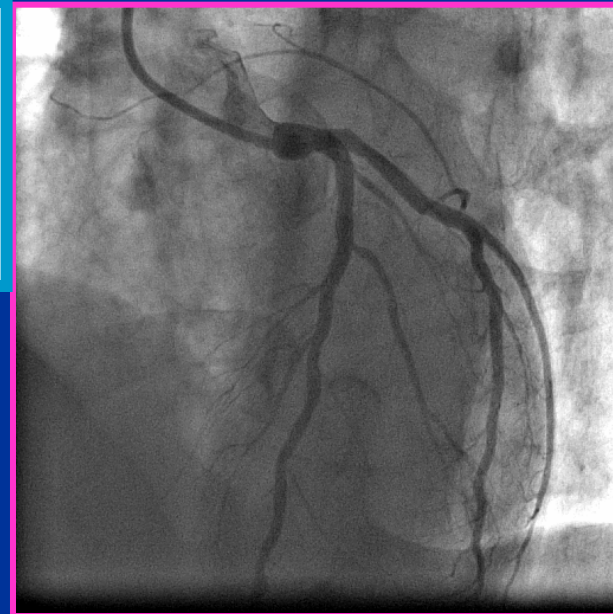
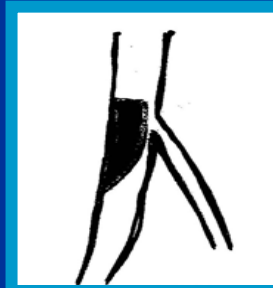
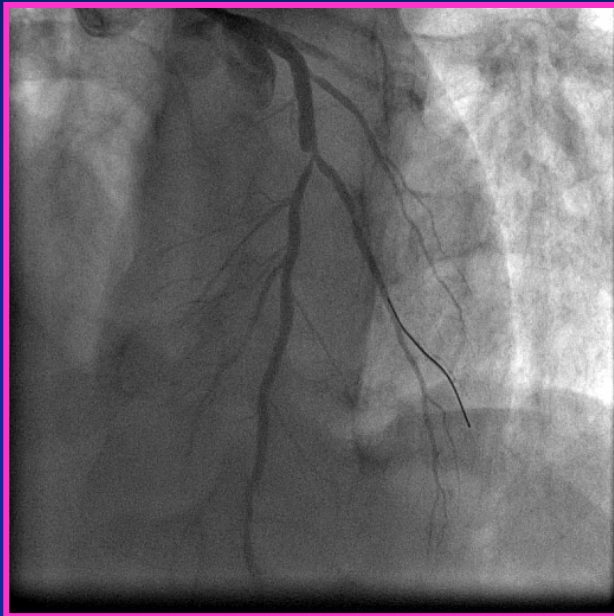
Compression of the Ostia SB in Type II b lesions



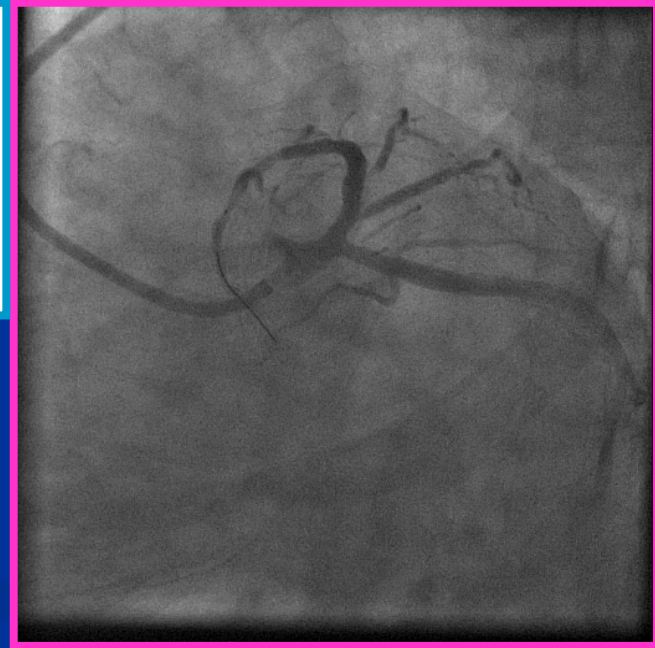
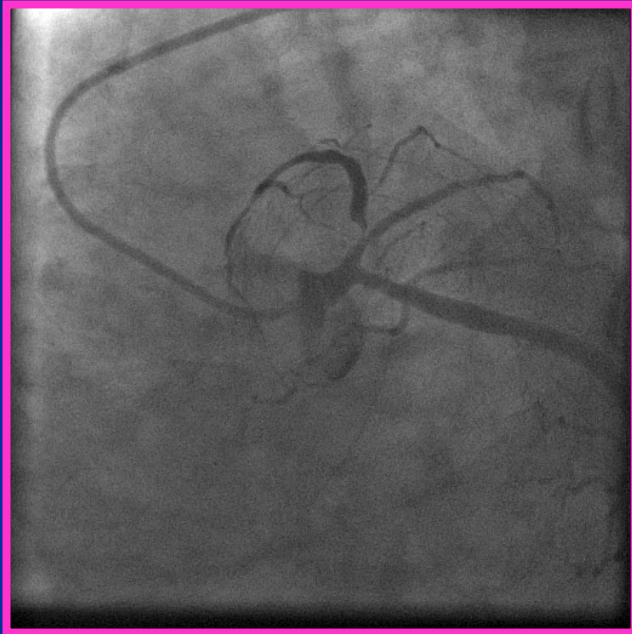
Compression of the Ostia SB in Type II c lesion



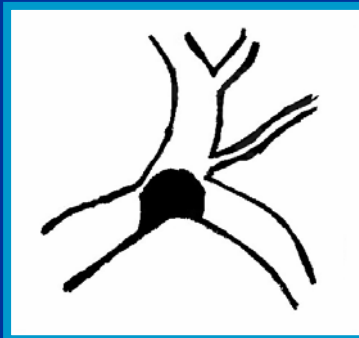
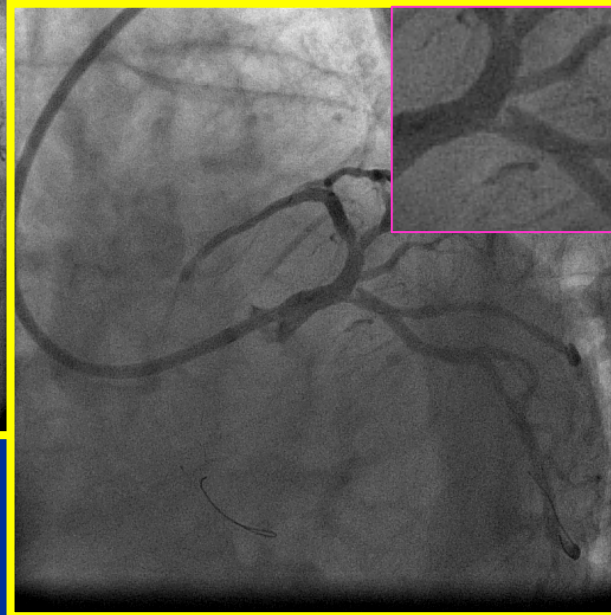
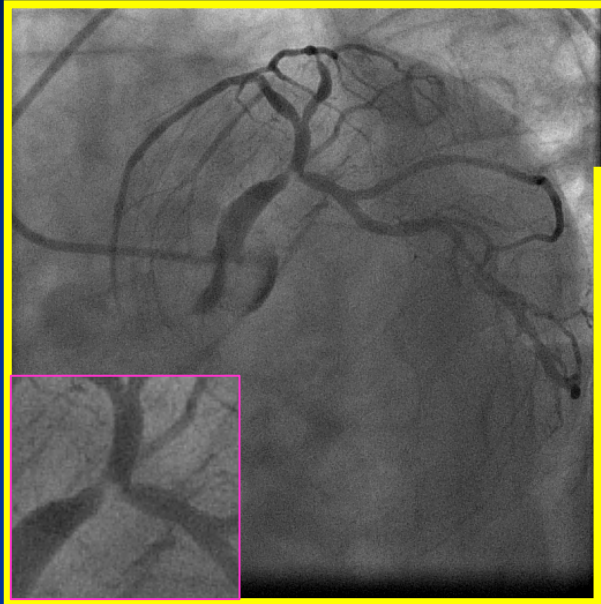
Compression of the Ostia SB in Type II d lesions



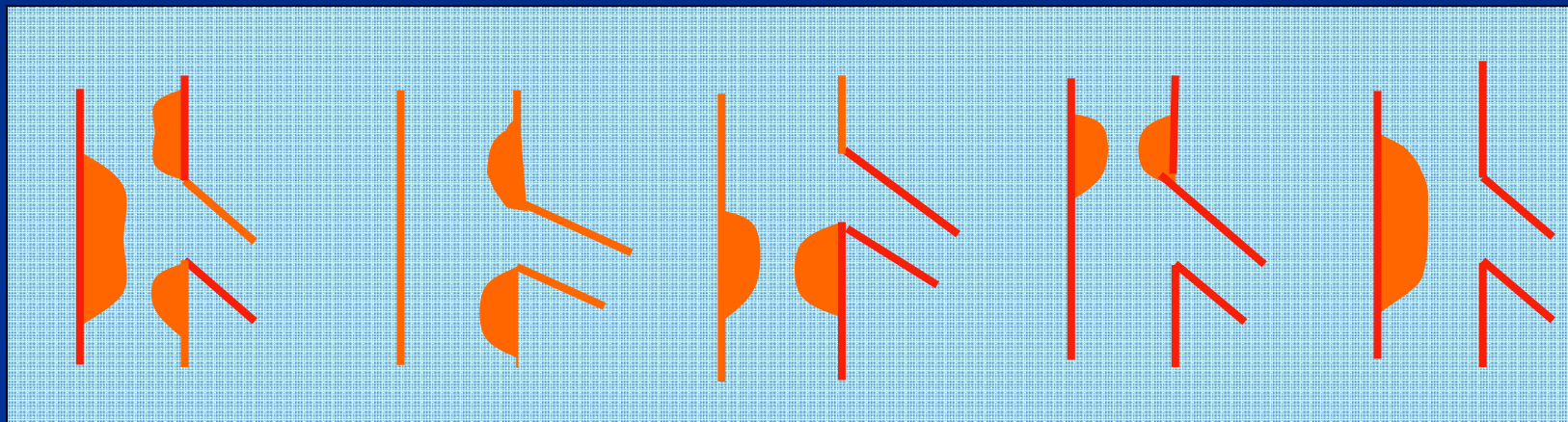
Compression of the Ostia SB in Type II d lesions



Compression of the Ostia SB Type Ie



IIa > IIe > IIc > IIb > IIId



48.74 ± 20.50

47.00 ± 0.00

40.55 ± 19.63

36.36 ± 18.71

24.00 ± 11.56

Two key points about treatment strategy for bifur. L

1. Ostium of side branch is severe stenosis ($\geq 50\%$)
or not?
2. Diam. Of side branch is $\geq 2.5\text{mm}$ or $< 2.5\text{mm}$

Bifur.L

Type I

Type II

$\geq 2.5\text{mm}$,
S.B. stenosis
 $\geq 70\%$

$\geq 2.5\text{mm}$
S.B. stenosis $< 70\%$

$< 2.5\text{mm}$

M. V DES
S. B DES
(15—20%)

M. V DES
S. B PTCA
Provisional
stenting

M. V DES
S.B leave alone
S. B. $< \text{TIMI III}$
PTCA

M. V DES
S.B leave alone
S. B. $> 70\%$ PTCA

