

2015 ESC Guidelines for the management of infective endocarditis "Surgical Indications"



Cardiothoracic and Vascular Surgery Department Hôpital Louis Pradel LYON - France

OBADIA Jean-François

Paris – 2015 November 22st

RECO

Case1

Case2

Höpitoux de Lyon

Guidelines on Prevention, Diagnosis and Treatment of Infective Endocarditis Full Text

2004

European Heart Journal

European Heart Journal

European Heart Journal

The Task Force on Infective Endocarditis of the European Society of Cardiology 37p 390 ref

Task Force Members, Dieter Horstkotte, (Chairperson)* (Germany), Ferenc Follath (Switzerland), Erno Gutschik (Denmark), Maria Lengyel (Hungary), Ali Oto (Turkey), Alain Pavie (France), Jordi Soler-Soler (Spain), Gaetano Thiene (Italy), Alexander von Graevenitz (Switzerland)

Guidelines on the prevention, diagnosis, and treatment of infective endocarditis (new version 2009) 2009

The Task Force on the Prevention, Diagnosis, and Treatment of Infective Endocarditis of the European Society of Cardiology (ESC)

Endorsed by the European Society of Clinical Microbiology and Infectious Diseases (ESCMID) and by the International Society of Chemotherapy (ISC) for Infection and Cancer

Authors/Task Force Members: Gilbert Habib (Chairperson) (France)*, Bruno Hoen (France), Pilar Tornos (Spa Franck Thuny (France), Bernard Prendergast (UK), Isidre Vilacosta (Spain), Philippe Moreillon (Switzerland)

2015 ESC Guidelines for the management of infective endocarditis 2015

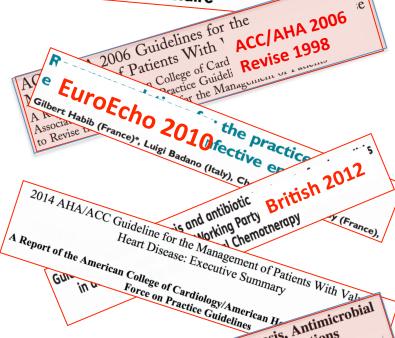
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Recommandations de la Société française de cardiolog SFC 2005 t la prise en charge des vuivuopamies acquises et des dysfonctions de prothèse valvúlaire

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Force on Practice Guidelines

A Scientific Statement for Healthcare Profession Heart Acconition

Infective Endocarditis in Adults: Diagnosis, Antimicrobial

Endorsed by the Infectious Diseases Society -

Therapy, and Management of Complications

54p 483 ref

Conclusion



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Case1

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 Table 11
 Complications where surgery should be considered during active NVE

- Acute aortic or mitral regurgitation and CHF
- Evidence of perivalvular extension (locally uncontrolled infection)
- Persistent infection after 7–10 days of adequate antibiotic therapy
- Infection due to microorganisms with a poor response to antibiotic treatment (fungi, *Brucella spp.*, *Coxiella spp.*, *Staphylococcus lugdunensis*, enterococcus ssp. with high-level resistance to gentamicin, gram-negative organisms)
- Mobile vegetation >10 mm size before or during the first week of antibiotic treatment
- Recurrent emboli despite appropriate antibiotic therapy
- Obstructive vegetations

2004





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Table 12Complications where surgery should be considered during active PVE

- Early PVE
- Haemodynamically significant prosthetic valve malfunction
- Evidence of perivalvular extension
- Persistent infection after 7–10 days of adequate antibiotic therapy
- Recurrent emboli despite appropriate antibiotic therapy
- Infections due to microorganisms with a poor response to antibiotic treatment
- Obstructive vegetations

Conclusion

RECO

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2009

Emergency < 24h Urgent < 7j Elective *hospit*



Table 19 Indications and timing of surgery in left-sided native valve infective endocarditis





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Table 23 Indications and timing of surgery in prosthetic valve infective endocarditis (PVE)

Case1	Recommendations: Indications for surgery	Timing*	Class ^a	Level ^b
	A - HEART FAILURE			
	Aortic or mitral IE with severe acute regurgitation or valve obstruction causing refractory pulmonary oedema or cardiogenic shock	Emergency	I	В
	Aortic or mitral IE with fistula into a cardiac chamber or pericardium causing refractory pulmonary oedema or shock	Emergency	I.	В
	Aortic or mitral IE with severe acute regurgitation or valve obstruction and persisting heart failure or echocardiographic signs of poor haemodynamic tolerance (early mitral closure or pulmonary hypertension)	Urgent	1	В
	Aortic or mitral IE with severe regurgitation and no HF	Elective	lla	В
Case2	B - UNCONTROLLED INFECTION			
	Locally uncontrolled infection (abscess, false aneurysm, fistula, enlarging vegetation)	Urgent	1	В
	Persisting fever and positive blood cultures > 7–10 days	Urgent	I.	В
	Infection caused by fungi or multiresistant organisms	Urgent/elective	I	В
	C - PREVENTION OF EMBOLISM			
	Aortic or mitral IE with large vegetations (> 10 mm) following one or more embolic episodes despite appropriate antibiotic therapy	Urgent	1	В
	Aortic or mitral IE with large vegetations (> 10 mm) and other predictors of complicated course (heart failure, persistent infection, abscess)	Urgent	I.	с
Conclusion	Isolated very large vegetations (> 15 mm) [#]	Urgent	llb	С

Indications for surgery in PVE	Timing*	Class ^a	Level ^b
A - HEART FAILURE			
PVE with severe prosthetic dysfunction (dehiscence or obstruction) causing refractory pulmonary oedema or cardiogenic shock	Emergency	I	В
\ensuremath{PVE} with fistula into a cardiac chamber or pericardium causing refractory pulmonary oedema or shock	Emergency	I	В
PVE with severe prosthetic dysfunction and persisting heart failure	Urgent	1	В
Severe prosthetic dehiscence without HF	Elective	1	В
B - UNCONTROLLED INFECTION			
Locally uncontrolled infection (abscess, false aneurysm, fistula, enlarging vegetation)	Urgent	1	В
PVE caused by fungi or multiresistant organisms	Urgent/elective	1	В
PVE with persisting fever and positive blood cultures $> 7-10$ days	Urgent	1	В
PVE caused by staphylococci or gram negative bacteria (most cases of early PVE)	Urgent/elective	lla	С
C - PREVENTION OF EMBOLISM			
PVE with recurrent emboli despite appropriate antibiotic treatment	Urgent	1	В
PVE with large vegetations (> 10 mm) and other predictors of complicated course (heart failure, persistent infection, abscess)	Urgent	T	С
PVE with isolated very large vegetations (> 15 mm)	Urgent	llb	с

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Table 22Indications and timing of surgery in Iprosthetic valve endocarditis)2015

lve infective endocarditis (native valve endocarditis and

Indications for surgery	Timing ^a	Class ^b	Level ^c	Ref. ^d
1. Heart failure				
Aortic or mitral NVE or PVE with severe acute regurgitation, obstruction or fistula causing refractory pulmonary oedema or cardiogenic shock	Emergency	I	в	111,115, 213,216
Aortic or mitral NVE or PVE with severe regurgitation or obstruction causing symptoms of HF or echocardiographic signs of poor haemodynamic tolerance	Urgent	I.	в	37,115, 209,216, 220,221
2. Uncontrolled infection				
Locally uncontrolled infection (abscess, false aneurysm, fistula, enlarging vegetation)	Urgent		в	37,209, 216
Infection caused by fungi or multiresistant organisms	Urgent/ elective	1	с	
Persisting positive blood cultures despite appropriate antibiotic therapy and adequate control of septic metastatic foci	Urgent	lla	в	123
PVE caused by staphylococci or non-HACEK gram-negative bacteria	Urgent/ elective	lla	С	
3. Prevention of embolism				
Aortic or mitral NVE or PVE with persistent vegetations $>$ 10 mm after one or more embolic episode despite appropriate antibiotic therapy	Urgent	Т	в	9,58,72, 113,222
Aortic or mitral NVE with vegetations $>$ 10 mm, associated with severe valve stenosis or regurgitation, and low operative risk	Urgent	lla	в	9
Aortic or mitral NVE or PVE with isolated very large vegetations (>30 mm)	Urgent	lla	В	113
Aortic or mitral NVE or PVE with isolated large vegetations ($>$ 15 mm) and no other indication for surgery $^{ m e}$	Urgent	ПР	С	

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Case1

Case2

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Conclusion





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	1. Heart failure	2015					
	Aortic or mitral NVE or PVE with severe acute regurgitation, pulmonary oedema or cardiogenic shock	obstruction o	or fistula causing refractory	Emergency	Т	в	111,115, 213,216
Case1	Aortic or mitral NVE or PVE with severe regurgitation or of echocardiographic signs of poor haemodynamic tolerance	bstruction ca	using symptoms of HF or	Urgent	I	В	37,115, 209,216, 220,221

	Aortic or mitral IE with severe acute regurgitation or valve obstruction causing refractory pulmonary oedema or cardiogenic shock	Emergency	I	В	
	Aortic or mitral IE with fistula into a cardiac chamber or pericardium causing refractory pulmonary oedema or shock	Emergency	I	В	
Case2	Aortic or mitral IE with severe acute regurgitation or valve obstruction and persisting heart failure or echocardiographic signs of poor haemodynamic tolerance (early mitral closure or pulmonary hypertension)	Urgent	1	В	Native VE 2014
	Aortic or mitral IE with severe regurgitation and no HF	Elective	lla	В	
	PVE with severe prosthetic dysfunction (dehiscence or obstruction) causing refractory pulmonary oedema or cardiogenic shock	Emergency	I	В	
	PVE with fistula into a cardiac chamber or pericardium causing refractory pulmonary oedema or shock	Emergency	I	В	Prost.VE 2014
Conclusion	PVE with severe prosthetic dysfunction and persisting heart failure	Urgent	1	В	
	Severe prosthetic dehiscence without HF	Elective	1	В	6

INTRO

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2. Uncontrolled infection 2015			_		
Locally uncontrolled infection (abscess, false aneurysm, fistula, enlarging vegetation)	Urgent	т. Т	в	37,209, 216
Infection caused by fungi or multiresistant organisms		Urgent/ elective	1	с	
Persisting positive blood cultures despite appropriate antibiotic therapy and adequa septic metastatic foci	ate control o	of Urgent	lla	в	123
PVE caused by staphylococci or non-HACEK gram-negative bacteria		Urgent/ elective	lla	с	
Locally uncontrolled infection (abscess, false aneurysm, fistula, enlarging vegetation)		Urgent	1	В	
Persisting fever and positive blood cultures > 7–10 days		Urgent	I	Native	VE 201
Infection caused by fungi or multiresistant organisms	U	rgent/elective	I	В	
Locally uncontrolled infection (abscess, false aneurysm, fistula, enlarging vegetation)	Urgent	e T	В		
PVE caused by fungi or multiresistant organisms	Urgent/ele		B	Prost.	VE 2014

Conclusion

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PVE with persisting fever and positive blood cultures > 7-10 days

PVE caused by staphylococci or gram negative bacteria (most cases of early PVE)

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В

С

1

lla

Urgent

Urgent/elective





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	3. Prevention of embolism 2015						-
	Aortic or mitral NVE or PVE with persistent vegetations >10 mm after one or more energies despite appropriate antibiotic therapy	Urgent	•		в	9,58,72, 113,222	
Case1	Aortic or mitral NVE with vegetations >10 mm, associated with severe valve stenosis of regurgitation, and low operative risk	Urgent	: 	a	B	9	
Caser	Aortic or mitral NVE or PVE with isolated very large vegetations (>30 mm)		Urgent	: 11	a	B	113
	Aortic or mitral NVE or PVE with isolated large vegetations (>15 mm) and no other ind surgery ^e	Urgent		ь	с		
	Aortic or mitral IE with large vegetations (> 10 mm) following one or more embolic episodes despite appropriate antibiotic therapy	Urger	ht	I	В		
Case2	Aortic or mitral IE with large vegetations (> 10 mm) and other predictors of complicated course (heart failure, persistent infection, abscess)	Urger	nt	I	Nativ	ve V	E 2014
	Isolated very large vegetations (> 15 mm) [#]	Urger	nt	llb	с		
	PVE with recurrent emboli despite appropriate antibiotic treatment	Urger	nt	- I	В		
	PVE with large vegetations (> 10 mm) and other predictors of complicated course (heart failure, persistent infection, abscess)	Urger	nt	T	Prost	. VE	2014
Conclusion	PVE with isolated very large vegetations (> 15 mm)	Urger	nt	llb	с		8

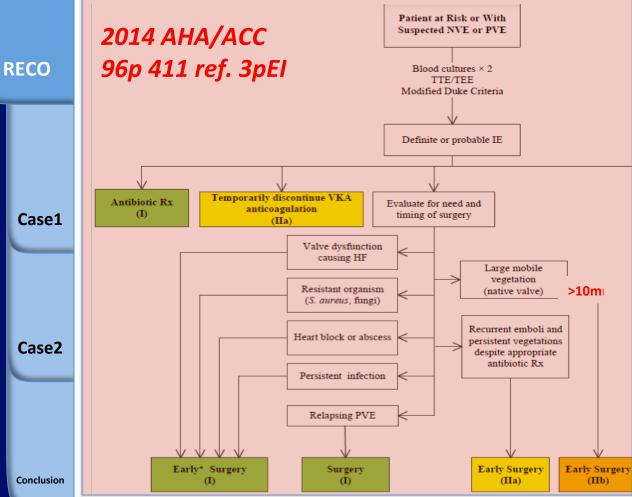
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2014 AHA/ACC Guideline for the Management of Patients With Valvular Heart Disease: Executive Summary



Infective Endocarditis in Adults: Diagnosis, Antimicrobial Therapy, and Management of Complications A Scientific Statement for Healthcare Professionals From the American Heart Association

Endorsed by the Infectious Diseases Society of America

Early Valve Surgery in Left-Sided NVE: Recommendations 2015 AHA/inf

- **1.** Early surgery (during initial hospitalization and before completion of a full course of antibiotics) is indicated in patients with IE who present with valve dysfunction resulting in symptoms or signs of heart failure (*Class I; Level of Evidence B*).
- 2. Early surgery should be considered particularly in patients with IE caused by fungi or highly resistant organisms (eg, vancomycin-resistant *Enterococcus*, multidrug-resistant Gram-negative bacilli) (*Class I; Level of Evidence B*).
- 3. Early surgery is indicated in patients with IE complicated by heart block, annular or aortic abscess, or destructive penetrating lesions (*Class I*; *Level of Evidence B*).
- 4. Early surgery is indicated for evidence of persistent infection (manifested by persistent bacteremia or fever lasting >5-7 days and provided that other sites of infection and fever have been excluded) after the start of appropriate antimicrobial therapy (*Class I; Level of Evidence B*).
- 5. Early surgery is reasonable in patients who present with recurrent emboli and persistent or enlarging vegetations despite appropriate antibiotic therapy (*Class IIa; Level of Evidence B*).
- 6. Early surgery is reasonable in patients with severe valve regurgitation and mobile vegetations >10 mm (*Class IIa, Level of Evidence B*).
- 7. Early surgery may be considered in patients with mobile vegetations >10 mm, particularly when involving the anterior leaflet of the mitral valve and associated with other relative indications for surgery (*Class IIb; Level of Evidence C*).

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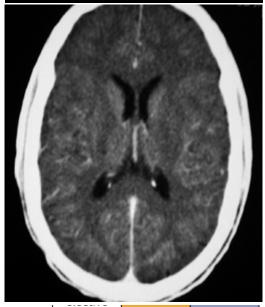


Homme 35 ans

- 1993 RVAo+RVM
- Décembre 2003
 - Syndrome grippal
- Janvier 2004
 - AIT
 - Végétations mit 12 mm
- Total Body Scan → RAS



Bilan Pré-opératoire



	3. Prevention of embolism				
Case2	Aortic or mitral NVE or PVE with persistent vegetations >10 mm after one or more embolic episode despite appropriate antibiotic therapy	Urgent	I	В	9,58,72, 113,222
	Aortic or mitral NVE with vegetations >10 mm, associated with severe valve stenosis or regurgitation, and low operative risk	Urgent	lla	В	9
	Aortic or mitral NVE or PVE with isolated very large vegetations (>30 mm)	Urgent	lla	В	113
Conclusion	Aortic or mitral NVE or PVE with isolated large vegetations (>15 mm) and no other indication for surgery ^e	Urgent	ШЬ	С	

Case1

RECO

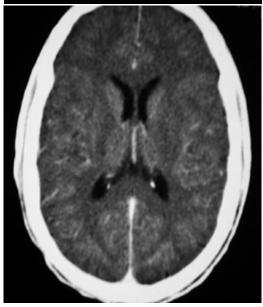


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• RVAo + RVM

Bilan Pré-opératoire



3. Prevention of embolism				
Aortic or mitral NVE or PVE with persistent vegetations >10 mm after one or more embolic episode despite appropriate antibiotic therapy	Urgent	I	В	9,58,72, 113,222
Aortic or mitral NVE with vegetations >10 mm, associated with severe valve stenosis or regurgitation, and low operative risk	Urgent	lla	В	9
Aortic or mitral NVE or PVE with isolated very large vegetations (>30 mm)	Urgent	lla	В	113
Aortic or mitral NVE or PVE with isolated large vegetations (>15 mm) and no other indication for surgery ^e	Urgent	ШЬ	С	

Case1

Ca

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– Homme 35 ans

- 1993 RVAo+RVM
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 - Syndrome grippal
- Janvier 2004
 - AIT
 - Végétations mit 12 mm
- Total Body Scan → RAS

• RVAo + RVM

J5 → AVC → Coma



3. Prevention of embolism				
Aortic or mitral NVE or PVE with persistent vegetations >10 mm after one or more embolic episode despite appropriate antibiotic therapy	Urgent	I	В	9,58,72, 113,222
Aortic or mitral NVE with vegetations >10 mm, associated with severe valve stenosis or regurgitation, and low operative risk	Urgent	lla	В	9
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Aortic or mitral NVE or PVE with isolated large vegetations (>15 mm) and no other indication for surgery ^e	Urgent	ШЬ	С	

Case1

Ca

Con

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Hôpitoux de Lyon

Surgery after cerebral embolic events 2004 After manifestation of a cerebral embolism, cardiac surgery to prevent a recurrent episode is not contraindicated if performed early (best within 72 h)^{207,300,315,316} and cerebral haemorrhage has been excluded by cranial computed tomography (CCT) immediately before the operation. Although surgical results are best with a first 72 h of stroke, when the blood bare based on class ^{IIa} first altered, ²⁰⁷ surgery showmendations are based on patients with focal deficit class B recommendations are best with for severe heart failure, ongoin These class B recommendations are based on severe heart failure, as longevist CT scans exclude a haemorrhagic lesion.³¹⁶

Case1 Table 2

Table 20 Management of neurological complications

2009

Recommendations: neurological complications	Class ^a	Level ^b
After a silent cerebral embolism or transient ischaemic attack, surgery is recommended without delay if an indication remains	I	В
Following intracranial haemorrhage, surgery must be postponed for at least one month	1	С
Neurosurgery or endovascular therapy are indicated for very large, enlarging, or ruptured intracranial aneurysm	1	С
After a stroke, surgery indicated for heart failure, uncontrolled infection, abscess, or persistent high embolic risk should not be delayed. Surgery should be considered as long as coma is absent and cerebral haemorrhage has been excluded by cranial CT	lla	В
Intracranial aneurysm should be looked for in any patient with IE and neurological symptoms - CT or MR angiography should be considered for diagnosis	lla	В
Conventional angiography should be considered when non-invasive techniques are negative and the suspicion of intracranial aneurysm remains	lla	В

Table 23Management of neurologicalcomplications of infective endocarditis

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2015

Recommendations	Class ^a	Level ^b	Ref. ^c
After a silent embolism or transient ischaemic attack, cardiac surgery, if indicated, is recommended without delay	I	В	105, 263
Neurosurgery or endovascular therapy is recommended for very large, enlarging or ruptured intracranial infectious aneurysms	I	с	
Following intracranial haemorrhage, surgery should generally be postponed for ≥ 1 month	lla	в	264–266
After a stroke, surgery indicated for HF, uncontrolled infection, abscess, or persistent high embolic risk should be considered without any delay as long as coma is absent and the presence of cerebral haemorrhage has been excluded by cranial CT or MRI	lla	В	9,263
Intracranial infectious aneurysms should be looked for in patients with IE and neurological symptoms. CT or MR angiography should be considered for diagnosis. If non-invasive techniques are negative and the suspicion of intracranial aneurysm remains, conventional angiography should be considered	lla	B	267, 268

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Conclusion

Case2

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Homme 48 ans

1991 El mitrale à Strepto

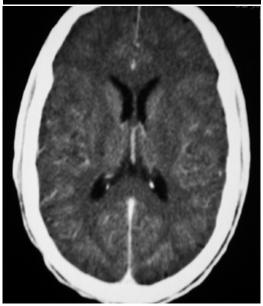
RECO

Juillet 2009 → fébrile

4 Aout 2009 → Aphasie Transit

- El à strepto mitis, IM modérée,
- Végét < 10mm</p>
- Clamoxyl+Genta.

Scanner normal



3. Prevention of embolism				
Aortic or mitral NVE or PVE with persistent vegetations >10 mm after one or more embolic episode despite appropriate antibiotic therapy	Urgent	I	В	9,58,72 113,222
Aortic or mitral NVE with vegetations >10 mm, associated with severe valve stenosis or regurgitation, and low operative risk	Urgent	lla	В	9
Aortic or mitral NVE or PVE with isolated very large vegetations (>30 mm)	Urgent	lla	В	113
Aortic or mitral NVE or PVE with isolated large vegetations (>15 mm) and no other indication for surgery ^e	Urgent	ШЬ	С	

Case1

Cas

Cone



Homme 48 ans

1991 El mitrale à Strepto

RECO

Case1

Juillet 2009 → fébrile

4 Aout 2009 → Aphasie Transit

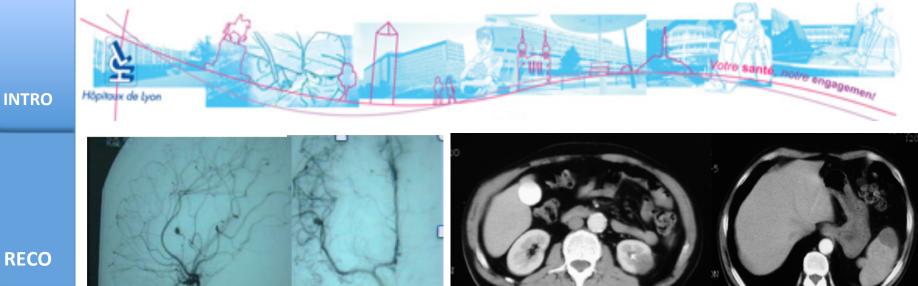
- El à strepto mitis, IM modérée,
- Végét < 10mm</p>
- Clamoxyl+Genta.

8 Août **>** Récidive Troubles phasiques

Scanner normal



Case2	3. Prevention of embolism				
	Aortic or mitral NVE or PVE with persistent vegetations >10 mm after one or more embolic episode despite appropriate antibiotic therapy	Urgent	I.	В	9,58,72, 113,222
	Aortic or mitral NVE with vegetations >10 mm, associated with severe valve stenosis or regurgitation, and low operative risk	Urgent	lla	B	9
	Aortic or mitral NVE or PVE with isolated very large vegetations (>30 mm)	Urgent	lla	В	113
Conclusion	Aortic or mitral NVE or PVE with isolated large vegetations (>15 mm) and no other indication for surgery ^e	Urgent	ШЬ	С	
					L



RECO

Case1

Case2

Contre-indic Risque d'aphasie Refus neurochir

- **Indication Cardiaque**
 - Embolies récidivantes
 - Végétations +
 - Fièvre sous ttt

Conclusion

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Hôpitoux de Lyon

Surgery after cerebral embolic events **2004** After manifestation of a cerebral embolism, cardiac surgery to prevent a recurrent episode is not contraindicated if performed early (best within 72 h)^{207,300,315,316} and cerebral haemorrhage has been excluded by cranial computed tomography (CCT) immediately before the operation. Although surgical results are best with class ^{1/a} first 72 h of stroke, when the blood bare based on class ^{1/a} first altered, ²⁰⁷ surgery showmendations are based on root yet altered, ²⁰⁷ surgery showmendations are based on patients with focal deficite class B recommendations are based on severe heart failure, ongoi These class B recommendations are based on severe heart failure, ongoi These class B recommendations are based on severe heart failure, ongoi These class B recommendations are based on severe heart failure, ongoi These class B recommendations are based on severe heart failure, ongoi These class B recommendations are based on severe heart failure, ongoi These based on severe heart failure, as longevidence.

Case1

Case2

Table 20 Management of neurological complications

2009

Recommendations: neurological complications	Class ^a	Level⁵
After a silent cerebral embolism or transient ischaemic attack, surgery is recommended without delay if an indication remains	I	В
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After a stroke, surgery indicated for heart failure, uncontrolled infection, abscess, or persistent high embolic risk should not be delayed. Surgery should be considered as long as coma is absent and cerebral haemorrhage has been excluded by cranial CT	lla	В
Intracranial aneurysm should be looked for in any patient with IE and neurological symptoms - CT or MR angiography should be considered for diagnosis	lla	В
Conventional angiography should be considered when non-invasive techniques are negative and the suspicion of intracranial aneurysm remains	lla	В

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2015

Recommendations	Class ^a	Level ^b	Ref. ^c
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Conclusion

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1/

"Surgical techniques and prostheses choice..."

Questionable risk score -> Heart team

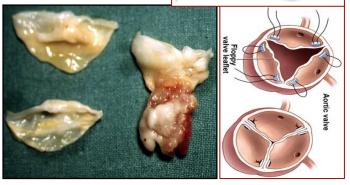
Cancer Treatment

- 1) Chemotherapy / ATB
- 2) Resect of all the infected tissue
- 3) Reconstruction (substitute ?)

+++ REPAIR +++

MVR = 26%

AoVR ≈ ξ %



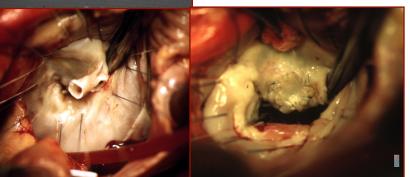
Surg?

Case1

INTRO

RECO

Höpitaux de Lyon



CGL NON

Conclusion

OBADIA Jean-François

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itro santo, notro engageme

Aortio

Repaired valve



"Surgical techniques and prostheses choice ... "

No single operative risk score is perfect \rightarrow clinical evaluation by a heart team



Cancer Treatment

- 1) Chemotherapy
- 2) Resect of all the infected tissue
- 3) Reconstruction

There is no perfect valve substitute



<u>AHA</u> 60/70









Mechanical and biological prostheses have similar operative mortality. Therefore the Task Force does not favour any specific valve substitute but recommends a tailored approach for each individual patient.

OBADIA Jean-François

Conclusion

RECO

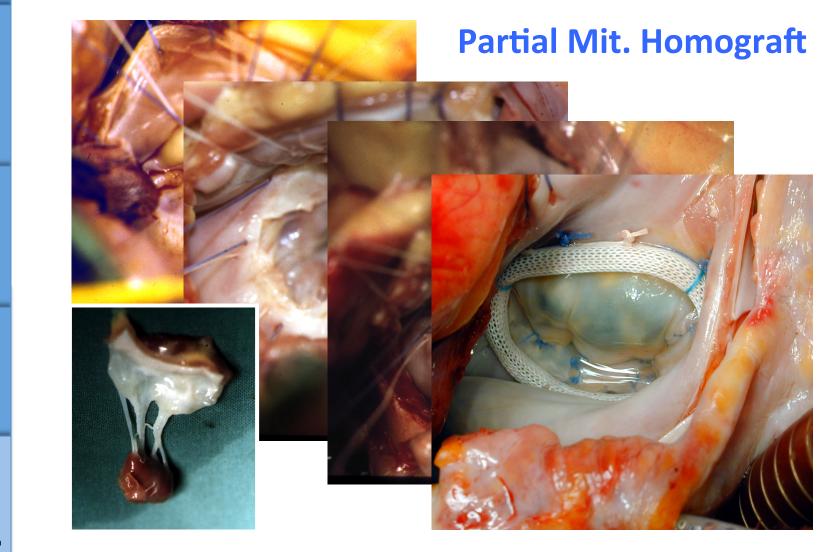
Case1

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RECO

Case1

Case2

Conclusion



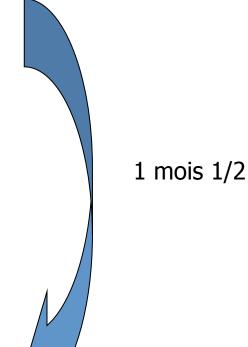
Suites avec Fièvre intermittente



- Modification antibiotique
- Soins dentaires
- Surveillance Anévrysme



• Indication Neurochirurgie



Conclusion

RECO

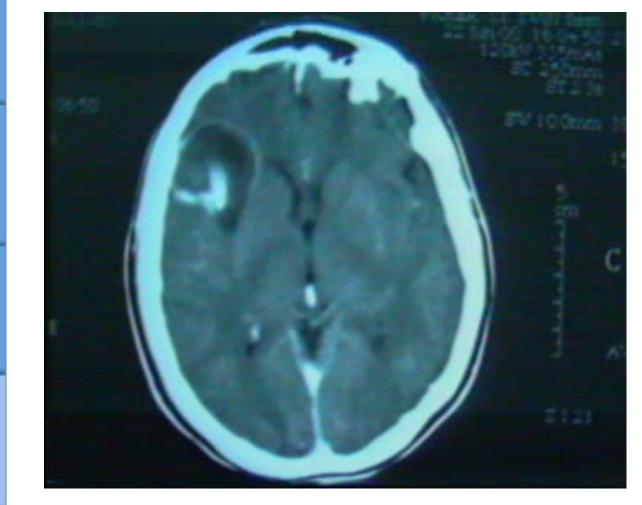
Case1

Case2

OBADIA Jean-François



Indication Neuro-chirurgicale



Suites Favorables Dysphasie modérée Suivi à 4 ans sans IM

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Conclusion

RECO

Case1

Case2

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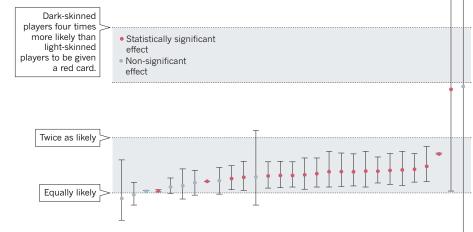
Hópitoux de Lyon

"Many handsmake tight work : Crowdsourcing research can balance discussions, validate findings and better inform policy, Raphael Silberzahn and Eric L. Uhlmann. 2015 Nature"



ONE DATA SET, MANY ANALYSTS

Twenty-nine research teams reached a wide variety of conclusions using different methods on the same data set to answer the same question (about football players' skin colour and red cards).





Point estimates and 95% confidence intervals. *Truncated upper bounds.

RECO

INTRO

Case1

Case2

Conclusion OBADIA Jean-François

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Hôpitoux de Lyon

Regular meetings at a precise time (Weekly basis) Pre-program announcing the files to discus a minimum of ast 3 different specialties Several members / Specialties Involving Coordinator/nurse Written decisions recorded Yearly evaluation

RECO

Case1

Case2

Conclusion

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