

榊原記念病院における外科研修制度



榊原記念病院 高橋幸宏

Sakakibara Heart Institute



2007年 総手術数 1577例

成人班 1005 例

心臓大血管 722例 腹部血管 85例
末梢血管 112例 その他 86例

Staff 5人
Resident 11人
(Chief Re. 2人)

小児班 572 例

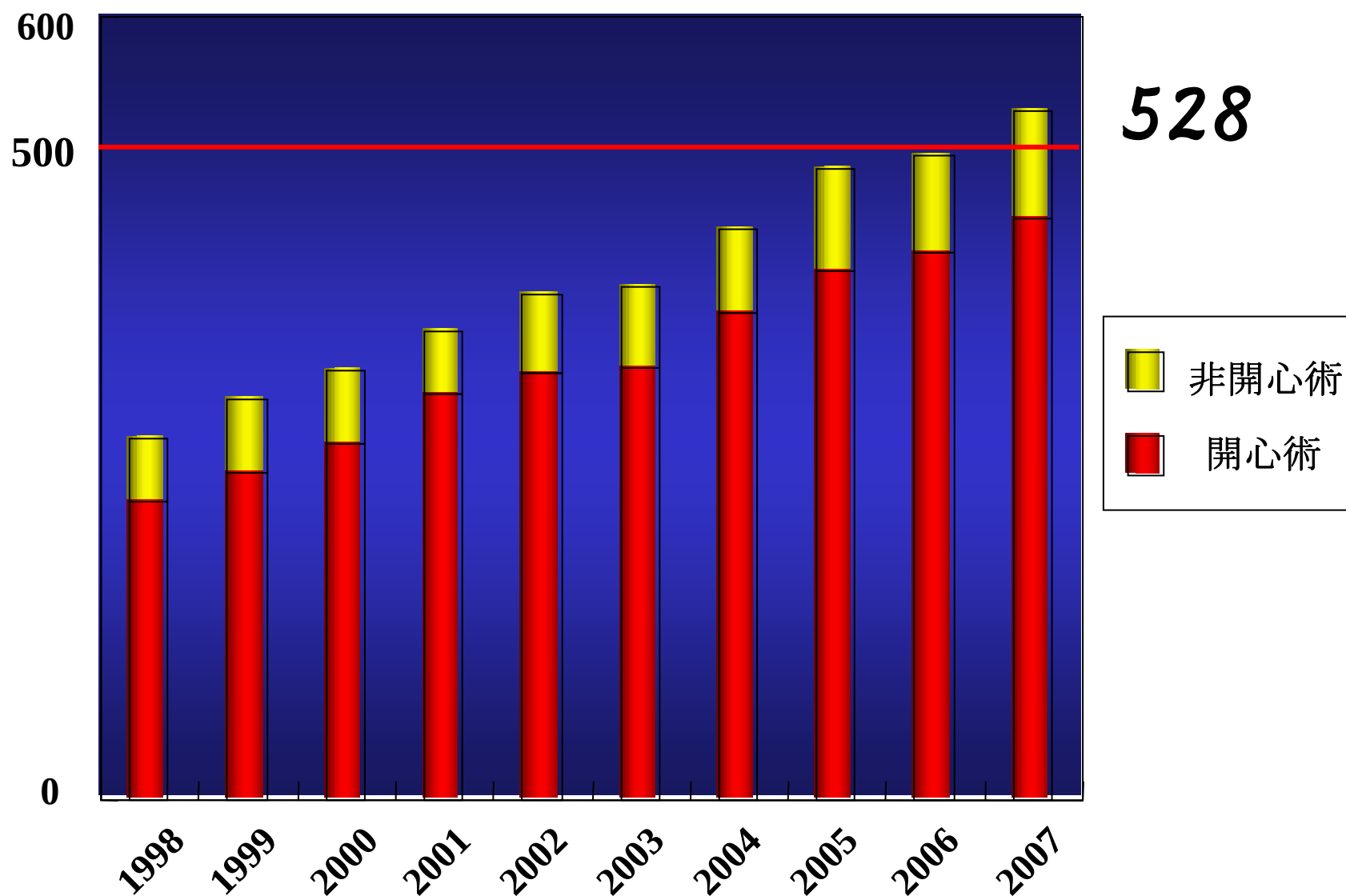
心臓大血管 528例 その他 44例

Staff 3人
Resident 4人



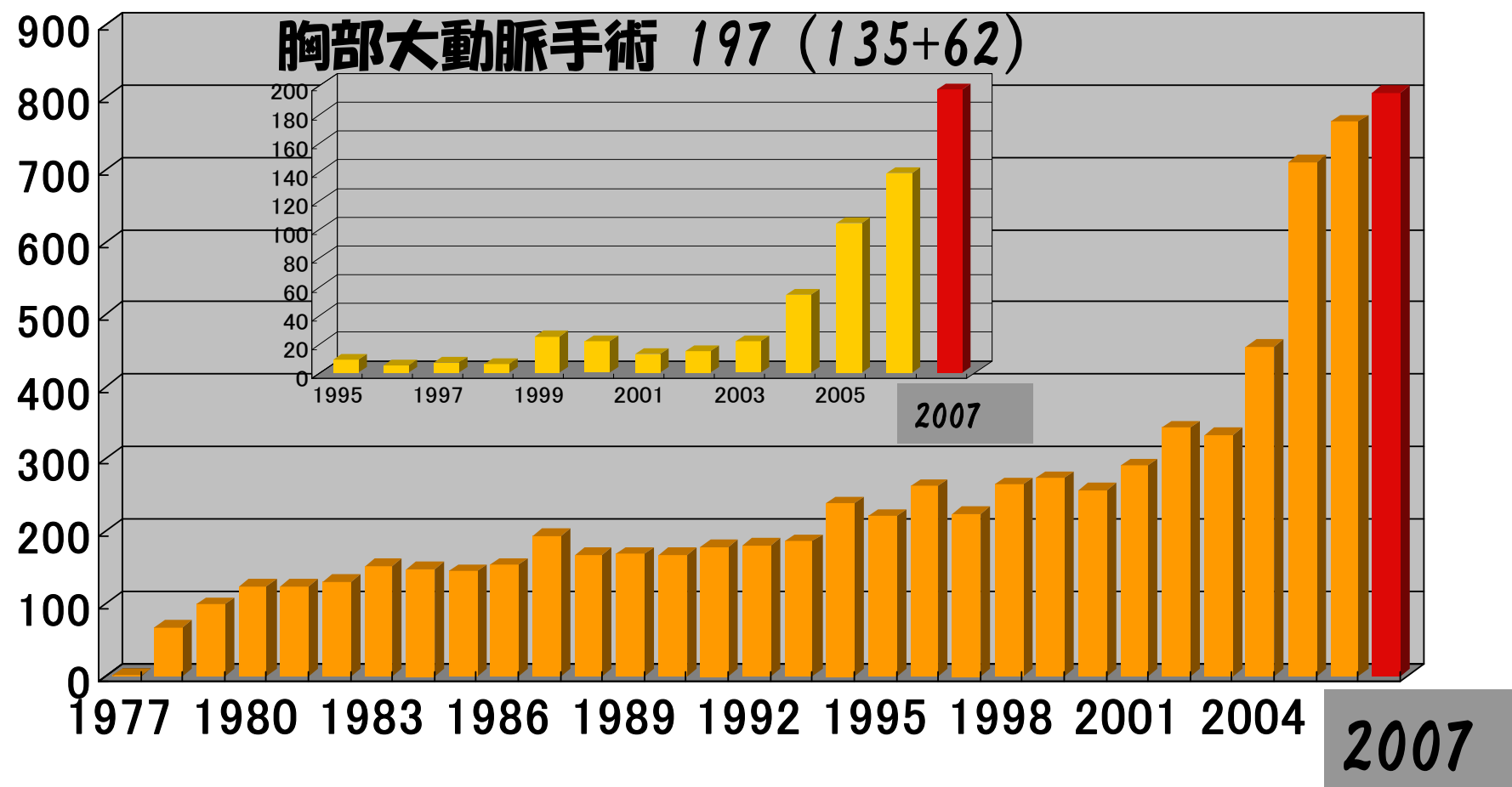
Sakakibara Heart Institute

小児班心臓血管手術



成人班心臟血管手術

807



地域支援病院



- ♥ 救命成績、手術の *Quality*、術後QOL
- ♥ 依頼を断らない 何時でも速やかに対応
- ♥ 研修、講習、研究など、医療従事者への環境



優秀なスタッフが残る

継続

Maintain Tradition

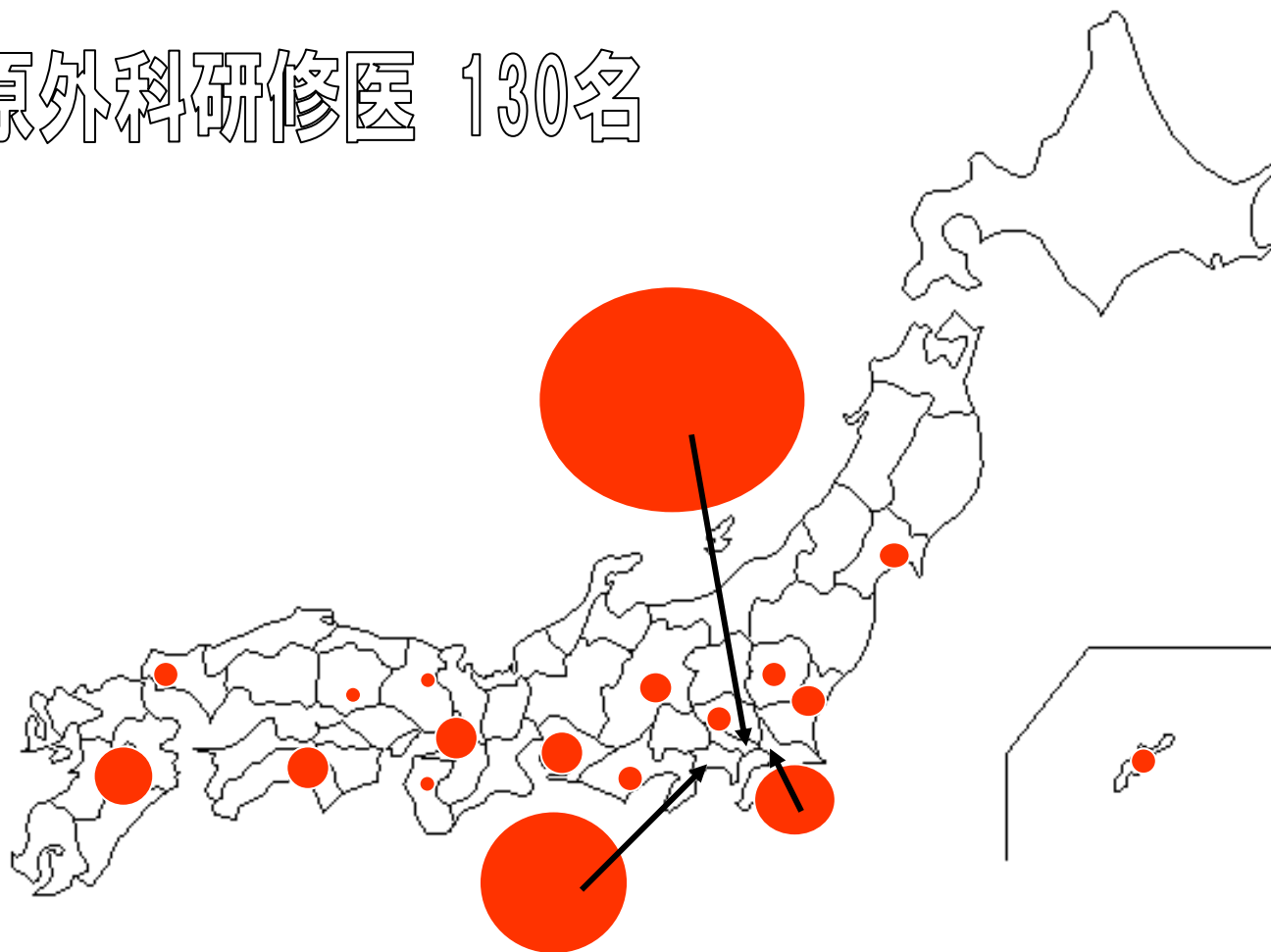
Good Quality Staff

圧倒的に良好な治療成績の提供

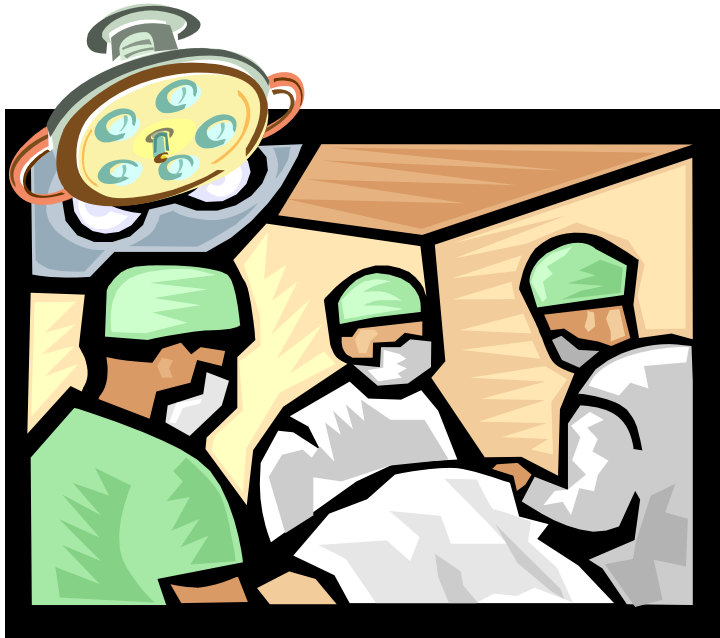
Continuous Quality Improvement

Resident

榊原外科研修医 130名



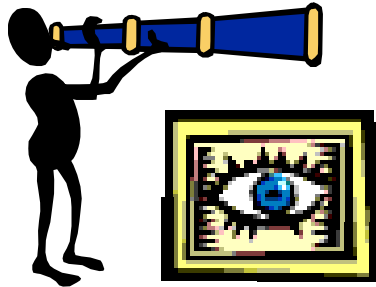
resident



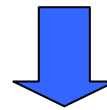
Qualification for surgeon

Minimum requirement first 3 years

Observation 1500 cases/year



Minimum requirement



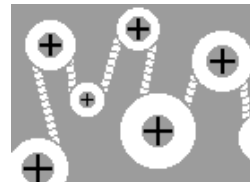
first 1 year



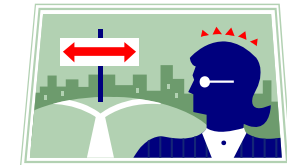
Understanding of Clinical Course & Patient Care



Knowledge



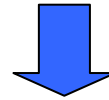
NICU CCU → Operation → ICU → Ward



Knack & Pitfalls

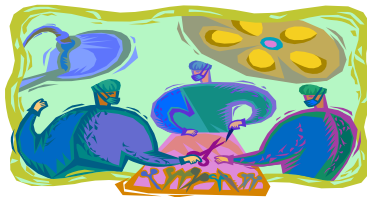
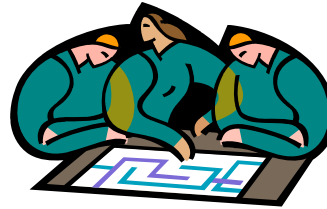
Problem Solving Based Medicine 問題解決型医療

Minimum requirement next 1 year



守破

Perusal Learning & Inspection Visit



Surgical Technique & Medical Knowledge (Drug Therapy)

Qualification for operator

Qualification for operator



Evaluation & Discussion

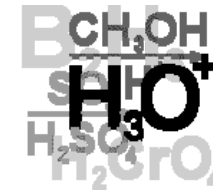


Within 3 years

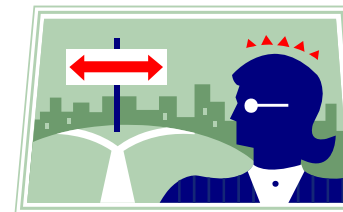


守破

Chief Resident



Education & Lecture for Young Trainee Thorough understanding



Flow Control & Judgement

Qualification for operator

症例 : 8歳、29kg 心房中隔欠損症

		入室					退室
麻醉時間	0	15	30	45	60	75	80分
		↑	↑	↑	↑	↑	
		挿管	切開	pump on	pump off	閉創	
				CPB			
膀胱温 (°C)		36.7		35.1		36.0	
	Na (mEq/l)	138		132		137	
	K (mEq/l)	3.7		3.5		3.5	
動脈血	B.E.	+1.3		+3.5		+2.7	
	Hct (%), Hb(g/dl)	41.0、14.0		29.0、4.4		28.5	
	T.P. (g/dl)	6.7		4.4		4.8	
	25% albumin (ml)						

Operating Room



Linear (non-parallel) processing

5

手術時間 80分

麻醉時間 120分

Minimum requirement

4



Chief Resident

閉胸

Trusty



Anesthetist



Scrub Nurse



Perfusionist



Paediatrician

3年目研修医の重要性



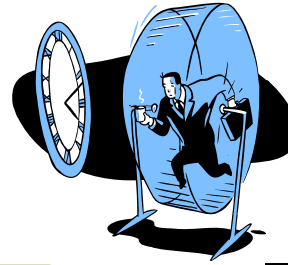
Flow Control & Judgement

Education & Lecture for Young Trainee

Smart use of Time



Quick Surgery



Smart Use of Time



Beat the Time



Make Time

Fast Track

SIRS



2005



2007



2006



95.2 ± 0.4

6.7 ± 0.4

Low Invasive

Aristotle Score : 7.0 Survival : 97.2%

Quick Surgery



Smart Use of Time



Beat the Time



Make Time

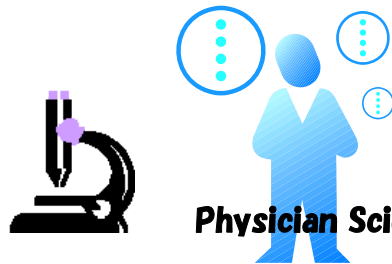
Incentive to Study

Consent

Lead a Life of Leisure



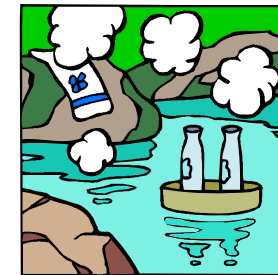
Society participation & presentation



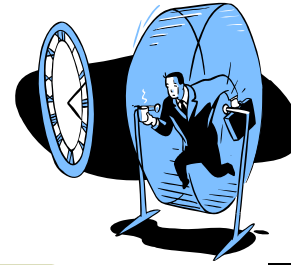
Physician Scientist



Research & Complete Thesis



Quick Surgery



Smart Use of Time

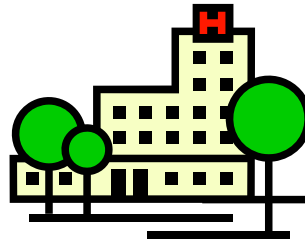


Beat the Time



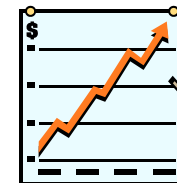
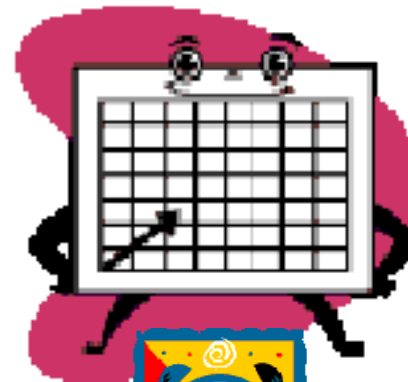
Make Time

Position & Post



Specialist

Management

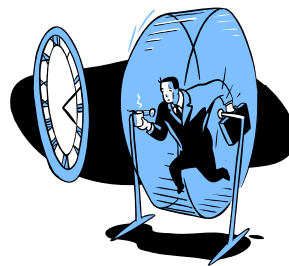


Pay Raise ?



Surplus & Deficit

Quick Surgery



Smart Use of Time



Beat the Time



Make Time

Private Time



Surgeon



Anesthetist



Scrub Nurse



Perfusionist



Cardiologist



Nurse



Get home at 5:00 PM



Bacchus 松尾様



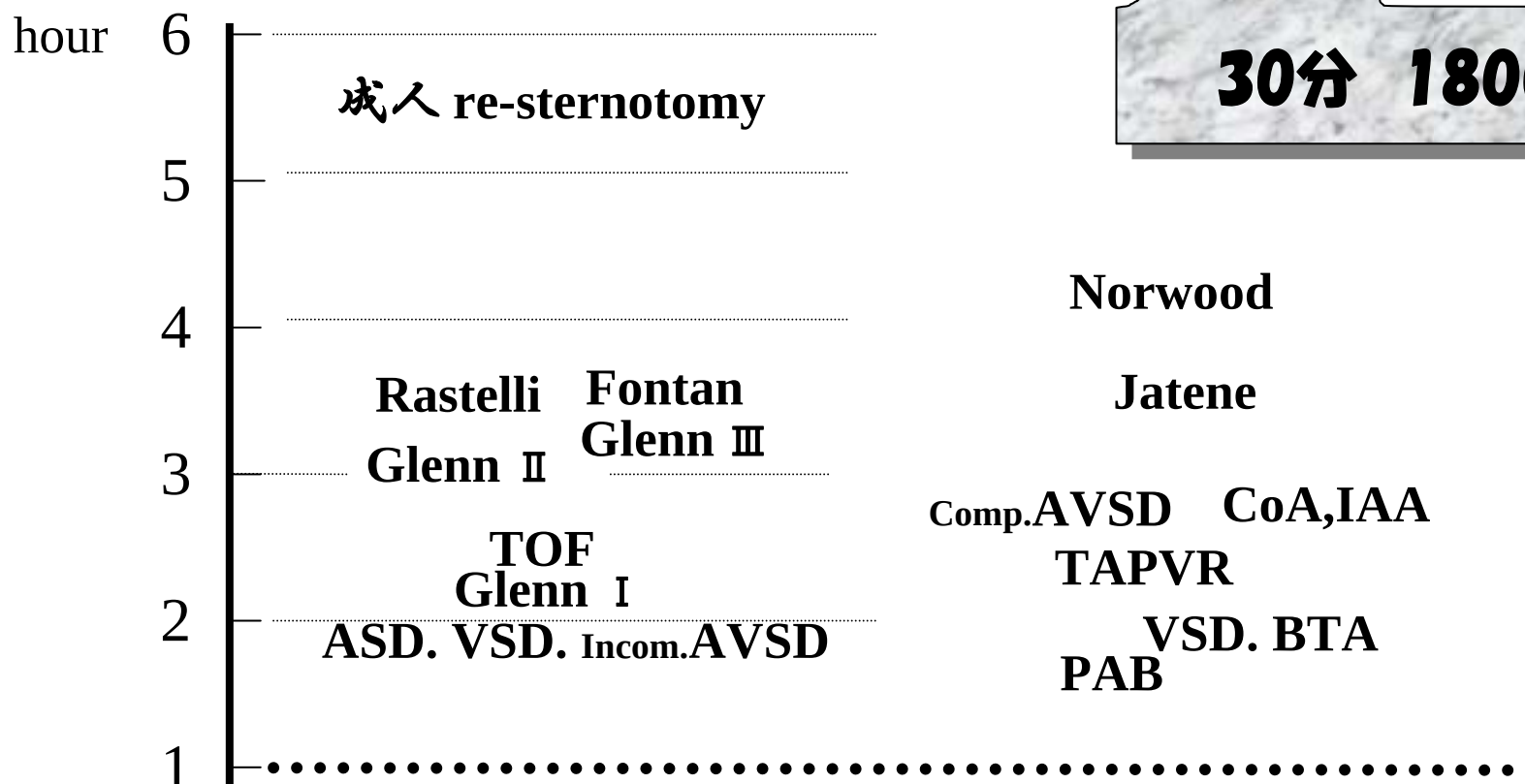
超 Happy Mood



麻醉時間



Value Time



30分 1800点

定期手術

準緊急・緊急手術



Sakakibara Heart Institute

Logic Tree for Training

