Level-2

ACHDの日常的診療を行えるレベル（1年程度のACHD研修）ACHD専門外来

•Advanced training (Level 2): Special expertise in adults with CHD
Basic Science: 後天性心疾患の病態生理の理解（特に心不全、不整脈、冠動脈疾患）

Adult Medical Care Issues: 成人特有の問題
•冠動脈疾患、高血圧、高脂血漿、慢性閉塞性肺疾患
•CHDの自然歴　•術後後遺症、長期予後
•成人CHDの管理　•成人への移行の問題　•思春期の問題
•外来診療の経験　•core curriculumでの講義
•地域のACHD専門施設への紹介の適応
•思春期と若年成人における診療の特異性
•避妊、妊娠、出産にかかわる問題　•活動性と運動　•教育
•医療保険　•就職　•心理学的問題

Participation requirements
•成人先天性心疾患外来への参加、1回/週、10症例/週、
ACHDの周術期管理、ACHD手術の観察

Program requirements
•ACHD専門医の配置　(少なくとも１名)

iii)ACHDを専門としてみていくレベル（ACHD専門施設に長期に所属）

•Advanced Traning (Level 3): Advanced Expertise in Adults with CHD

臨床研究および基礎研究
心エコー、心臓カテーテル検査を含む診療への参加

修練期間　24 months

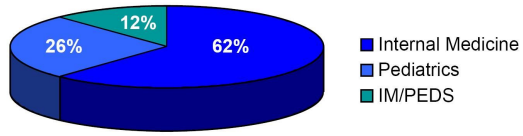
経験症例数
- 40 catheterizations
- 300 TTE cases
- 50 TEE cases

Current practice location for the 43 US ACHD fellowship graduates continuing to care for ACHD patients　*Daniels C et al*

Formal ACHD Fellowship Program

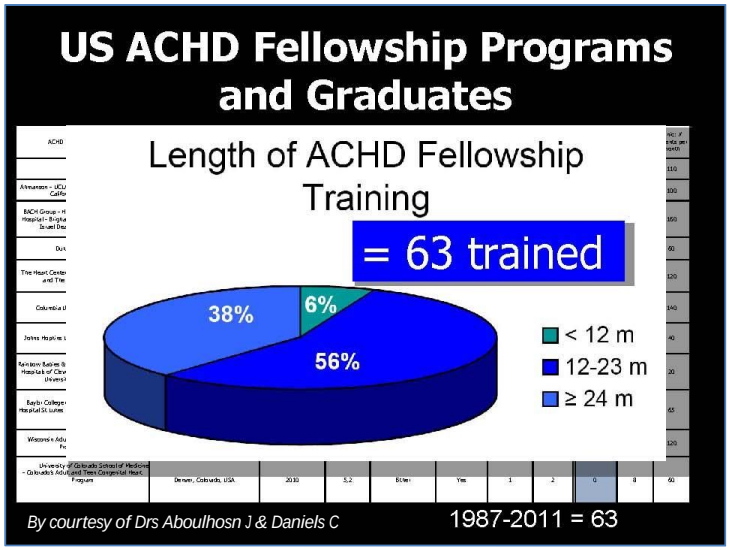
Royal Brompton Hosp
Mayo Clinic
UCLA
BACH(Harvard)
Toronto
Duke Medical Center
Columbus Heart Center
McGill Adult Center
Montreal Heart Institute
Baylor College of Medicine
Chiba Cardiovascular Center

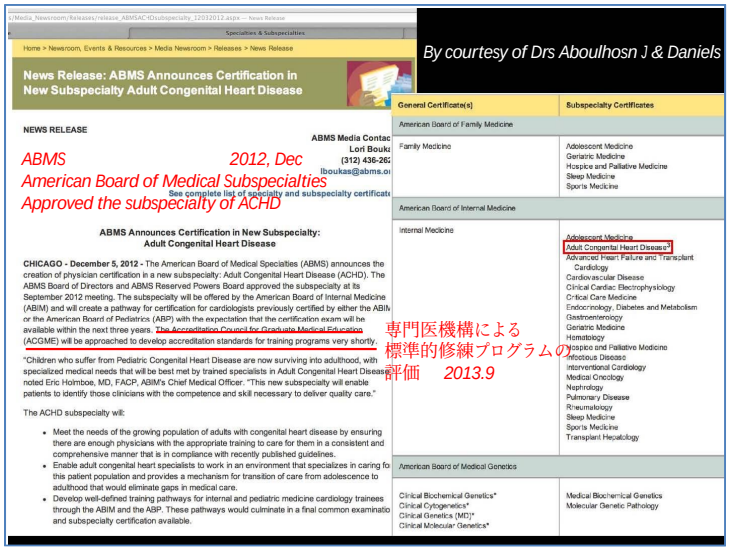
ACHD Fellowship Graduates
Cardiology Background

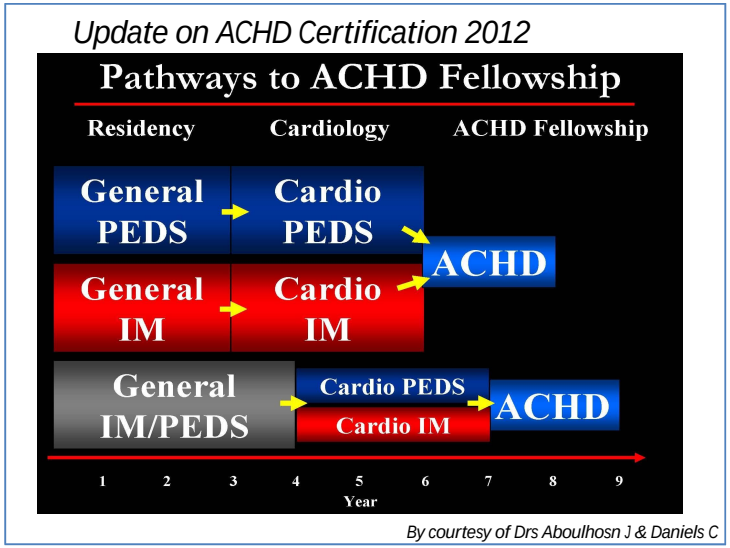


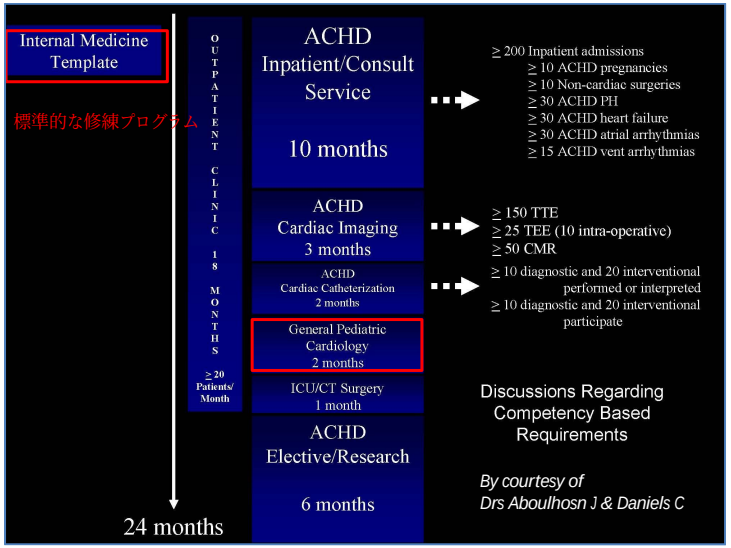
The majority of fellows followed an IM cardiology prior to fellowship

Daniels C et al


US ACHD Fellowship Programs and Graduates
Length of ACHD Fellowship Training
= 63 trained
38%
6%
56%
< 12 m
12-23 m
≥ 24 m
By courtesy of Drs Aboulhosn J & Daniels C
1987-2011 = 63


By courtesy of Drs Aboulhosn J & Daniels
News Release: ABMS Announces Certification in New Subspecialty Adult Congenital Heart Disease
ABMS Announces Certification in New Subspecialty: Adult Congenital Heart Disease
ABMS
2012, Dec
American Board of Medical Subspecialties
Approved the subspecialty of ACHD
専門医機構による
標準的修練プログラムの
評価 2013.9


Update on ACHD Certification 2012
Pathways to ACHD Fellowship
Residency
Cardiology
ACHD Fellowship
General PEDS
Cardio PEDS
ACHD
General IM
Cardio IM
General IM/PEDS
Cardio PEDS
Cardio IM
ACHD
1 2 3 4 5 6 7 8 9
Year
By courtesy of Drs Aboulhosn J & Daniels C


Internal Medicine Template
標準的な修練プログラム
OUTPATIENT CLINIC 18 MONTHS
≥ 20 Patients/ Month
ACHD Inpatient/Consult Service
10 months
≥ 200 Inpatient admissions
≥ 10 ACHD pregnancies
≥ 10 Non-cardiac surgeries
≥ 30 ACHD PH
≥ 30 ACHD heart failure
≥ 30 ACHD atrial arrhythmias
≥ 15 ACHD vent arrhythmias
ACHD Cardiac Imaging
3 months
≥ 150 TTE
≥ 25 TEE (10 intra-operative)
≥ 50 CMR
ACHD Cardiac Catheterization
2 months
≥ 10 diagnostic and 20 interventional performed or interpreted
≥ 10 diagnostic and 20 interventional participate
General Pediatric Cardiology
2 months
ICU/CT Surgery
1 month
ACHD Elective/Research
6 months
24 months
Discussions Regarding Competency Based Requirements
By courtesy of Drs Aboulhosn J & Daniels C