A monthly journal of cardiology published in association with the British Cardiac Society

A tribute to Walter Somerville

Editorial Dennis Krikler 1

An appreciation of Walter Somerville John Goodwin 3

"In Dublin's fair city". Walter Somerville: the early years Eoin O'Brien 5

Walter Somerville: a tribute Simon Dack 9

Walter Somerville Frits L Meijer 11

Walter Somerville—notre ami britannique Paul Puech 12

Social class and coronary heart disease G Rose, M G Marmot 13

Rastelli procedure for transposition of the great arteries, ventricular septal defect, and left ventricular outflow tract obstruction. Early and late results in 41 patients (1971 to 1978) A L Moulton, M R de Leval, F J Macartney, J F N Taylor, J Stark 20

Regional non-uniformity of left ventricular wall movement in man R A Greenbaum, D G Gibson 29

Cardiac pain at rest. Management and follow-up of 100 consecutive cases N Brooks, Carole Warness, M Cattell, R Balcon, M Honey, C Layton, M Sturridge, J Wright 35

Reappraisal of lignocaine therapy in management of myocardial infarction B L Pentecost, J V De Giovanni, P Lamb, P J Cadigan, K L Evemy, E J Flint 42

Significance of minor ST segment and T wave changes in the resting electrocardiogram of asymptomatic subjects M Joy, D W Trump 48

Relation between QT interval and heart rate. New design of physiologically adaptive cardiac pacemaker A F Rickards, J Norman 56

Sinuatrial disease in young people A F Mackintosh 62

Anatomico-electrophysiological correlations in the conduction system—a review R H Anderson, A E Becker, J Tranum-Jensen, M J Janse 67

Relation between atrioventricular pathways and ventricular response during atrial fibrillation and flutter E Rowland, P Curry, K Fox, D Krikler 83

Pathological view of sudden cardiac death Michael J Davies 88

Case reports

Congenital aneurysm of left atrial appendage D A Bramlet, J E Edwards 97

Congenital fistula between left ventricle and coronary sinus Katherine M J McGarry, J Stark, F J Macartney 101

Treatment of paroxysmal nodal tachycardia by dual demand pacemaker in the coronary sinus D B O'Keeffe, P V L Curry, E Sowton 105

British Medical Association

ASTM CODEN: BHJUAV 45 (1) 1-108 (1981)
# CONTENTS OF VOLUME 45

## Number 1

### Editorial
- Dennis Krikler

### An Appreciation of Walter Somerville
- John Goodwin

### “In Dublin’s Fair City”. Walter Somerville: the Early Years
- Eoin O’Brien

### Walter Somerville: a Tribute
- Simon Dack

### Walter Somerville
- Frits L Meijler

### Walter Somerville—Notre Ami Britannique
- Paul Puech

### Social Class and Coronary Heart Disease
- G Rose, M G Marmot

### Rastelli Procedure for Transposition of the Great Arteries, Ventricular Septal Defect, and Left Ventricular Outflow Tract Obstruction. Early and Late Results in 41 Patients (1971 to 1978)
- A L Moulton, M R de Leval, F J Macartney, J F N Taylor, J Stark

### Regional Non-Uniformity of Left Ventricular Wall Movement in Man
- R A Greenbaum, D G Gibson

### Cardiac Pain at Rest. Management and Follow-up of 100 Consecutive Cases
- N Brooks, Carole Warnes, M Cattell, R Balcon, M Honey, C Layton, M Sturridge, J Wright

### Reappraisal of Lignocaine Therapy in Management of Myocardial Infarction
- B L Pentecost, J V De Giovanni, P Lamb, P J Cadigan, K L Everny, E J Flint

### Significance of Minor ST Segment and T Wave Changes in the Resting Electrocardiogram of Asymptomatic Subjects
- M Joy, D W Trump

### Relation Between QT Interval and Heart Rate. New Design of Physiologically Adaptive Cardiac Pacemaker
- A F Rickards, J Norman

### Sinuatrial Disease in Young People
- A F Mackintosh

### Anatomico-electrophysiological Correlations in the Conduction System—A Review
- R H Anderson, A E Becker, J Tranum-Jensen, M J Janse

### Relation Between Atrioventricular Pathways and Ventricular Response During Atrial Fibrillation and Flutter
- E Rowland, P Curry, K Fox, D Krikler

### Pathological View of Sudden Cardiac Death
- Michael J Davies

### Case Reports
- 97, 101, 105
<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EDITORIAL: TERMINOLOGY FOR RADIOGRAPHIC PROJECTIONS</strong></td>
<td>R G Grainger</td>
<td>109</td>
</tr>
<tr>
<td>CINEANGIOCARDIOGRAPHY IN TETRALOGY OF FALLOT</td>
<td>J B Partridge, G I Fiddler</td>
<td>112</td>
</tr>
<tr>
<td>LEFT VENTRICULAR FUNCTION IN DIABETES MELLITUS. I: METHODOLOGY, AND PREVALENCE AND SPECTRUM OF ABNORMALITIES</td>
<td>L M Shapiro, A P Howat, M M Calter</td>
<td>122</td>
</tr>
<tr>
<td>LEFT VENTRICULAR FUNCTION IN DIABETES MELLITUS. II: RELATION BETWEEN CLINICAL FEATURES AND LEFT VENTRICULAR FUNCTION</td>
<td>L M Shapiro, B A Leatherdale, J Mackinnon, R F Fletcher</td>
<td>129</td>
</tr>
<tr>
<td>PULMONARY ATRESIA WITH VENTRICULAR SEPTAL DEFECT AND MAJOR AORTOPULMONARY COLLATERAL ARTERIES. EFFECT OF SYSTEMIC PULMONARY ANASTOMOSIS</td>
<td>Sheila G Haworth, P G Rees, J F N Taylor, F J Macartney, M de Leval, J Stark</td>
<td>133</td>
</tr>
<tr>
<td>CORONARY ARTERIAL ANATOMY IN BICUSPID AORTIC VALVE. NECROPSY STUDY OF 100 HEARTS</td>
<td>P K Lerer, W D Edwards</td>
<td>142</td>
</tr>
<tr>
<td>DETECTION OF LEFT ATRIAL THROMBI BY ECHOCARDIOGRAPHY</td>
<td>P Schweizer, P Bardos, R Erbel, J Meyer, W Merx, B J Messmer, S Effert</td>
<td>148</td>
</tr>
<tr>
<td>NON-INVASIVE ESTIMATION OF PULMONARY ARTERY SYSTOLIC PRESSURE WITH DOPPLER ULTRASOUND</td>
<td>L Hatle, B A J Angelsen, A Tromsdal</td>
<td>157</td>
</tr>
<tr>
<td>EFFECT OF MITRAL VALVULAR REGURGITATION ON TRANSTHORACIC IMPEDANCE CARDIOGRAM</td>
<td>R M Schieken, M R Patel, H L Falsetti, M R Lauer</td>
<td>166</td>
</tr>
<tr>
<td>ADVANTAGES OF TECHNETIUM PYROPHOSPHATE SCINTIGRAPHY OVER PLASMA ENZYME ANALYSIS IN ESTIMATION OF ANTERIOR MYOCARDIAL INFARCT SIZE</td>
<td>S Saltissi, P S Robinson, M M Webb-Peploe, D J Coltart, D N Croft</td>
<td>173</td>
</tr>
<tr>
<td>CORONARY AND PERIPHERAL ARTERIAL RESPONSES TO ERGOMETRINE IN PATIENTS SUSCEPTIBLE TO CORONARY AND OESOPHAGEAL SPASM</td>
<td>J J Dalal, A M Dart, H A Davies, D J Sheridan, M S T Ruttley, A H Henderson</td>
<td>181</td>
</tr>
<tr>
<td>ACUTE AND CHRONIC HAEMODYNAMIC EFFECTS OF PRAZOSIN IN LEFT VENTRICULAR FAILURE</td>
<td>L Stein, P R Foster, A W Friedman, J Statza, P L McHenry</td>
<td>186</td>
</tr>
<tr>
<td>CORONARY ARTERY DISEASE IN TWINS</td>
<td>D R Holmes Jr, A J Kennel, H C Smith, H Gordon, S B Moore</td>
<td>193</td>
</tr>
<tr>
<td>QUANTITATIVE THALLIUM-201 MYOCARDIAL IMAGING IN ASSESSING RIGHT VENTRICULAR PRESSURE IN PATIENTS WITH CONGENITAL HEART DEFECTS</td>
<td>Marlene Rabinovitch, K C Fischer, S Treves</td>
<td>198</td>
</tr>
<tr>
<td>SPECIFICITY OF SYSTOLIC ANTERIOR MOTION OF ANTERIOR MITRAL LEAFLET FOR HYPERTROPHIC CARDIOMYOPATHY. PREVALENCE IN LARGE POPULATION OF PATIENTS WITH OTHER CARDIAC DISEASES</td>
<td>B J Maron, J S Gottlieder, L W Perry</td>
<td>206</td>
</tr>
<tr>
<td>NON-INVASIVE EVALUATION OF CARDIAC FUNCTION IN PROFESSIONAL CYCLISTS</td>
<td>I Bekaert, J L Pannier, C Van de Weghe, J P Van Durme, D L Clement, R Pannier</td>
<td>213</td>
</tr>
<tr>
<td>CASE REPORTS</td>
<td></td>
<td>219</td>
</tr>
<tr>
<td>CORRESPONDENCE</td>
<td></td>
<td>230</td>
</tr>
</tbody>
</table>
EDITORIAL: PREVENTION OF INFECTIVE ENDOCARDITIS
Celia Oakley, W Somerville 233

ANALYSIS OF ATRIOVENTRICULAR JUNCTION, VENTRICULAR MASS, AND VENTRICULOARTERIAL JUNCTION IN 43 SPECIMENS WITH ATRIAL ISOMERISM
S M De Tommasi, L Daliento, S Y Ho, F J Macartney, R H Anderson 236

LEFT VENTRICULAR FIBRE ARCHITECTURE IN MAN
R A Greenbaum, S Y Ho, D G Gibson, A E Becker, R H Anderson 248

REGIONAL NON-uniformity OF WALL DYNAMICS IN NORMAL LEFT VENTRICLE
E Shapiro, D L Marier, M G St John Sutton, D G Gibson 264

VARIABILITY OF ELECTROCARDIOGRAPHIC AND ENZYME EVOLUTION OF MYOCARDIAL INFARCTION IN MAN
S Yusuf, R Lopez, A Maddison, P Sleight 271

24-HOUR ELECTROCARDIOGRAPHIC STUDY OF HEART RATE AND RHYTHM PATTERNS IN POPULATION OF HEALTHY CHILDREN
D P Southall, F Johnston, E A Shinebourne, P G B Johnston 281

ELECTROPHYSIOLOGICAL EFFECTS OF LORCAINIDE, A NEW ANTIARRHYTHMIC DRUG. OBSERVATIONS IN PATIENTS WITH AND WITHOUT PRE-excitation
F W Bär, J Farré, D Ross, E J Vanagt, A P Gorgels, H J J Wellens 292

DIAGNOSIS OF SLIGHT AND SUBACUTE CORONARY ATTACKS IN THE COMMUNITY
David Short 299

PULMONARY ARTERIAL STRUCTURE IN PULMONARY ATRESIA AFTER PROSTAGLANDIN E2 ADMINISTRATION
S G Haworth, E D Silove 311

RIGHT ATRIAL OUTLET ATRESIA WITH STRADDLING LEFT ATRIOVENTRICULAR VALVE. A FORM OF DOUBLE OUTLET ATRIUM
E Otero Coto, R Calabro, F Marsico, J S Lopez Arranz 317

CASE REPORTS 325, 328, 331

PROCEEDINGS OF THE BRITISH CARDIAC SOCIETY 336
REVIEW: THE THIRD DECADE OF CARDIAC PACING. MULTIPROGRAMMABLE PULSE GENERATORS
S S Barold, M D Falkoff, L S Ong, R A Heinle 357

ECHOCARDIOGRAPHIC ASSESSMENT OF LEFT VENTRICULAR FILLING CHARACTERISTICS AFTER MITRAL VALVE REPLACEMENT WITH THE ST JUDE MEDICAL PROSTHESIS
M St John Sutton, R Roudaut, P Oldershaw, H Bricaud 365

NON-INVASIVE MEASUREMENT OF LEFT VENTRICULAR FUNCTION IN CORONARY ARTERY DISEASE. COMPARISON OF FIRST PASS RADIONUCLIDE VENTRICULOGRAPHY, M-MODE ECHOCARDIOGRAPHY, AND SYSTOLIC TIME INTERVALS
F C Basilico, E D Folland, Stephanie Karaffa, D E Tow, A F Parisi 369

VASODILATOR TREATMENT WITH ISOSORBIDE DINITRATE AND HYDRAZINE IN CHRONIC HEART FAILURE. DIFFERING HAEMODYNAMIC RESPONSES AT REST AND DURING UPRIGHT EXERCISE
B M Massie, B Kramer, E Shen, Frances Haughom 376

HAEMODYNAMIC EFFECTS OF PROSTACYCLIN (PGI2) IN PULMONARY HYPERTENSION
D N Guadagni, H Ikram, A H Maslowski 385

COMPARISON OF SERUM MYOGLOBIN AND CREATINE KINASE MB ISOENZYME IN EARLY DIAGNOSIS OF ACUTE MYOCARDIAL INFARCTION
A P Freeman, K R Fatches, I W Carter, M J Cloonan, D E L Wilcken 389

ATRESIA OF LEFT ATRIOVENTRICULAR ORIFICE. ANATOMICAL INVESTIGATION IN 62 CASES
G Thiene, L Daliento, C Frescura, M De Tommassi, F J Macartney, R H Anderson 393

SCORING TECHNIQUE FOR DIAGNOSIS OF VENTRICULAR HYPERTROPHY FROM THREE ORTHOGONAL LEAD ELECTROCARDIOGRAM
P W Macfarlane, C Y Chen, B Boyce, R S Fraser 402

CORONARY ARTERY THROMBOSIS IN PATIENTS WITH UNSTABLE ANGINA
D R Holmes Jr, G O Hartzler, H C Smith, V Fuster 411

LONG-TERM SURVIVAL AFTER CORONARY BYPASS SURGERY. COMPARISON OF VARIOUS SUBSETS OF PATIENTS WITH GENERAL POPULATION

LONG-TERM RESULTS AFTER LEFT VENTRICULAR ANEURYSMECTOMY
J E Otterstad, O Christensen, K Levorstad, S Nitter-Hauge 427

NON-FATAL HEALED TRANSMURAL MYOCARDIAL INFARCTION AND FATAL NON-CARDIAC DISEASE. QUALIFICATION AND QUANTIFICATION OF CORONARY ARTERIAL NARROWING AND OF LEFT VENTRICULAR SCARRING IN 18 NECROPSY PATIENTS
R Virmani, W C Roberts 434

LOW BLOOD PRESSURE IN PSYCHIATRIC INPATIENTS
G Masterton, C J Main, A F Lever, R S Lever 442

SYSTOLIC TIME INTERVALS AND HAEMODYNAMIC CHANGES DURING INTRAVENOUS INFUSION OF PROSTAGLANDINS F2α AND E2
P Thayssen, N J Secher, P Arnsbo 447

NIFEDIPINE AND LEFT VENTRICULAR FUNCTION IN BETA-BLOCKED PATIENTS
P I Joshi, J J Dalal, M S J Ruttley, D J Sheridan, A H Henderson 457

CAREER PROSPECTS IN CARDIOLOGY IN ENGLAND AND WALES. SURVEY OF 15 HEALTH REGIONS
D A Chamberlain, J F Goodwin, R W Emanuel, Linda G Bailey 460

CASE REPORTS 464, 467, 471

Number 4
Number 5

CRITICAL ANALYSIS OF ENDOMYOCARDIAL BISPECS FROM PATIENTS SUSPECTED OF HAVING CARDIOMYOPATHY. I: MORPHOLOGICAL AND MORPHOMETRIC ASPECTS
U Baandrup, E G J Olsen 475

CRITICAL ANALYSIS OF ENDOMYOCARDIAL BISPECS FROM PATIENTS SUSPECTED OF HAVING CARDIOMYOPATHY. II: COMPARISON OF HISTOLOGY AND CLINICAL/HAEOMODYNAMIC INFORMATION
U Baandrup, R A Florio, M Rehahn, P J Richardson, E G J Olsen 487

OVERCONTRACTION AND EXCESS ACTIN FILAMENTS. BASIC ELEMENTS OF HYPERTROPHIC CARDIOMYOPATHY
D Harmjanz, E Reale 494

CARDIAC ARRHYTHMIAS 48 HOURS BEFORE, DURING, AND 48 HOURS AFTER DISCHARGE FROM HOSPITAL FOLLOWING ACUTE MYOCARDIAL INFARCTION
G W Morrison, E B Kumar, R W Portal, C P Aber 500

T WAVE CHANGES AND POSTINFECTION ANGINA PECTORIS PREDICTIVE OF RECURRENT MYOCARDIAL INFARCTION
R Löfmark 512

SPONTANEOUS REMISSION IN VARIANT ANGINA
A L Girotti, B Rutitzky, J Schmidberg, J Crosatto, M B Rosenbaum 517

DIAGNOSIS OF OLD ANTERIOR MYOCARDIAL INFARCTION IN EMPHYSEMA WITH POOR R WAVE PROGRESSION IN ANTERIOR CHEST LEADS
G J Hart, P A Barrett, P F Barnaby, Elizabeth H Clark, N R Lyons, J J Burke 522

CONGENITAL MITRAL STENOSIS. ANATOMICAL AND FUNCTIONAL ASSESSMENT BY ECHOCARDIOGRAPHY
J Smallhorn, G Tommasini, J Deanfield, J Douglas, D Gibson, F Macartney 527

DETECTION OF LEFT VENTRICULAR THROMBI BY COMPUTERISED TOMOGRAPHY. A PRELIMINARY REPORT
C K Nair, M H Sketch, P D Mahoney, J D Lynch, A N Mooss, N P Kenney 535

MITRAL REGURGITATION AND CHARACTERISTIC CHANGES IN IMPEDANCE CARDIOM
J N Karnegis, Jeanne Heinz, W G Kubicek 542

AORTOCORONARY BYPASS GRAFTING IN PATIENTS WITHOUT LEFT MAIN STENOSIS. RELATION OF RISK FACTORS TO EARLY AND LATE SURVIVAL

AORTIC ORIGIN OF CONUS CORONARY ARTERY. EVIDENCE OF POSTNATAL CORONARY DEVELOPMENT
B S Edwards, W D Edwards, J E Edwards 555

FACTORS INFLUENCING SURVIVAL AFTER BALLOON ATRIAL SEPTOSTOMY FOR COMPLETE TRANSPOSITION OF GREAT ARTERIES
R Leanage, A Agnetti, G Graham, J Taylor, F J Macartney 559

FORMALIN INFILTRATION OF DUCTUS ARTERIOSUS IN CYANOTIC CONGENITAL HEART DISEASE
J E Deanfield, P G Rees, Catherine M Bull, M de Leval, J Stark, F J Macartney, J F N Taylor 573

DIAGNOSIS OF AORTIC STENOSIS IN OLDER AGE GROUPS USING EXTERNAL CAROTID PULSE RECORDING AND PHONOCARDIOGRAPHY
Kathleen H Flohr, E K Weir, E Chesler 577

LIMITATION OF MYOCARDIAL INFARCT SIZE IN PATIENTS LESS THAN 66 YEARS TREATED WITH ALPRENOLOL
H J Jürgensen, J Frederiksen, D A Hansen, O Pedersen-Bjergaard 583

NON-INVASIVE DIAGNOSIS OF MITRAL REGURGITATION BY DOPPLER ECHOCARDIOGRAPHY
D Blanchard, B Diebold, P Peronneau, J M Foulit, M Nee, J L Gueremonpréz, P Maurice 589

ELECTROPHYSIOLOGICAL FACTORS OF LEFT BUNDLE-BRANCH BLOCK
P A Barrett, I Yamaguchi, J L Jordan, W J Mandel 594

CASE REPORTS
602, 605

PROCEEDINGS OF THE BRITISH CARDIAC SOCIETY
620
Number 6

CLINICAL APPLICATION OF AMPLITUDE PROCESSING OF ECHOCARDIOGRAPHIC IMAGES
R Logan-Sinclair, C M Wong, D G Gibson 621

EFFECTS OF ACUTE AND CHRONIC BETA-receptor BLOCKADE ON VENTRICULAR REPOLARISATION IN MAN
N Edvardsson, S B Olsson 628

ADRENERGIC HYPERSENSITIVITY AFTER BETA-blocker WITHDRAWAL
P J Ross, M J Lewis, D J Sheridan, A H Henderson 637

EFFECTS OF CHRONIC BETA-blockADE ON INTRA-ARTERIAL BLOOD PRESSURE DURING MOTOR CAR DRIVING
M W Millar-Craig, S Mann, V Balasubramanian, P Cashman, E B Raftery 643

PRINZMETAL’S ANGINA WITH DOCUMENTED CORONARY ARTERY SPASM. TREATMENT AND FOLLOW-UP
V F Huckell, P R McLaughlin, J E Morch, E D Wigle, A G Adelman 649

EFFECT OF CHRONIC BETA-BLOCKADE ON INTRA-ARTERIAL BLOOD PRESSURE DURING MOTOR CAR DRIVING
M W Millar-Craig, S Mann, V Balasubramanian, P Cashman, E B Raftery 643

TWO-DIMENSIONAL ECHOCARDIOGRAPHY IN THE DIAGNOSIS OF LEFT ATRIAL MYXOMA
L S Perry, J F King, H J Zeft, J C Manley, C M Gross, L S Wann 667

RELATION OF SEVERE EOSINOPHILIA AND MICROFILARIASIS TO CHRONIC AFRICAN ENDOMYOCARDIAL FIBROSIS
J J Andy, F F Bishara, O O Soyinka 672

SUBACUTE MASSIVE PULMONARY EMBOLISM
R J C Hall, D McHaffie, C Pusey, G C Sutton 681

FIXED SUBAORTIC STENOSIS AFTER REPAIR OF OSTIUM PRIMUM DEFECTS
N C Taylor, J Somerville 689

HEXABRIX – A NEW CONTRAST MEDIUM IN ANGIOCARDIOGRAPHY
D C Cumberland 698

USE OF EXERCISE THALLIUM SCINTIGRAPHY TO ASSESS EXTENT OF ISCHAEMIC MYOCARDIUM IN PATIENTS WITH LEFT ANTERIOR DESCENDING ARTERY DISEASE
A-H Hakki, A S Iskandrian, B L Segal, Sally A Kane 703

CARDIAC EFFECTS OF CHRONIC RENAL FAILURE AND HAEMODIALYSIS TREATMENT. HYPERTENSIVE VERSUS NORMOTENSIVE PATIENTS
M Ikäheimo, K Huttunen, J Takkunen 710

ANALYSIS OF PROGNOSTIC SIGNIFICANCE OF VENTRICULAR ARRHYTHMIAS AFTER MYOCARDIAL INFARCTION. SHORTCOMINGS OF LOWN GRADING SYSTEM
J Thomas Bigger Jr, F M Weld 717

CASE REPORTS
725, 729, 733

INDEX
737