* PATIENTS’ CLINICAL CHARACTERISTICS AT BASELINE (TABLE 1)
** "summarize" command (for describing) and "ttest" command (for differences between groups) for quantitative variables, were used, and "tab" command with chi square or Fisher’s exact test for qualitative variables.

** Age and sex.
by ARM_N, sort: summarize AGE, detail
ttest AGE, by(ARM_N)
tag SEX ARM_N, row col chi exact
prtest SEX, by(ARM_N)

** Pacing indication, symptoms and stimulation.
tag ORIGIN ARM_N, row col chi exact
tag INDICATION ARM_N, row col chi exact
tag SYMPTOMS ARM_N, row col chi exact
tag STIMULATION ARM_N, row col chi exact

** Comorbidities: high blood pressure, coronary heart disease, diabetes, tachyarrhythmia, obesity (BMI>30), other, none.
tag C_HBP ARM_N, row col chi exact
tag C_CHD ARM_N, row col chi exact
tag C_TACHYARRHYT ARM_N, row col chi exact
tag C_DISLYP ARM_N, row col chi exact
tag C_DM ARM_N, row col chi exact
tag C_OBESI ARM_N, row col chi exact
tag C_OTHER2 ARM_N, row col chi exact
tag C_NONE ARM_N, row col chi exact

** Treatment (basal): antiplatelet agents, oral anticoagulants, anti-arrhythmic drugs, anti-hypertensive drugs.
tag TR_PLAQ ARM_N, row col chi exact
tag TR_OAC ARM_N, row col chi exact
tag TR_ARRRT ARM_N, row col chi exact
tag TR_ANTIHT ARM_N, row col chi exact

** EQ5D basal (month 0) and at first month.
by ARM_N, sort: summarize EQ5D_MONTH_0, detail
ttest EQ5D_MONTH_0, by(ARM_N)
by ARM_N, sort: summarize EQ5D_MONTH_1, detail
ttest EQ5D_MONTH_1, by(ARM_N)
** COST INPUTS, COSTS PER PATIENT YEAR, AND QUALITY OF LIFE OUTCOMES (TABLE 2) **
** “ttest” command for differences between groups was used.

** UTILIZATION **
** In-office visits, patient/year **
ttest n_HOSP_TRANSM, by(ARM_N)
** Pacemaker transmission, patient/year **
ttest t_TRANSM, by(ARM_N)
** Physician time, min/patient **
ttest PHYS_MIN, by(ARM_N)
** Hospitalization days **
ttest HOSP_DAYS, by(ARM_N)
** Distance home/hosp (Km) **
ttest DISTANCE, by(ARM_N)
** Patients’ time (travel & visits) **
ttest PATIENT_TIME, by(ARM_N)

** NHS COSTS **
** Physician costs **
ttest COST_DR, by(ARM_N)
** Consultation room costs **
ttest COST_ROOM, by(ARM_N)
** Hospitalization costs **
ttest COST_HOSP, by(ARM_N)
** Ambulance transport costs **
ttest COST_AMBUL, by(ARM_N)
** Total NHS costs **
generate tCOSTS_NHS = COST_DR + COST_ROOM + COST_HOSP + COST_AMBUL
label variable tCOSTS_NHS “Total costs NHS perspective”
format %9.2f tCOSTS_NHS
ttest tCOSTS_NHS, by(ARM_N)

** PATIENT COSTS **
** Patient travel costs **
ttest COST_P_TRAVEL, by(ARM_N)
** Patient travel+waiting costs **
ttest COST_P_TRAV_WAIT, by(ARM_N)
** Other transport costs **
ttest COST_P_OTH_TRAV, by(ARM_N)
** Accompanying person costs **
ttest COST_P_ACOMP, by(ARM_N)
ttest HOSP_CONS, by(ARM_N)
** Total patient costs **
generate tCOST_PATIENT = COST_P_TRAV_WAIT + COST_P_OTH_TRAV + COST_P_ACOMP
label variable tCOST_PATIENT “Total patient&family costs”
format %9.2f tCOST_PATIENT
ttest tCOST_PATIENT, by(ARM_N)

** TOTAL (NHS + PATIENT&FAMILY) COSTS**
generate tCOSTS = tCOSTS_NHS + tCOST_PATIENT
label variable tCOSTS "Total costs (NHS+Patients&family)"
ttest tCOSTS, by(ARM_N)

** OUTCOMES**
** Hospitalizations and deaths**
by ARM_N, sort: ci HOSPITALIZ, binomial total
prtest HOSPITALIZ, by(ARM_N)
by ARM_N, sort: ci DEATH, binomial total
prtest DEATH, by(ARM_N)
** Quality of life at 6 and 12 months**
ttest EQ5D_MONTH_6, by(ARM_N)
by ARM_N, sort: ci HOSPITALIZ, binomial total
ttest EQ5D_MONTH_12, by(ARM_N)

** Generating and analyzing QALYS**
** Generating QALY1 as lineal interpolation between EQ5D weights at month 1 and 6, between month 6 and 12, and between the two resultant values.**
generate QALY_1 = (((EQ5D_MONTH_1 + EQ5D_MONTH_6)/2) + ((EQ5D_MONTH_6 + EQ5D_MONTH_12)/2))/2
label variable QALY_1 "QALYs"
form at %9.4f QALY_1
ttest QALY_1, by(ARM_N)

* COSTS PER PATIENT/YEAR AND COST–UTILITY ANALYSIS (TABLE 3)*
** Generating cost per QALY variables and testing differences.**
gen erate NHSCOST_Q1 = tCOSTS_NHS/QALY_1
replace NHSCOST_Q1=0 if NHSCOST_Q1==.
generate TCOST_Q1 = tCOSTS/QALY_1
replace TCOST_Q1=0 if TCOST_Q1==.
label variable NHSCOST_Q1 "Cost/QALY NHS perspective"
format %9.2f NHSCOST_Q1
label variable TCOST_Q1 "Total Cost/QALY"
format %9.2f TCOST_Q1
ttest NHSCOST_Q1, by(ARM_N)
ttest TCOST_Q1, by(ARM_N)

** Cost–utility analysis (total NHS costs and total costs) using heabs stata command (with a WTP threshold of 30000 and 50000 euros).**
heabs tCOSTS_NHS QALY_1, res(bene) int(ARM_N) w2p (30000)
heabs tCOSTS_NHS QALY_1, res(bene) int(ARM_N) w2p (50000)
heabs tCOSTS QALY_1, res(bene) int(ARM_N) w2p (30000)
The probabilistic analysis was carried out with the HDS online calculator (http://www.healthstrategy.com/evpiinb/evpiinb01.htm)

* SUPPLEMENTAL ANALYSIS (TABLE S2.2. COSTS PER PATIENT-YEAR EXCLUDING HOSPITALIZATION DAYS COSTS)

generate tCOST_NHS_W = tCOSTS_NHS - COST_HOSP
generate tCOST_W = tCOSTS - COST_HOSP
label variable tCOST_NHS_W "Total costs NHS perspective W/O hospitalization costs"
label variable tCOST_W "Total costs W/O hospitalization costs"
format %9.2f tCOST_NHS_W
format %9.2f tCOST_W
ttest tCOST_NHS_W, by(ARM_N)
ttest tCOST_W, by(ARM_N)

** Generating cost (w/o hospitalization days) per QALY variables.

generate NHSCOSTW_Q1 = tCOST_NHS_W/QALY_1
replace NHSCOSTW_Q1=0 if NHSCOSTW_Q1==.
generate TCOSTW_Q1 = tCOST_W/QALY_1
replace TCOSTW_Q1=0 if TCOSTW_Q1==.
label variable NHSCOSTW_Q1 "Total costs/QALY NHS perspective W/O hospitalization costs"
label variable TCOSTW_Q1 "Total costs/QALY W/O hospitalization costs"
format %9.2f TCOSTW_Q1
format %9.2f NHSCOSTW_Q1
ttest NHSCOSTW_Q1, by(ARM_N)
ttest TCOSTW_Q1, by(ARM_N)

* SUPPLEMENTAL ANALYSIS (TABLE S2.3. MEAN COSTS PER PATIENT-YEAR AND COST-UTILITY ANALYSIS, WITHOUT HOSPITALIZATION)

heabs tCOST_NHS_W QALY_1, res(bene) int(ARM_N) w2p (30000)
heabs tCOST_NHS_W QALY_1, res(bene) int(ARM_N) w2p (50000)
heabs tCOST_W QALY_1, res(bene) int(ARM_N) w2p (30000)
heabs tCOST_W QALY_1, res(bene) int(ARM_N) w2p (50000)

* SUPPLEMENTAL ANALYSIS (TABLE S3.1. DISTRIBUTION OF THE MOST RELEVANT VARIABLES BY GROUP: MEDIAN, MIN, P25, P75 AND MAX).

** In-office visits, patient/year
by ARM_N, sort: summarize n_HOSP_TRANSM, detail

** Pacemaker transmission, patient/year
by ARM_N, sort: summarize t_TRANSM, detail

** Physician time, min/patient
** Hospitalization days**
by ARM_N, sort: summarize HOSP_DAYS, detail

** Distance home/hosp (Km)**
by ARM_N, sort: summarize DISTANCE, detail

** Patients’ time (travel & visits)**
by ARM_N, sort: summarize PATIENT_TIME, detail

** Physician costs**
by ARM_N, sort: summarize COST_DR, detail

** Consultation room costs**
by ARM_N, sort: summarize COST_ROOM, detail

** Hospitalization days costs**
by ARM_N, sort: summarize COST_HOSP, detail

** Ambulance transport costs**
by ARM_N, sort: summarize COST_AMBUL, detail

** Total NHS costs**
by ARM_N, sort: summarize tCOSTS_NHS, detail

** Patient travel costs**
by ARM_N, sort: summarize COST_P_TRAVEL, detail
by ARM_N, sort: summarize COST_P_TRAV_WAIT, detail

** Other transport costs**
by ARM_N, sort: summarize COST_P_OTH_TRAV, detail

** Accompanying person costs**
by ARM_N, sort: summarize COST_P_ACOMP, detail
by ARM_N, sort: summarize HOSP CONS, detail

** Total patient costs**
by ARM_N, sort: summarize tCOST_PATIENT, detail

** Total (NHS + patient family) costs**
by ARM_N, sort: summarize tCOSTS, detail

** Total NHS costs and total costs W/O hospitalization costs**
by ARM_N, sort: summarize tCOST_NHS W, detail
by ARM_N, sort: summarize tCOST W, detail

** EQ5D utilities and QALYs**
by ARM_N, sort: summarize EQ5D_MONTH_0, detail
by ARM_N, sort: summarize EQ5D_MONTH_1, detail
by ARM_N, sort: summarize EQ5D_MONTH_6, detail
by ARM_N, sort: summarize EQ5D_MONTH_12, detail
by ARM_N, sort: summarize QALY 1, detail

** Cost per QALY**
by ARM_N, sort: summarize NHSCOST_Q1, detail
by ARM_N, sort: summarize TCOST_Q1, detail
by ARM_N, sort: summarize NHSCOSTW_Q1, detail
by ARM_N, sort: summarize TCOSTW_Q1, detail
* DO STATA FILE. NORLAND COST-UTILITY STUDY

* PATIENTS’ CLINICAL CHARACTERISTICS AT BASELINE (TABLE 1)
** ÓsummarizeÓ command (for describing) and ÓttestÓ command (for differences between groups) for quantitative variables, were used, and ÓtabÓ command with chi square or Fisher’s exact test for qualitative variables.

** Age and sex.
by ARM_N, sort: summarize AGE, detail
ttest AGE, by(ARM_N)
tab SEX ARM_N, row col chi exact
prtest SEX, by(ARM_N)

** Pacing indication, symptoms and stimulation.
tab ORIGIN ARM_N, row col chi exact
tab INDICATION ARM_N, row col chi exact
tab SYMPTOMS ARM_N, row col chi exact
tab STIMULATION ARM_N, row col chi exact

** Comorbidities: high blood pressure, coronary heart disease, diabetes, tachyarrhythmia, obesity (BMI>30), other, none.
tab C_HBP ARM_N, row col chi exact
tab C_CHD ARM_N, row col chi exact
tab C_TACHYARRHYT ARM_N, row col chi exact
tab C_DISLYP ARM_N, row col chi exact
tab C_DM ARM_N, row col chi exact
tab C_OBESI ARM_N, row col chi exact
tab C_OTHER2 ARM_N, row col chi exact
tab C_NONE ARM_N, row col chi exact

** Treatment (basal): antiplatelet agents, oral anticoagulants, anti-arrhythmic drugs, anti-hypertensive drugs.
tab TR_PLAQ ARM_N, row col chi exact
tab TR_OAC ARM_N, row col chi exact
tab TR_ARRIT ARM_N, row col chi exact
tab TR_ANTIHT ARM_N, row col chi exact

** EQ5D basal (month 0) and at first month.
by ARM_N, sort: summarize EQ5D_MONTH_0, detail
ttest EQ5D_MONTH_0, by(ARM_N)
by ARM_N, sort: summarize EQ5D_MONTH_1, detail
ttest EQ5D_MONTH_1, by(ARM_N)

* COST INPUTS, COSTS PER PATIENT YEAR, AND QUALITY OF LIFE OUTCOMES (TABLE 2)
** ÓttestÓ command for differences between groups was used.

** UTILIZATION
** In-office visits, patient/year
ttest n_HOSP_TRANSM, by(ARM_N)
** Pacemaker transmission, patient/year
ttest t_TRANSM, by(ARM_N)
** Physician time, min/patient
ttest PHYS_MIN, by(ARM_N)
** Hospitalization days
ttest HOSP_DAYS, by(ARM_N)
** Distance home/hosp (Km)
ttest DISTANCE, by(ARM_N)

** Patients’ time (travel & visits)
ttest PATIENT_TIME, by(ARM_N)

** NHS COSTS
** Physician costs
ttest COST_DR, by(ARM_N)
** Consultation room costs
ttest COST_ROOM, by(ARM_N)
** Hospitalization costs
ttest COST_HOSP, by(ARM_N)
** Ambulance transport costs
ttest COST_AMBUL, by(ARM_N)
** Total NHS costs
generate tCOSTS_NHS = COST_DR + COST_ROOM + COST_HOSP + COST_AMBUL
label variable tCOSTS_NHS "Total costs NHS perspective"
format %9.2f tCOSTS_NHS
ttest tCOSTS_NHS, by(ARM_N)

** PATIENT COSTS
** Patient travel costs
ttest COST_P_TRAVEL, by(ARM_N)
** Patient travel+waiting costs
ttest COST_P_TRAV_WAIT, by(ARM_N)
** Other transport costs
ttest COST_P_OTH_TRAV, by(ARM_N)
** Accompanying person costs
ttest COST_P_ACOMP, by(ARM_N)
ttest HOSP_CONS, by(ARM_N)
** Total patient costs
generate tCOST_PATIENT = COST_P_TRAV_WAIT + COST_P_OTH_TRAV + COST_P_ACOMP
label variable tCOST_PATIENT "Total patient&family costs"
format %9.2f tCOST_PATIENT
ttest tCOST_PATIENT, by(ARM_N)

** TOTAL (NHS + PATIENT&FAMILY) COSTS
generate tCOSTS = tCOSTS_NHS + tCOST_PATIENT
label variable tCOSTS "Total costs (NHS+Patients&family)"
ttest tCOSTS, by(ARM_N)

** OUTCOMES
** Hospitalizations and deaths
by ARM_N, sort: ci HOSPITALIZ, binomial total
prtest HOSPITALIZ, by(ARM_N)
by ARM_N, sort: ci DEATH, binomial total
prtest DEATH, by(ARM_N)
** Quality of life at 6 and 12 months
ttest EQ5D_MONTH_6, by(ARM_N)
by ARM_N, sort: ci HOSPITALIZ, binomial total
ttest EQ5D_MONTH_12, by(ARM_N)

** Generating and analyzing QALYs
** Generating QALY1 as linear interpolation between EQ5D weights at month 1 and 6, between month 6 and 12, and between the two resultant values.
generate QALY_1 = ((EQ5D_MONTH_1 + EQ5D_MONTH_6)/2) + ((EQ5D_MONTH_6 + EQ5D_MONTH_12)/2)/2
**COSTS PER PATIENT/YEAR AND COST-UTILITY ANALYSIS (TABLE 3)**

**Generating cost per QALY variables and testing differences.**

```stata
label variable QALY_1 "QALYs"
format %9.4f QALY_1
ttest QALY_1, by(ARM_N)
```

**Cost-utility analysis (total NHS costs and total costs) using heabs stata command (with a WTP threshold of 30000 and 50000 euros).**

```stata
heabs tCOSTS_NHS QALY_1, res(bene) int(ARM_N) w2p (30000)
heabs tCOSTS_NHS QALY_1, res(bene) int(ARM_N) w2p (50000)
```

* The probabilistic analysis was carried out with the HDS online calculator (http://www.healthstrategy.com/evpiinb/evpiinb01.htm)

**SUPPLEMENTAL ANALYSIS (TABLE S2.2. COSTS PER PATIENT-YEAR EXCLUDING HOSPITALIZATION DAYS COSTS)**

```stata
generate tCOST_NHS_W = tCOSTS_NHS - COST_HOSP
generate tCOST_W = tCOSTS - COST_HOSP
label variable tCOST_NHS_W "Total costs NHS perspective W/O hospitalization costs"
label variable tCOST_W "Total costs W/O hospitalization costs"
format %9.2f tCOST_NHS_W
format %9.2f tCOST_W
ttest tCOST_NHS_W, by(ARM_N)
ttest tCOST_W, by(ARM_N)
```

**Generating cost (w/o hospitalization days) per QALY variables.**

```stata
label variable tCOST_NHS_W QALY_1 "Total costs/QALY NHS perspective W/O hospitalization costs"
label variable tCOST_W QALY_1 "Total costs/QALY W/O hospitalization costs"
format %9.2f tCOST_NHS_W
format %9.2f tCOST_W
ttest tCOST_NHS_W, by(ARM_N)
ttest tCOST_W, by(ARM_N)
```

**SUPPLEMENTAL ANALYSIS (TABLE S2.3. MEAN COSTS PER PATIENT-YEAR AND COST-UTILITY ANALYSIS, WITHOUT HOSPITALIZATION)**

```stata
heabs tCOST_NHS_W QALY_1, res(bene) int(ARM_N) w2p (30000)
heabs tCOST_NHS_W QALY_1, res(bene) int(ARM_N) w2p (50000)
heabs tCOST_W QALY_1, res(bene) int(ARM_N) w2p (30000)
```
heabs tCOST_W QALY_1, res(bene) int(ARM_N) w2p (50000)

* SUPPLEMENTAL ANALYSIS (TABLE S3.1. DISTRIBUTION OF THE MOST RELEVANT VARIABLES BY GROUP: MEDIAN, MIN, P25, P75 AND MAX).

** In-office visits, patient/year
by ARM_N, sort: summarize n_HOSP_TRANSM, detail
** Pacemaker transmission, patient/year
by ARM_N, sort: summarize t_TRANSM, detail
** Physician time, min/patient
by ARM_N, sort: summarize PHYS_MIN, detail
** Hospitalization days
by ARM_N, sort: summarize HOSP_DAYS, detail
** Distance home/hosp (Km)
by ARM_N, sort: summarize DISTANCE, detail
** PatientsO time (travel & visits)
by ARM_N, sort: summarize PATIENT_TIME, detail

** Physician costs
by ARM_N, sort: summarize COST_DR, detail
** Consultation room costs
by ARM_N, sort: summarize COST_ROOM, detail
** Hospitalization days costs
by ARM_N, sort: summarize COST_HOSP, detail
** Ambulance transport costs
by ARM_N, sort: summarize COST_AMBUL, detail
** Total NHS costs
by ARM_N, sort: summarize tCOSTS_NHS, detail

** Patient travel costs
by ARM_N, sort: summarize COST_P_TRAVEL, detail
by ARM_N, sort: summarize COST_P_TRAV_WAIT, detail
** Other transport costs
by ARM_N, sort: summarize COST_P_OTH_TRAV, detail
** Accompanying person costs
by ARM_N, sort: summarize COST_P_ACOMP, detail
by ARM_N, sort: summarize HOSP_CONS, detail
** Total patient costs
by ARM_N, sort: summarize tCOST_PATIENT, detail

** Total (NHS + patient family) costs
by ARM_N, sort: summarize tCOSTS, detail

** Total NHS costs and total costs W/O hospitalization costs
by ARM_N, sort: summarize tCOST_NHS_W, detail
by ARM_N, sort: summarize tCOST_W, detail

** EQ5D utilities and QALYs
by ARM_N, sort: summarize EQ5D_MONTH_0, detail
by ARM_N, sort: summarize EQ5D_MONTH_1, detail
by ARM_N, sort: summarize EQ5D_MONTH_6, detail
by ARM_N, sort: summarize EQ5D_MONTH_12, detail
by ARM_N, sort: summarize QALY_1, detail

** Cost per QALY
by ARM_N, sort: summarize NHSCOST_Q1, detail
by ARM_N, sort: summarize TCOST_Q1, detail
by ARM_N, sort: summarize NHSCOSTW_Q1, detail
by ARM_N, sort: summarize TCOSTW_Q1, detail