



**Methodology:**

This study was an international, multicentre, randomised, open-label phase III, over a 12-week treatment period study, comparing single-pill fixed dose combination of Indapamide SR 1.5 mg / Amlodipine *versus* free dual therapy by Indapamide SR 1.5 mg and Amlodipine, in 150 patients with mild to moderate essential hypertension (Isolated Systolic hypertension and Systolo-diastolic hypertension), after 1 week of active run-in treatment (treatment used by the patient before the selection), or without any treatment (if not previously treated), with conditional titration based on blood pressure control. A fixed randomisation, stratified per centre was done. All patients included were proposed to participate in the HBPM part of the study.

This study was performed in strict accordance with Good Clinical Practice including the archiving of essential documents.

**Number of patients:**

Planned (office part): 150 patients (75 patients in each treatment group).

Included: 154 patients (77 patients in each treatment group).

HBPM part: 125 patients included (59 patients in the Ind/Aml group and 66 patients in the Ind + Aml group).

**Diagnosis and main criteria for inclusion:**

Men or women  $\geq 18$  years old, with confirmed mild to moderate essential uncontrolled combined systolic and diastolic hypertension or isolated systolic hypertension (defined as SBP  $\geq 140$  and  $< 180$  mmHg and DBP  $< 110$  mmHg at inclusion measured with a validated automatic device in supine position after at least 10 minutes of rest), treated more than one month before selection with any monotherapy at maximal dose, or any free or fixed-dose bi-therapy at initial dose and who in the investigators' opinion required a change in medication, either because of insufficient efficacy or poor tolerability: SBP  $\geq 140$  and  $< 180$  mmHg and DBP  $< 110$  mmHg), or patients currently non-treated for hypertension, more than 2 months without any treatment having SBP  $\geq 160$  and  $< 180$  mmHg and DBP  $< 110$  mmHg.

Results of laboratory examinations should be into the normal range and 12-lead electrocardiogram normal or without any clinically significant anomaly (Left ventricular hypertrophy authorised).

**Test drug:**

**Indapamide SR 1.5 mg/amlodipine 5 mg** (Ind/Aml) fixe dose single-pill combination (dose 1) administered orally with water as one tablet daily in morning (except on visit days where the patients had to take the treatment after blood pressure measurements and clinical examination). An uptitration was performed at W6 for non-controlled patients to the next dose of the treatment strategy: indapamide SR 1.5 mg/amlodipine 10 mg (*i.e.* dose 2).

Batch Nos: L0049043 (Ind 1.5 mg/Aml 5 mg), L0049045 (Ind 1.5 mg/Aml 10 mg).

**Comparator:**

**Indapamide SR 1.5 mg and amlodipine 5 mg** (Ind + Aml) free dual therapy administered (dose 1) orally with water as one tablet daily each one, in morning, except on visit days where the patients had to take the treatment after blood pressure measurements and clinical examination. An uptitration was performed at W6 for non-controlled patients to the next dose of the treatment strategy: indapamide SR 1.5 mg and amlodipine 10 mg (*i.e.* dose 2).

**Duration of treatment:**

**Run-in period (1 week):** The run-in period was dedicated to confirm the essential uncontrolled hypertension under patient's previous treatment or for patient not treated.

**Open-label randomised treatment (12 weeks):** one visit at W6 and W12 were performed. At visit W6, all controlled patients (defined as SBP  $< 140$  mmHg and DBP  $< 90$  mmHg) remained on the same treatment and all non-controlled patients were up-titrated to the next dose of the treatment strategy. Patients who at the W6 visit had the SBP  $\geq 180$  mmHg or DBP  $\geq 110$  mmHg (mean of the last 2 out of 3 measurements) were withdrawn from the study.

**Criteria for evaluation:****Efficacy measurements:**

OFFICE part:

*Primary efficacy criterion:*

- Supine SBP.

*Secondary criteria:*

- Supine and standing DBP.
- Standing SBP at 3 min.
- Supine Mean Blood Pressure (MBP), defined as  $MBP = 2/3 DBP + 1/3 SBP$ .
- Supine Pulse Pressure (PP), defined as  $PP = SBP - DBP$ .
- Response to the treatment defined as  $SBP < 140$  mmHg and  $DBP < 90$  mmHg and/or  $SBP$  decrease  $\geq 20$  mmHg from baseline and/or  $DBP$  decrease  $\geq 10$  mmHg from baseline.
- Normalisation of blood pressure corresponding to the percentage of patients with  $SBP < 140$  mmHg and  $DBP < 90$  mmHg.

HBPM part:

- Mean home systolic blood pressure (HSBP) over the 4 days preceding the study visit and 4 days following the visit.
- Mean home diastolic blood pressure (HDBP) over the 4 days preceding the study visit and 4 days following the visit.
- Mean morning HSBP and HDBP over the 4 days preceding the study visit and 4 days after the visit.
- Mean evening HSBP and HDBP over the 4 days preceding the study visit and 4 days after the visit.
- Mean global/morning/evening home PP and Heart Rate (HR) over the 4 days preceding the visit and 4 days after the visit.
- Weekly variation of mean, global, morning and evening HSBP, HDBP and PP between visits.
- HBPM normalisation defined as  $< 135/85$  mmHg for statistical analysis.

**Safety measurements:**

- Emergent adverse events at each visit.
- Vital signs: weight (at selection and at W12 visit), height (at selection), supine and standing blood pressure to identify hypotension and orthostatic hypotension at each visit, and heart rate at each visit.
- Laboratory test:
  - Complete laboratory examinations performed in fasting condition, at selection visit (or within 7 days after selection) and within 7 days before W12 visit: blood biochemistry (sodium, potassium, calcium, chloride, uric acid, urea, creatinine, creatinine clearance, fasting blood glucose levels, total protein, triglycerides, total cholesterol, High-Density Lipoprotein (HDL)-cholesterol, Low-Density Lipoprotein (LDL)-cholesterol, ASpartate (Amino) Transferase (ASAT), ALanine (Amino) Transferase (ALAT), Gamma-Glutamyl Transferase (GGT), alkaline phosphatase), haematology (haemoglobin, haematocrit, erythrocytes, neutrophils, basophils, eosinophils, lymphocytes, monocytes, leucocytes and platelets).
  - Simplified laboratory test after 1 week (+/- 2 days) of treatment (sodium, potassium, uric acid, creatinine and creatinine clearance, ALAT and ASAT).
- 12-lead electrocardiogram at W0 and W12 visit.

**Other measurements:**

- Patient's adherence to the treatment using the Morisky Medication Scale (MMAS-8).

**Statistical methods:****Study outcome and safety analysis:** descriptive statistics were provided.**Efficacy analysis:**

The analysis Set used for the main analysis of the primary endpoints was the **Full Analysis Set (FAS)**: based on the intention-to-treat principle, this set corresponded to randomised patients who received at least one dose of study treatment and who have at least one baseline analysable value and one post baseline analysable value for Supine SBP.

**Statistical methods (Cont'd):****Efficacy analysis (Cont'd):**

For supine SBP, control BP and response rate parameters, analyses were done on all patients of the population. For supine DBP, MBP and PP parameters, analyses were done separately on Systolo-Diastolic Hypertension (SDH) and Isolated Systolic Hypertension (ISH) subgroups.

**Primary endpoint:** office SBP. The *primary analysis* was to study the efficacy of a single-pill combination *versus* free dual therapy, after a 12-week treatment period. A between-group difference was assessed on the change of supine SBP from baseline to last post baseline value, using a single two-way analysis of covariance (ANCOVA) model over the W0-W12 period. The model included the fixed categorical effects of treatment and country and the continuous fixed covariate of baseline. The between-group estimate (standard error) and two-sided 95% Confidence Interval of the estimate were provided.

*Secondary analyses:* the between-group difference of the change from baseline to W6/W12 value of SBP was assessed with the same model used in the main analysis, and the within-group difference was assessed using Paired Student's test.

**Secondary criteria:**

- All analyses performed on the primary endpoint were carried out on all secondary quantitative parameters (Supine DBP, standing SBP and DBP at 3 min, MBP and PP).
- The between-group difference of proportions of controlled BP patients (respectively responder patients) based on last post baseline value was assessed using chi square test in W0-W12 and W0-W6 periods.
- HBPM part: all analyses performed on the primary endpoint (office SBP) were carried out on these HBPM quantitative parameters, except for daily / weekly variations of mean HSBP, HDBP and HPP. The within-group difference on change from baseline to each post-baseline value (W6 and W12) and change from W6 visit to W12, for titration effect was studied only over the 4 days preceding the study visit. The between-group difference of proportions of controlled BP patients based on last post baseline value was assessed using chi square test in W0-W12 and W0-W6 periods.

**SUMMARY - CONCLUSIONS****DISPOSITION OF PATIENTS AND ANALYSIS SETS****Disposition of patients**

Status		Ind/Aml	Ind + Aml	All
<b>Included/randomised</b>	<b>n</b>	<b>77 (100)</b>	<b>77 (100)</b>	<b>154 (100)</b>
In compliance with the protocol	n (%)	69 (89.6)	63 (81.8)	132 (85.7)
With a protocol deviation before or at inclusion	n (%)	8 (10.4)	14 (18.2)	22 (14.3)
<b>Withdrawn due to</b>	<b>n (%)</b>	<b>2 (2.6)</b>	<b>2 (2.6)</b>	<b>4 (2.6)</b>
Adverse event	n (%)	1 (1.3)	1 (1.3)	2 (1.3)
Non-medical reason	n (%)	-	1 (1.3)	1 (0.6)
Other protocol withdrawal criteria	n (%)	1	-	1 (0.6)
<b>Completed</b>	<b>n (%)</b>	<b>75 (97.4)</b>	<b>75 (97.4)</b>	<b>150 (97.4)</b>
In compliance with the protocol	n (%)	75 (97.4)	75 (97.4)	150 (97.4)
With a protocol deviation after inclusion	n (%)	-	-	-
<b>Full Analysis Set (FAS)</b>	<b>n (%)</b>	<b>77 (100)</b>	<b>77 (100)</b>	<b>154 (100)</b>
<b>Per Protocol Set (PPS)</b>	<b>n (%)*</b>	<b>74 (96.1)</b>	<b>71 (92.2)</b>	<b>145 (94.2)</b>
<b>Safety Set (SS)</b>	<b>n (%)</b>	<b>77 (100)</b>	<b>77 (100)</b>	<b>154 (100)</b>

%: expressed as percentage of the included/randomised patients

\*: expressed as percentage of the FAS

A total of 154 patients were included, with a well-balanced distribution reached (77 patients in the Ind/Aml group and 77 patients in the Ind + Aml group). Of them, 4 patients were withdrawn (2 in each treatment group), of whom half were due to adverse events. Finally, 150 patients, 97.4% of the included patients completed the study (75 in each treatment group). Overall, 22 patients, 14.3% reported protocol deviations before or at inclusion, with a lower frequency of patients affected in the Ind/Aml than Ind + Aml group (8 patients, 10.4% *versus* 14 patients, 18.2%). They were mainly in relation with the sampling form: 6 patients, 7.8% in the Ind/Aml group and 7 patients, 9.1% in the Ind + Aml group. After inclusion, one patient, 1.3% in the Ind/Aml group had one protocol deviation (blood sample not taken while the patient was withdrawn).

In the HBPM part of the study, 125 patients were included (59 patients in the Ind/Aml group and 66 patients in the Ind + Aml group).

**SUMMARY – CONCLUSIONS (Cont'd)****BASELINE CHARACTERISTICS**

Demographic and other baseline characteristics of the patients fulfilled with the selection/inclusion criteria of the study protocol. In the Randomised Set, patients were in average  $58.4 \pm 10.6$  years old, and most of them (70.1%) were between 18 and 64 years old. More than half of the patients were women (105 patients, 68.2%). BMI was on average  $28.2 \pm 2.7$  kg/m<sup>2</sup>, with 33.1% of the patients that had a BMI  $\geq 30$  kg/m<sup>2</sup>.

All patients presented at selection an essential hypertension in average for  $110.6 \pm 91.5$  months.

Most of the patients (142 patients, 92.2%) received at least one treatment for essential hypertension before entry in the study, mainly Agents acting on the renin-angiotensin system (67 patients, 87.0% *versus* 69 patients, 89.6 %, respectively), and Diuretics (21 patients, 27.3% *versus* 28 patients, 36.4%, respectively). More than half of the patients (57.0%) were on monotherapy. No relevant between-group difference was observed. Most of the patients (141 patients, 91.6%) reported a medical history other than essential arterial hypertension, mainly related to Metabolism and nutrition disorders (46 patients, 59.7% in the Ind/Aml group and 58 patients, 75.3% in the Ind + Aml group), including mainly dyslipidaemia (37 patients, 48.1% *versus* 34 patients, 44.2%, respectively). Regarding risk factors, 17.5% had smoking habit with a larger frequency reported in the Ind/Aml group than Ind + Aml group (22.1% *versus* 13.0%, respectively), and 20.1% had alcohol habit consumption, with no relevant between-group difference.

Among the 137 patients that performed an ECG at baseline, one patient in the Ind + Aml group had an ECG abnormality considered as clinically significant (left ventricular hypertrophy).

In the FAS, at baseline, the supine SBP and DBP were in average for overall patients:  $154.03 \pm 8.49$  mmHg and  $90.34 \pm 9.80$  mmHg, supine PP:  $63.69 \pm 12.40$  mmHg and supine MBP:  $111.57 \pm 7.34$  mmHg, with no relevant between group-difference. Standing SBP and DBP at 3 min were similar in both treatment groups at inclusion ( $153.1 \pm 10.9$  mmHg for standing SBP and  $91.8 \pm 10.8$  mmHg for standing DBP).

Demographic and other baseline characteristics were globally similar in the other Sets and showed same trends in patients who participated in the HBPM part.

**EXTENT OF EXPOSURE**

The global compliance (mean  $\pm$  SD) over W0-W12 was  $98.9 \pm 6.3\%$ , with similar frequency in both treatment groups, in the Randomised Set and in the FAS. All patients except one had an overall compliance between 70% and 130% (inclusive). In the same way, the MMAS-8 showed a good global compliance over W0-W12 with a mean of  $6.60 \pm 1.01$  over a maximal score of 8. No relevant between-group difference was observed for the global compliance and the MMAS-8.

In total, 96 patients, 62.3% of the randomised patients remained treated with the dose 1 during the overall study duration (45 patients, 58.4% in the Ind 1.5 mg/Aml 5 mg group and 51 patients, 66.2% in the Ind 1.5 mg + Aml 5 mg group), and 55 patients, 35.7% (30 patients, 39.0% and 25 patients, 32.5%, respectively) were up-titrated to the dose 2 (Ind 1.5 mg/Aml 10 mg, and Ind 1.5 mg + Aml 10 mg), in the Randomised Set and the FAS. In addition, 3 patients prematurely withdrawn received the dose 1 over W0-W6.

**SUMMARY - CONCLUSIONS (Cont'd)****EFFICACY RESULTS****Office part of the study****Primary efficacy endpoint: office supine systolic blood pressure**

*Primary analysis: change in the office supine SBP from baseline to the last post-baseline value at W12*

Over the W0-W12 period, the supine SBP decreased from baseline to the last post-baseline value at W12 in both treatment groups, in the FAS. The changes were similar in both treatment groups (E (SE) = 0.79 (2.03) mmHg, 95% CI = [-3.22 ; 4.79]). Similar results were obtained in the PPS.

**Office supine SBP (mmHg) - Change from baseline to last post-baseline value - Comparison between groups - Over W0-W12 period - FAS (N = 154)**

Office supine SBP (mmHg)		Ind/Aml (N = 77)	Ind + Aml (N = 77)
	n	77	77
Baseline	Mean ± SD	153.52 ± 7.84	154.54 ± 9.11
	95% CI	[151.74 ; 155.30]	[152.47 ; 156.61]
	Min ; Max	142.0 ; 171.5	140.5 ; 177.0
END W12	Mean ± SD	133.18 ± 13.51	132.73 ± 12.31
	95% CI	[130.11 ; 136.25]	[129.94 ; 135.53]
	Min ; Max	102.0 ; 171.5	107.5 ; 160.5
END W12 - Baseline	Mean ± SD	-20.34 ± 13.42	-21.81 ± 13.84
	95% CI	[-23.38 ; -17.29]	[-24.95 ; -18.67]
	Min ; Max	-45.0 ; 18.0	-58.5 ; 6.5
<i>Statistical analysis</i>			
Parametric approach with adjustment			
	E (SE) (1)	0.79 (2.03)	
	95% CI (2)	[-3.22 ; 4.79]	

*N: total number of patients in each treatment group; n: number of patients affected*

*(1) Estimate (Standard Error) of the difference in adjusted mean changes from baseline to last post-baseline value until W12 indapamide/amlodipine - indapamide + amlodipine using a General Linear Model with treatment, baseline and country as covariates*

*(2) 95% Confidence Interval of the estimate*

**Secondary analyses**

Secondary analyses showed same trends in the FAS. An important decrease was observed in the office SBP in each treatment group from baseline to last post-baseline value over each treatment period:

- W0-W6 period:
  - Ind/Aml group: -17.65 ± 12.99 mmHg (E (SE) = -17.65 (1.48) mmHg, 95% CI = [-20.60 ; -14.70])
  - Ind + Aml group: -20.46 ± 14.17 mmHg (E (SE) = -20.46 (1.62) mmHg, 95% CI = [-23.68 ; -17.24])
  - Between-group analysis: E (SE) = 2.31 (2.10) mmHg, 95% CI = [-1.85 ; 6.46]
- W0-W12 period:
  - Ind/Aml group: -20.34 ± 13.42 (E (SE) = -20.34 (1.53) mmHg, 95% CI = [-23.38 ; -17.29])
  - Ind+Aml group: -21.81 ± 13.84 (E (SE) = -21.81 (1.58) mmHg, 95% CI = [-24.95 ; -18.67])

Over the W6-W12 period, additional decreases were observed in each treatment group (-2.76 ± 13.07 mmHg in the Ind/Aml group *versus* -1.36 ± 12.24 mmHg in the Ind + Aml group).

When considering only patients not controlled at W6 (n = 55 patients), the evaluation of the up-titration efficiency showed that the titration allowed an important decrease over W6-W12:

- Ind/Aml group: -10.85 ± 9.20 mmHg (E (SE) = -10.85 (1.68) mmHg, 95% CI = [-14.29 ; -7.41])
- Ind + Aml group: -9.86 ± 10.33 mmHg (E (SE) = -9.86 (2.07) mmHg, 95% CI = [-14.13 ; -5.59]).

**SUMMARY - CONCLUSIONS (Cont'd)****EFFICACY RESULTS (Cont'd)****Secondary efficacy endpoints**

Results of the secondary efficacy endpoints were in the same line than those described for the primary efficacy endpoint.

**- Office supine DBP**

Over the W0-W12 period, in both treatment groups an important decrease in the office supine DBP was observed in both treatment groups from baseline to the last post-baseline value. The decrease was similar in both treatment groups, and as expected, marked decreases were detected only in patients with a systolic-diastolic hypertension at inclusion:

- FAS SDH:  $-15.18 \pm 9.58$  mmHg in the Ind/Aml group *versus*  $-11.73 \pm 8.14$  mmHg in the Ind + Aml group (E (SE) =  $-3.37$  (1.77) mmHg, 95% CI =  $[-6.89 ; 0.16]$ ).
- FAS ISH:  $-5.32 \pm 9.10$  mmHg *versus*  $-6.40 \pm 7.40$  mmHg, respectively (E (SE) =  $0.71$  (1.91) mmHg, 95% CI =  $[-3.11 ; 4.53]$ ).

**- Office standing SBP/DBP at 3 min**

The decrease in the office standing SBP/DBP at 3 min was similar in both treatment groups over W0-W12:

- SBP:  $-19.6 \pm 15.3$  mmHg *versus*  $-21.9 \pm 16.4$  mmHg, respectively (E (SE) =  $1.50$  (2.31) mmHg, 95% CI =  $[-3.07 ; 6.07]$ ).
- DBP :
  - FAS SDH:  $-12.8 \pm 10.7$  mmHg *versus*  $-10.7 \pm 9.4$  mmHg, respectively (E (SE) =  $-2.42$  (1.95) mmHg, 95% CI =  $[-6.31 ; 1.46]$ ).
  - FAS ISH:  $-5.1 \pm 10.5$  mmHg *versus*  $-8.8 \pm 11.5$  mmHg, respectively (E (SE) =  $1.80$  (2.36) mmHg, 95% CI =  $[-2.91 ; 6.52]$ ).

**- Office supine Mean BP (MBP)**

In the same way, a large decrease in the office supine MBP was observed in SDH patients:

- FAS SDH:  $-17.21 \pm 10.26$  mmHg *versus*  $-14.98 \pm 8.80$  mmHg, respectively (E (SE) =  $-2.61$  (1.86) mmHg, 95% CI =  $[-6.30 ; 1.08]$ ).
- FAS ISH:  $-10.02 \pm 8.99$  mmHg in the Ind/Aml group *versus*  $-11.70 \pm 7.82$  mmHg in the Ind + Aml group (E (SE) =  $1.48$  (2.04) mmHg, 95% CI =  $[-2.60 ; 5.57]$ ).

**- Office supine pulse pressure (PP)**

On the contrary, the office supine PP, which is calculated as the office supine SBP minus supine DBP, showed a greater decrease in ISH than SDH patients:

- FAS SDH:  $-6.05 \pm 9.93$  mmHg *versus*  $-9.75 \pm 10.87$  mmHg, respectively (E (SE) =  $2.38$  (1.70) mmHg, 95% CI =  $[-1.01 ; 5.77]$ ).
- FAS ISH:  $-14.11 \pm 11.51$  mmHg *versus*  $-15.89 \pm 14.64$  mmHg, respectively (E (SE) =  $2.09$  (3.01) mmHg, 95% CI =  $[-3.91 ; 8.10]$ ).

**- Blood pressure control and response to treatment**

The blood pressure control (defined by the percentage of patients with SBP < 140 mmHg and DBP < 90 mmHg) was reached by a large part of the patients at the last post-baseline value at W12, in each treatment group: 68.8% in the Ind/Aml group *versus* 63.6% in the Ind + Aml group (E (SE) =  $5.19$  (7.61%), 95% CI =  $[-9.72 ; 20.11]$ ).

In the same way, most of the patients responded to treatment at W12 (defined as the percentage of patients that reached a SBP < 140 mmHg and DBP < 90 mmHg, or SBP decrease  $\geq 20$  mmHg from baseline, or DBP decrease  $\geq 10$  mmHg from baseline): 75.3% in each treatment group, E (SE) =  $0.00$  (6.95) %, 95% CI =  $[-13.62 ; 13.62]$ .

**SUMMARY - CONCLUSIONS (Cont'd)****SAFETY RESULTS****- Emergent adverse events**

The Table hereafter summarises the main results of adverse events in the Safety Set.

**Overall summary for adverse events over the overall study in the Safety Set**

		<b>Ind/Aml (N = 77)</b>	<b>Ind + Aml (N = 77)</b>
Patients having reported at least one:			
Emergent adverse event	n (%)	18 (23.4)	14 (18.2)
Treatment-related emergent adverse event	n (%)	8 (10.4)	6 (7.8)
Emergent hypotension	n (%)	1 (1.3)	1 (1.3)
Emergent orthostatic hypotension	n (%)	1 (1.3)	1 (1.3)
Serious emergent adverse event	n (%)	3 (2.6)	2 (2.6)
Treatment-related serious adverse event	n (%)	-	-
Patients with treatment withdrawal due to			
Emergent adverse event	n (%)	1 (1.3)	1 (1.3)
Emergent serious adverse event	n (%)	-	-
Treatment-related emergent adverse event	n (%)	1 (1.3)	1 (1.3)
Treatment-related emergent serious adverse event	n (%)	-	-
Patients who died			
	n (%)	-	-

*N*: Number of patients by group

*n*: number of affected patients

%: ( $n \times 100 / N$ )

Emergent adverse events (EAEs) (considering all treatment doses received during the study) were reported with similar frequency in both treatment groups: 18/77 patients, 23.4% in the Ind/Aml group *versus* 14/77 patients, 18.2% in the Ind + Aml group, in the Safety Set. The SOCs most frequently represented were:

- In the Ind/Aml group:
  - Investigations: 9/77 patients, 11.7% in the Ind/Aml group *versus* 3/77 patients, 3.9% in the Ind + Aml group.
  - Infections and infestations: 8/77 patients, 10.4% *versus* 5/77 patients, 6.5%, respectively.
- In the Ind + Aml group:
  - Infections and infestations (see above).
  - Metabolism and nutrition disorders: 2/77 patients, 2.6% *versus* 5/77 patients, 6.5%, respectively.

Most frequently reported EAEs (in more than 2 patients in any treatment group) on the overall study period were:

- In the Ind/Aml group:
  - Glomerular filtration rate decreased (4/77 patients, 5.2% *versus* 1/77 patients, 1.3%, respectively), and blood uric acid increased and respiratory tract infection (3/77 patients, 3.9% each preferred term *versus* none in the Ind/Aml group),
  - In the Ind + Aml group: hyperuricaemia, 5/77 patients, 6.5% (*versus* none in the Ind/Aml group).

The other EAEs (oedema peripheral, hypokalaemia, hypotension) in patients treated with indapamide and amlodipine listed in the Summary of Product Characteristics were reported in few patients during the study:

- Oedema peripheral in 2 patients in the Ind/Aml group and 1 patient in the Ind+Aml group (of which one patient in the Ind/Aml group was treated at dose 2),
- Hypokalaemia in one patient in the Ind/Aml group only (at dose 2),
- Hypotension orthostatic in one patient in each treatment group (at dose 1). These orthostatic hypotensions were not serious, resolved, and the investigator specified that they were asymptomatic. One of them (in the Ind/Aml group) was considered as treatment-related by the investigator.

Most of the EAEs were rated mild (76.9%) and none was severe.

**SUMMARY - CONCLUSIONS (Cont'd)****SAFETY RESULTS (Cont'd)**

Treatment-related EAEs were reported in 8/77 patients, 10.4% in the Ind/Aml group *versus* 6/77 patients, 7.8% in the Ind + Aml group. They included mainly glomerular filtration rate decreased in the Ind/Aml group (3/77 patients, 3.9% *versus* 1/77 patient, 1.3%, in the Ind + Aml group), and hyperuricaemia in the Ind + Aml group (3/77 patients, 3.9% only reported in the Ind + Aml group). None of the other treatment-related EAEs were reported in more than 2 patients. None of the treatment-related EAEs was serious, or led to study drug withdrawal.

Few EAEs, all not-serious, led to patient's treatment withdrawal in 1/77 patients in the Ind/Aml group (alanine aminotransferase increased and aspartate aminotransferase increased, while the patient received the dose 1, *i.e.* Ind 1.5 mg/Aml 5 mg) and 1/77 patients in the Ind+Aml group (muscle spasms while the patient received the dose 2, *i.e.* Ind 1.5 mg+Aml 10 mg). All these EAEs were considered as treatment-related and were resolved.

Most of the EAEs (60.6%) recovered or were recovering in the Ind/Aml group, whereas 47.4% of the EAEs recovered or were recovering in the Ind + Aml group.

Over the overall study period, 5/154 patients, 3.2% reported 7 serious EAEs (including the Sponsor's upgrade), that were all emergent: 3/77 patients, 3.9% in the Ind/Aml group reported 4 serious AEs (pneumonia, hypersensitivity, and in one patient: dyspnoea and platelet count decreased), and 2/77 patients, 2.6% in the Ind + Aml group reported 3 serious AEs (pyelonephritis acute in one patient and one patient with both long QT syndrome and renal impairment). None of these serious EAEs was considered as treatment-related by the investigator or led to study withdrawal

None of the patients died during the study.

Regarding the analysis of the EAEs in patients that received dose 1 and those that received dose 2, similar safety profiles were obtained.

**Laboratory tests**

Neither clinically relevant change over time nor relevant between-group difference was observed for biochemistry and haematological parameters, in the Safety Set. Few PCSAs values for biochemistry were reported in both treatment groups. Most frequent PCSAs were detected for LDL cholesterol (high value) in 5 patients, 6.7% in the Ind/Aml group *versus* 3 patients, 4.0%, in the Ind + Aml group, and creatinine Clearance (Cockroft formula) in 4 patients, 5.2% *versus* 5 patients, 6.5%, respectively. The other PCSAs (high glucose, ALAT, and GGT) affected one patient each in the Ind/Aml group. Among the PCSAs detected, adverse events were reported for glucose (high value) in one patient in the Ind/Aml group (not serious, not treatment-related, not resolved), ALAT (high value) in one patient in the Ind/ Aml group (treatment-related, and resolved), and GGT (high value) in one patient in the Ind/Aml group (not treatment-related, and not resolved). For haematology, PCSA low value was reached for platelet in one patient in the Ind/Aml group and PCSA high value for eosinophils in one patient in the Ind + Aml group.

**Other safety evaluation**

For **vital signs** neither relevant change over time nor between-group difference was observed.

Emergent **calculated orthostatic hypotension** (according to a mathematic rule as a reduction of at least 20 mmHg for SBP and/or 10 mmHg for DBP at 1 and 3 minutes after standing-up compared to supine position, detected at post-baseline visit but not present at baseline) were detected in 2 patients, 2.6% in the Ind/Aml group (one at W6 and one at W12) *versus* 1 patient, 1.3% in the Ind + Aml group (at W12).

One **ECG abnormality** was considered as clinically significant in one patient in each treatment group at W12 and reported as adverse event (hypokalaemia considered by the investigator as consistent with repolarisation changes, with no clinical manifestation in the Ind/Aml group and long QT syndrome, without any clinical symptoms in the Ind + Aml group).

**CONCLUSION**

This international open Phase III study, conducted in 154 patients, aimed to demonstrate the effect of the fixed-dose Indapamide SR /Amlodipine in single-pill *versus* free dual therapy at the same dose, in lowering office supine systolic blood pressure, in patients with essential uncontrolled hypertension (previously treated or not). Over 12-week of treatment, a large decrease in the office supine SBP was obtained, similar in both treatment groups. A large decrease was already observed at 6 weeks of treatment. The titration, performed in patients not controlled at W6, allowed an important decrease on the office supine SBP. At week 12, most of the patients in both treatment groups had an office supine SBP controlled (68.8% in the Ind/Aml group and 63.6% in the Ind+Aml group) and a positive response to treatment for antihypertensive therapy (75.3% in each treatment group). No relevant between-group difference was observed.

Secondary efficacy criteria yielded similar trends.

Regarding safety, no unexpected adverse event was reported and the study showed no concern regarding the combination of indapamide and amlodipine. The safety was similar in the two treatment groups. The expected EAEs with indapamine and amlodipine (peripheral oedema, orthostatic hypotension, and hypokalaemia) were reported in few patients and remained low even with the highest dose.

Both, the single-pill combination or free dual therapy were efficient and well tolerated and their safety profiles were in accordance with the known Summary of the Product Characteristics.

**Date of the report:** 24 September 2015

**Version of the report:** Final version