# Comparaison of the cardiovascular complications in the hypertensive black versus white populations of the oasis of the Algerian Sahara. 

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## OBJECTIVE:

To compare morphometric and hemodynamic profile, and cardiovascular complication $s$ of the black population of Algerian Sahara with that of the white population of the same oasis.

## DESIGN AND METHODE:

656 black and 758 white subj ects of the two sexes, aged 40 and over, were re-examined after 6 years of decline, in terms of developments of myocardial infarction, heart failure, stroke, and the number of hospitalizations and mortality.

The study consisted of a que tionnaire focused on civil stat us, target organ damage, the number of hospitalization and mortality, supplemented by a clinical examination including morphometry, measurement of the arterial pressure with validated electronic device (OMRON 705CP).

Laboratory tests sought a carbohydrate and lipid metabolic
disorder. In case of death, a collection of the cause of death was made after consulting the medical records in case of death in hospital, and family survey for death at home or elsewhere.

## RESULTS:

$58 \%$ of male and $46 \%$ of female subjects were included, with a mean age of $54.5 \pm 12$ years. For the overall population, mean systolic blood pressure was $150 \pm 25 \mathrm{mmHg}$, and diastolic $88 \pm 13 \mathrm{mmHg}$.

The prevalence of hypertension was significantly higher among blacks than whites, $61.3 \%$ versus $53.4 \%$; with a longitudinal incidence of । 8.6\% among blacks versus 12.4\% for whites.

Among blacks, the incidence of stroke, myocardial infarction and heart failure was respectively $5.8 \%, 3.4 \%$ and $2.3 \%$.

In hypertensive patients, the mortality rate was significantly
higher among blacks, 14.5\%, versus 6\% for whites, regardless of gender.

For the overall hypertensive population, the blood pressure goal (<140 and / or 90 mmHg ) was achieved only 18\% of cases.

## CONCLUSION :

In the black population of the Oasis of the Algerian Sahara, arterial hypertension is highly prevalent, with blood pressure level significantly higher than in the white population.

Stroke is its dominant complication, particularly among women. Specialized care faci lities must be consistent in place for the management of these patients.

