Practice report of a family doctor in vocational training in a Brazilian Alagoas semi-arid area.

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Where, who, what

A team; one GP in first year vocational training, one nurse, two nursing assistants, three community health agents and one administrative assistant

Primary Care Unit n°8, which covers 10 small villages. Villages are 25 to 30 km long. 10 patients a day (20 in periods of drought)

Lack of basic material such as pediatric scale, lack of infrastructure, illiteracy and poverty of the population.

Teotônio Vilela, a municipality of the state of Alagoas, in northeast Brazil, in a zone of extreme poverty (level 7, WHO)

The team organizes sessions of health education following Paulo Freire principles

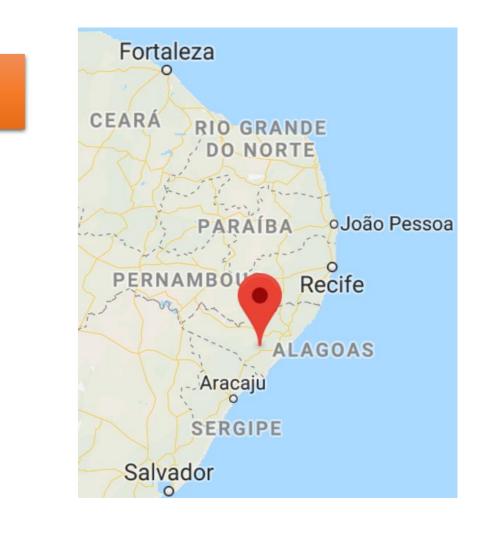






The vocational training activities of a GP in the Mais Médicos (More Doctors) Program







In 1994 the Family Health Strategy was implanted by the Brazilian Unified Health System (SUS) as the basis of its Primary Care public service. The lack of interest of the medical professionals in working in remote areas practically drove the program to bankruptcy. Shortage of manpower led to the launch of the Mais Médicos (More Doctors Program) in 2013 based on three strategic fronts: i) new medical schools; ii) investments in the infrastructure of Primary Healthcare Units; iii) allocation of Brazilian and foreign doctors [1]. The first author, trained in Universidad Franz Tamayo, Cochabamba, Bolivia, after working for several years as a dentist in Brazil, is in first year vocational training in rural medicine in Teotônio Vilela, a municipality of the state of Alagoas. This work began with the desire to portray the daily life, difficulties and needs observed during medical care in a rural area.

The first author acts strongly in health education and promotion, using the possible resources to work with the issues related to predominant illiteracy, seeking to educate the community on overmedicalization, self-medication, environmental and body hygiene, abandonment or irregularity of treatment, inadequate nutrient intake etc. The total rural population under our care is around 560 people who live either in the villages or in smaller and more isolated groups of families. Some of them are in rural properties of landowners' farms. Services to these communities are scheduled so that we can visit each family every two weeks.



Methods: Factual observation of the contacts with the population using CIAP-2 [3] to describe the clinical activities and Q-Codes [4], a new tool to describe the non-clinical situations at stake during the patient doctor encounters and activities

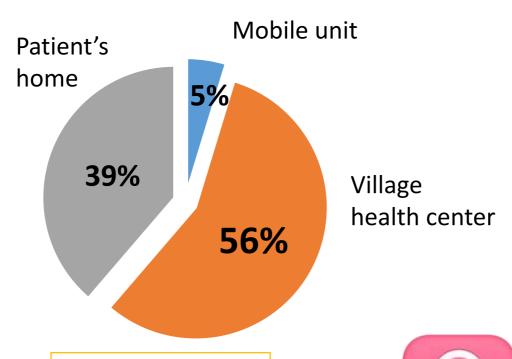
Data on 403 patients on 675 seen in two months (aug. Sept 2019)

Period: Aug-Sept 2019

- # contacts in 2 months: 675
- # patients in 2 months: 406
- # new patients in 2 months: 2%
- # mean contacts: 20 /day
- # places of the settings of encounter: 9
- # home visit : 134/months
- # km to reach the patients: 960 km/months
- # health education groups : 4

Doctor life

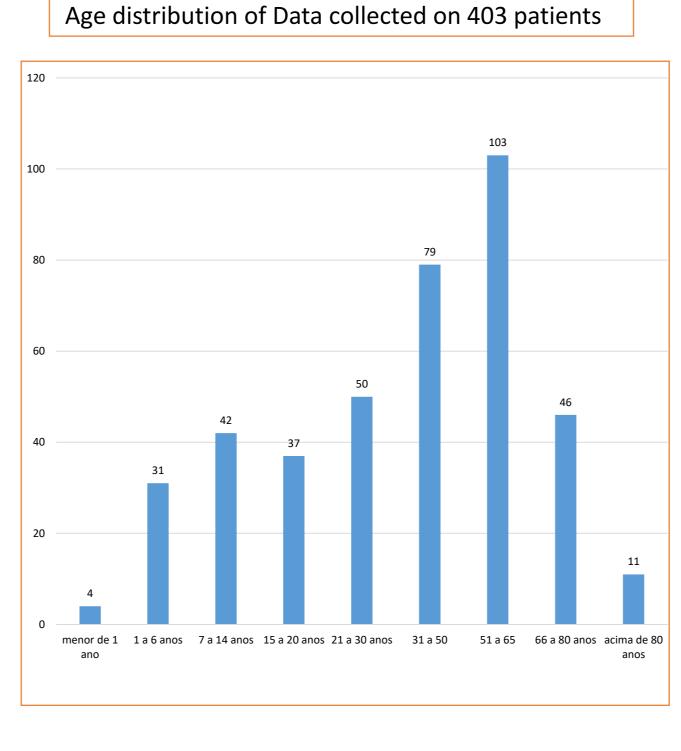
- # of sleep hours; 6h/night
- # km from home to the working place: 3.136 km/months

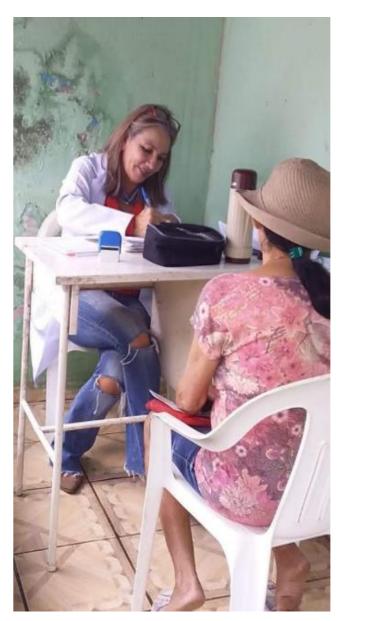


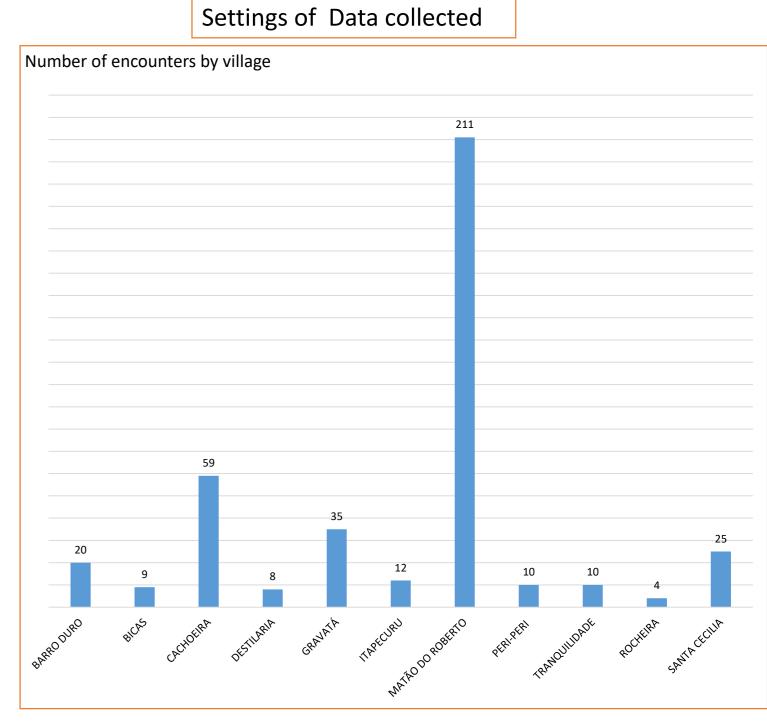
Places of contact



Names of the health education groups

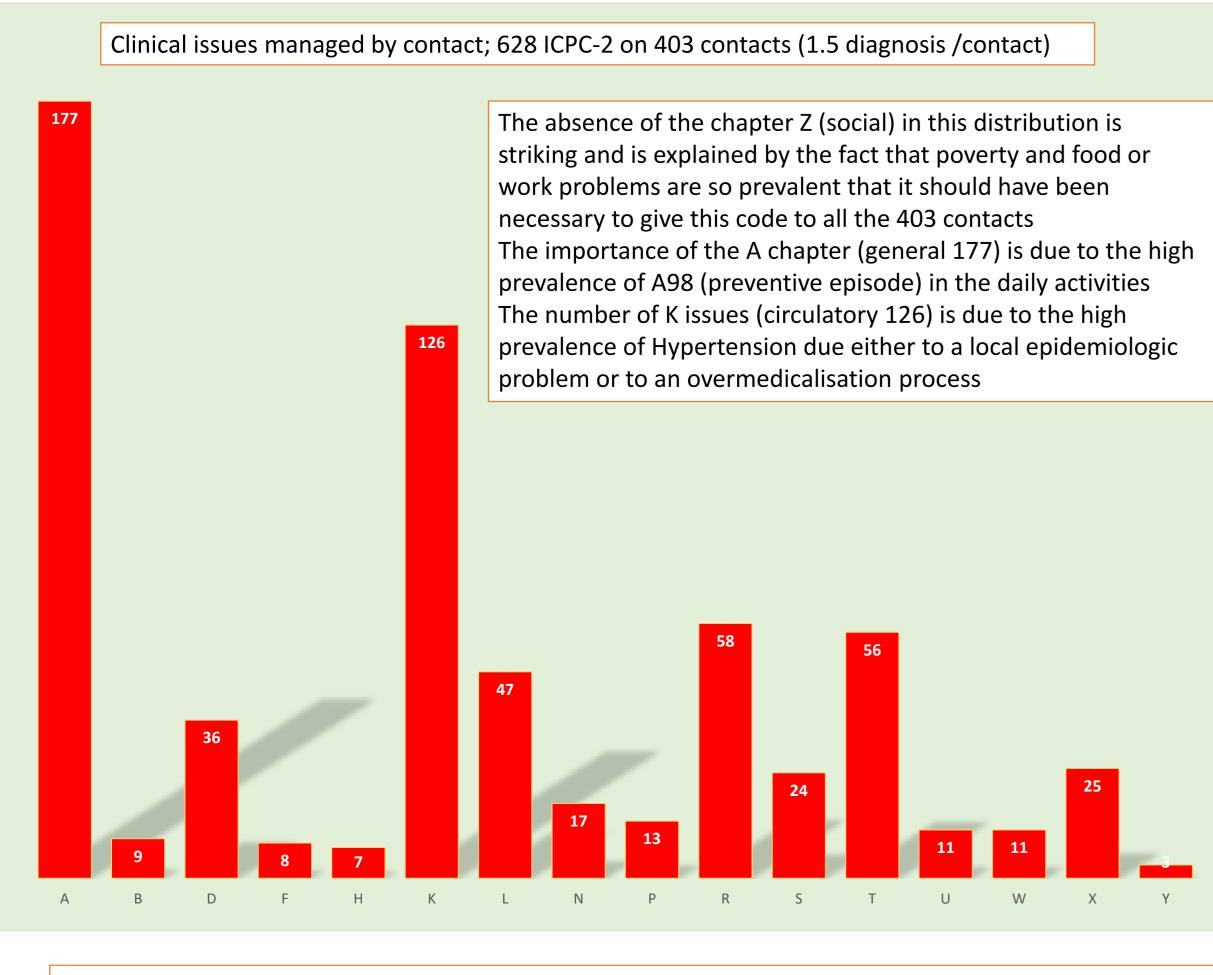


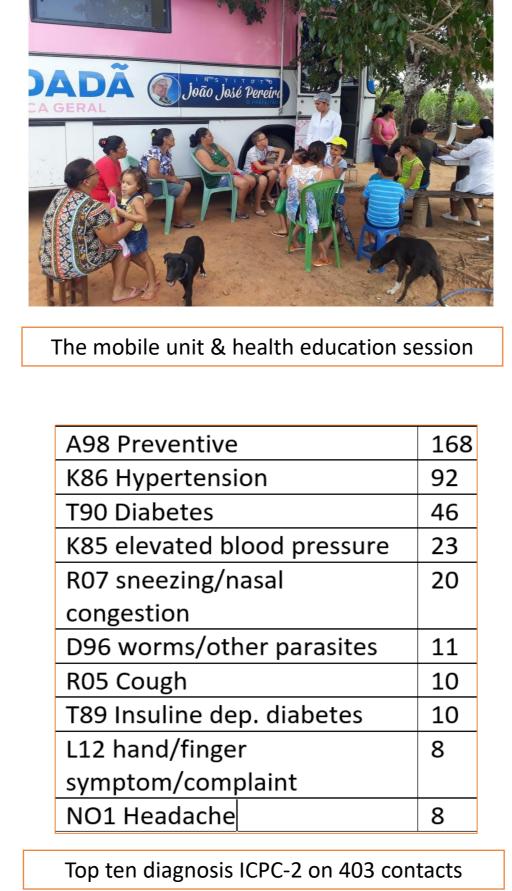


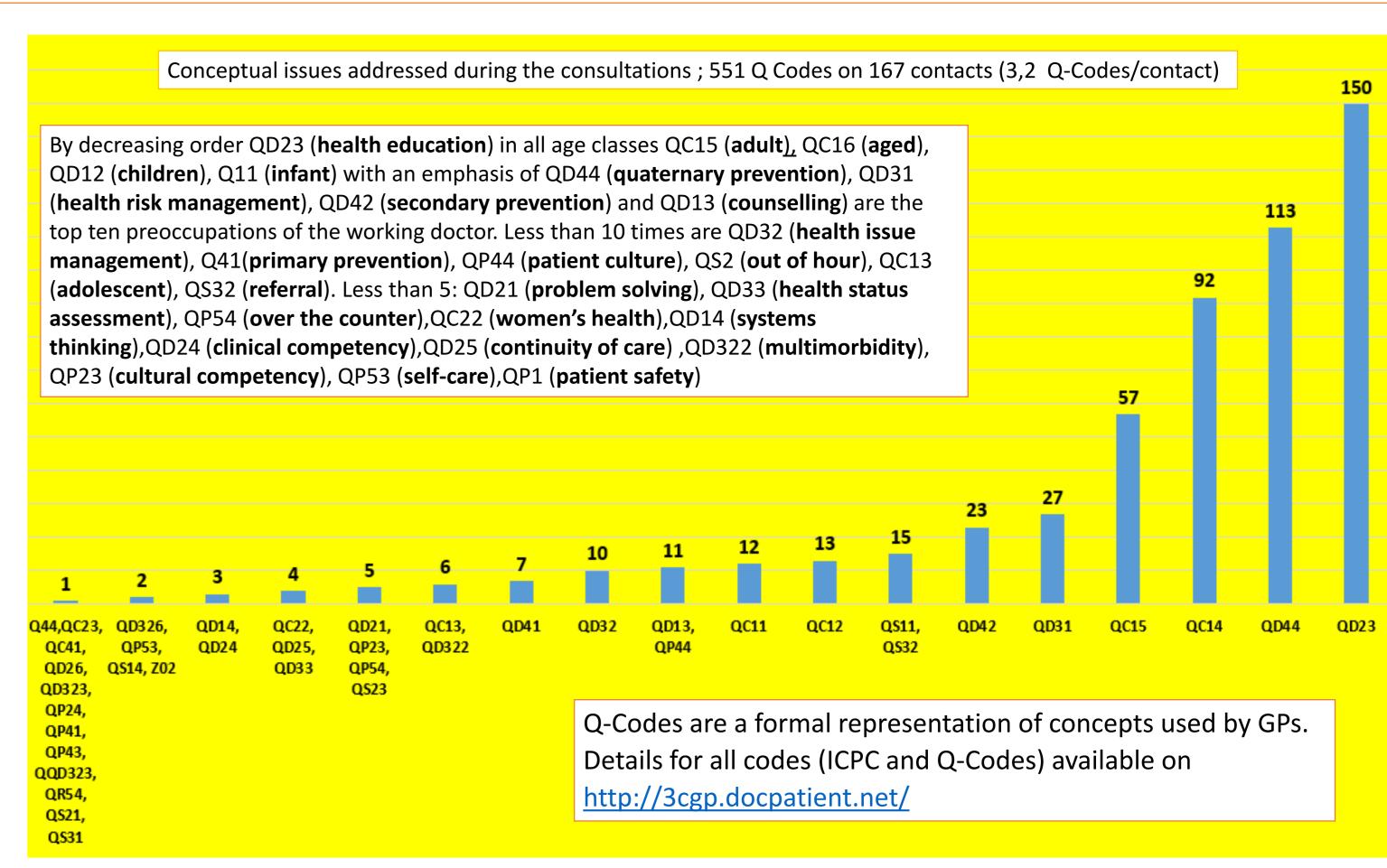


Data collected shows this doctor's daily activities during two months, focusing on the variety of the problems addressed are listed coded by ICPC-2. The special knowledge needed to develop the activity of family doctors is pointed by the use of Q-Codes, showing the various concepts addressed and about which the GP has to be knowledgeable. The importance of A98 (177 preventive episode) associates with QD23 (150 health education) and along with the number of collective health education sessions highlight the willingness of the doctor to transfer knowledge to the population. A community health education session is usually held at the beginning of each consultation session.

Home visits (39%) allow for the observation of health problems that could only be reduced with home health education or even collective meetings. They also make possible the uncover of factors involving social determinants of health and family relations that generate and/or perpetuate illness and disease. Mobile unit is a vehicle specially designed to serve as an outpatient consultation but it is little used (5% of contacts). It is interesting to observe the number of contacts related to quaternary prevention (QD44), since more than half of the contacts had addressed this subject.







The study suffers from several limits. The first author is alone on the spot. The difficulties due to isolation and lack of infrastructure, internet, cellular phone signal, a professional support network, conditions to meet physical needs (eating, drinking, using the toilet), shorten the time available to care for all families and hinders the record with CIAP-2 and Q-Codes (which already overlaps the mandatory administrative work for the Ministry of Health). Reproducibility and accuracy of data could thus be questioned. It has not been possible to collect data on treatments but basic drugs are generally available for free. The working conditions and the general lack of accessibility of Primary care are surprising and are a call to invest massively in health infrastructures and manpower.



This study has been conducted by EH, working as doctor on the spot, with the help of MJ (in Charleroi, Belgium) and JH (in Rio de Janeiro, Brazil). This exchange by Internet (Mail, WhatsApp) highlights the immense possibilities of electronic communications in vocational training and teaching [5]

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