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**Implementation of GoogleMap API to Geo-reference Patients with Lupus Nephritis**

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**Abstract:**

**Introduction:** the geographical information systems forms an important tool in the epidemiological monitoring and studies because they group the medical information with geographical, environmental and socio-economics data, between others, that allows a sooner detection of epidemical outbreaks and to make decisions according to the geographical context  
**Objective:** implement and develop a modified API of Google Map that geo-references patients with lupus nephritis (LN) using the Google Maps link with the information found in NEFRORED.

**Methods:** patients with LN included in the software tool NEFRORED. A code was created in PHP language that stores and calculate the latitude and longitude of the patients address. This was included in the Googlemap API code line that calculates the size of the display screen. The command line was modified to generate an XML archive with the information to geo-reference.

**Results:** a map was generated with the space position of all patients with LN gathered in the NEFRORED platform using Googlemaps. Equally it was possible to identify patients using the information to geo-reference.

**Conclusions:** Googlemaps is appropriate to geo-reference with a high rate of precision patients with LN using high quality images. Googlemap tool allows to generate updated maps with the distribution and location of LN patients automatically.

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