**Supplementary Script for search strategy to raise cost parameters for Chagas Disease in six Latin American Countries**

The main challenge in extending the model estimated for Brazil to other Latin American countries lies in the scarcity and heterogeneity of data on the costs and utilization of procedures and healthcare services related to ChD. A Python script was developed to automate data retrieval from Google Scholar. Utilizing the SerpAPI interface, the script performed iterative queries based on country-specific search terms, extracting metadata for the first 210 results. The retrieved data were then parsed, standardized, and compiled into a Microsoft Excel spreadsheet (File S2). The articles were independently evaluated by five researchers (AS, PEFB, NAJ, HB and AAS). The search yielded a limited number of parameters, which were not comparable across countries. Furthermore, most of the studies were conducted in the 1990s and no longer reflect current clinical practices or guideline-driven approaches for CCD.

**Python Script**

import serpapi

import pandas as pd

api = 'Insert your SerpAPI key'

def search\_google\_scholar(engine: str, api\_key: str, query: str, search\_size: int):

params = {

"engine": engine,

"q": query,

"api\_key": api\_key,

"start": 0

}

article\_results = []

count = 0

articles\_is\_present = True

while articles\_is\_present:

search = serpapi.search(params)

results = search.as\_dict()

for article in results['organic\_results']:

title = article["title"]

try:

link = article["link"]

except:

link = 'NA'

authors\_year = article["publication\_info"]['summary']

article\_results.append({

"title": title,

"link": link,

"authors\_year": authors\_year

})

count += 10

if "next" in results.get("serpapi\_pagination", []) and len(article\_results) <= search\_size:

params['start'] = count

else:

articles\_is\_present = False

df = pd.DataFrame({'author': [],

'link':[],

'title': [],

'year': []})

for article in article\_results:

try:

authors = article['authors\_year'].split(' - ')[0]

except:

authors = 'NA'

try:

year\_1 = article['authors\_year'].split(' - ')[1]

year\_2 = year\_1.split(', ')[1]

year = year\_2.split(' -')[0]

except:

year =' NA'

article['author'] = authors

article['year'] = year

article.pop('authors\_year')

article = pd.DataFrame(article,index=[0])

df = pd.concat([df, article], ignore\_index=True)

return df

argentina = search\_google\_scholar(engine = 'google\_scholar', api\_key = api, query = "('Chagas disease' AND 'Argentina' AND 'cost')", search\_size = 190)

bolivia = search\_google\_scholar(engine = 'google\_scholar', api\_key = api, query = "('Chagas disease' AND 'Bolivia' AND 'cost')", search\_size = 190)

colombia = search\_google\_scholar(engine = 'google\_scholar', api\_key = api, query = "('Chagas disease' AND 'Colombia' AND 'cost')", search\_size = 190)

venezuela = search\_google\_scholar(engine = 'google\_scholar', api\_key = api, query = "('Chagas disease' AND 'Venezuela' AND 'cost')", search\_size = 190)

mexico = search\_google\_scholar(engine = 'google\_scholar', api\_key = api, query = "('Chagas disease' AND 'Mexico' AND 'cost')", search\_size = 200)

peru = search\_google\_scholar(engine = 'google\_scholar', api\_key = api, query = "('Chagas disease' AND 'Peru' AND 'cost')", search\_size = 200)

with pd.ExcelWriter('C:/Users/hbrac/Downloads/resultados\_google.xlsx') as writer:

argentina.to\_excel(writer, sheet\_name='Argentina', index = False)

bolivia.to\_excel(writer, sheet\_name='Bolivia', index = False)

colombia.to\_excel(writer, sheet\_name='Colombia', index = False)

mexico.to\_excel(writer, sheet\_name='Mexico', index = False)

peru.to\_excel(writer, sheet\_name='Peru', index = False)

venezuela.to\_excel(writer, sheet\_name='Venezuela', index = False)