#### Guiding better decisions

# **<u><b>IIII**</u> **DEMANDA HEALTH** Diagnosing market trends

May 2021

# How to conduct MR for pharma industry in Brazil





### **Macro Scenario**

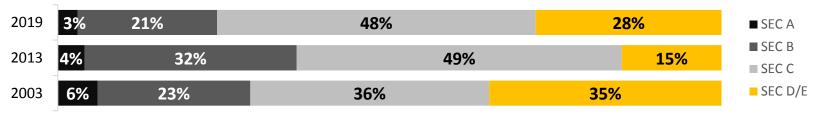


- Population distribution by macro-region
- 6th largest country in population with more than 213,000,000 individuals
- Its population is unevenly distributed among macro-regions
- It is predominantly urban: 84,72% living in cities
- It is a young country and its population is aging... the elderly make up ~15% of the population
- Life expectancy: 77 years old
- In 50 years the average Brazilian family size has shrank, from 5,2 to 1,7 children
- Population growth rate is 0.8% a year
- Brazil is the 12<sup>th</sup> largest economy in terms of GDP (IFM)
- Per capita annual GDP: US\$8.717,19 (World Bank)



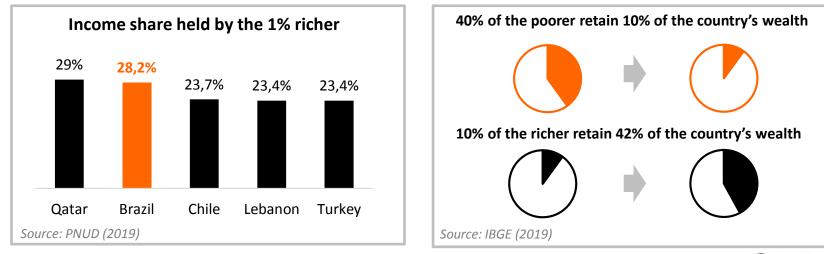
### **Macro Scenario**

#### **Social Economic Class**



Source: ABEP (2019) Criterio Brasil - ABEP

#### **Strong Social Inequality**

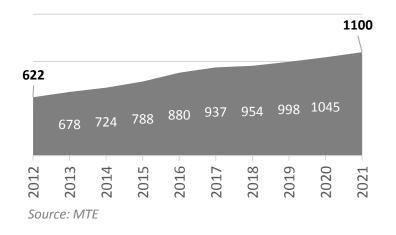




### **Economic data in Brazil's scenario**

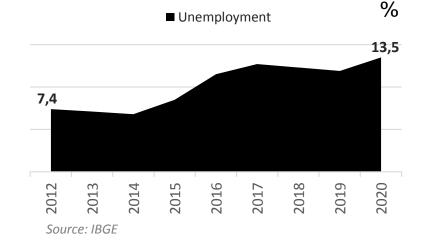
#### Minimum Wage (R\$)

#### Unemployment



Country	Tax revenue (% of GDP)
Sweden	42,9
United States	24,5
United Kingdom	33,0
Germany	38,8
Brazil	33,1

Source: OECD (2019)

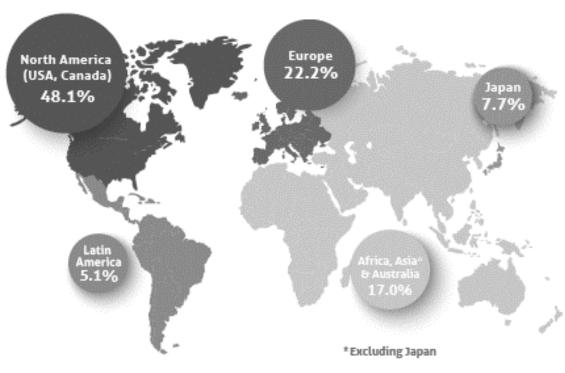


- The minimum wage has increased 76,8% from 2012 to 2021.
- Unemployment rate has increased in 82,4%.
- Taxes are similar to those of developed countries



### **Pharmaceutical Market in Brazil**





In \$ of sales

- Brazil has the largest pharmaceutical market in LATAM.
- Brazil made over R\$ 100bi in sales in 2019, with a 11,4% growth compared to 2018.
- With 2% of the world sales, Brazil is the 7<sup>th</sup> largest pharmaceutical market. The country is projected to be the 5<sup>th</sup> in 2023.
- 249 pharmaceutical laboratories:
   59% with domestic capital and 41% international.

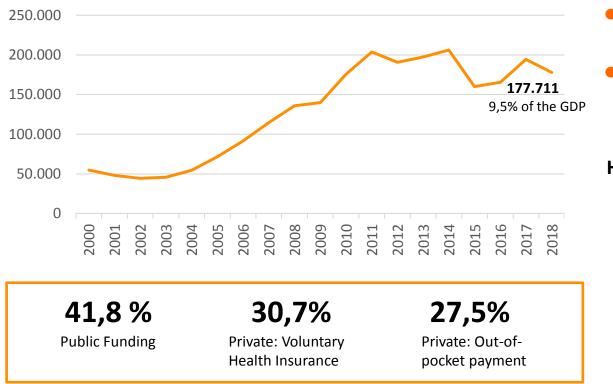
• Almost 100,000 direct jobs.



### **Healthcare In Brazil**



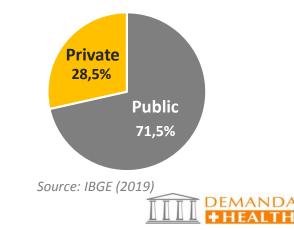
in billion current US\$



#### The Public Healthcare System is stretched financially:

- 42% of all healthcare spending comes from the public budget
- Almost ¾ of the population depend on it

#### Health Care Coverage in Brazil



Source: WHO

## **A Single Healthcare System - SUS**



- universality of service
- service equality
- free distribution of medicine
- shortage of doctors in the public service
- sluggish service
- long wait lists for appointment with specialists



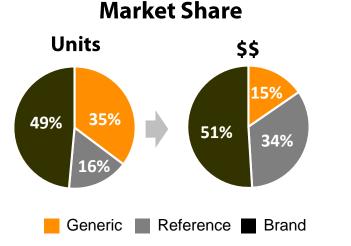
#### 'Farmácia Popular'

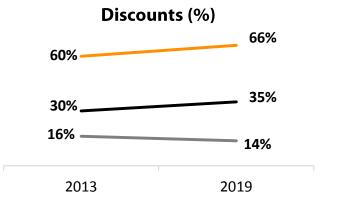
Extend access to medication for the most common diseases among the population.

- more than 30,000 participating pharmacies, including both public and private
- 20 million Brazilians benefits
- 'Saúde Não Tem Preço' (Health has no price): free distribution of 'basic' medication asthma, hypertension and diabetes.



### Generics





It started in 2000, it has been **21 years** of constant adaptations and changes on the design of the market share distribution.

medications at lower cost"

"To ensure the overall population access to quality

- The local generic industry is the largest Latin America.
- Since 2000, writing the name of the active principle/ substance on the prescription is mandatory for the public practice (SUS). At the private practice, it is up to the doctor to decide
- **90 manufacturers** offering generics in 2021, and nearly **4 thousand drugs registered.**
- 15 companies are responsible for more than 82% of the Brazilian generic market .
  - **15 of the 20 most prescribed drugs are generic** and they are available as an option to treat more than 90% of known diseases.





## **Public Healthcare Programs**

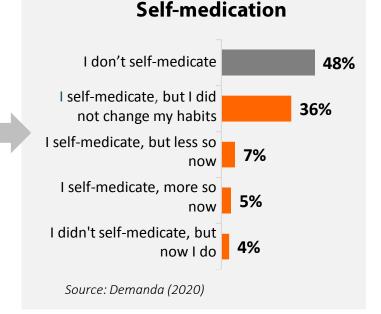
- Farmácia Popular: medications at lower prices
- Disease prevention approach
- Fighting Dengue
- Basic healthcare units: service decentralization.
- Organ donation
- Emergency mobile care
- Mortality rate reduction
- Cancer control program
- Smoking control program
- Vaccination campaigns

- Programa Mais Médicos: takes physicians to regions where there is a shortage or absence of these professionals.
- Home care for people with low mobility
- Mental Health care
- Telemedicine
- Safe access to medicinal plants and herbal medicines
- Tax exemption for top philanthropic hospitals
- Human milk banks
- Prenatal care



# **Brazilian pharmaceut**ical market

- Medication advertising Rx is forbidden in Brazil
- Prescription guidelines exist, but are not always followed
- High self-medication rate: purchase occurs without prescription, except for state-controlled medications.
- Drugstore attendant plays an active role in recommending medication and switching the prescription





#### In this scenario, Primary Research is essential for better understanding of:

- prescription behavior
- consumption dynamics

#### And to

make accurate sales predictions



### Secondary data sources

#### to be complemented !

#### Lack of information

- Treatment flow for chronic diseases over time
  - cancer, rheumatoid arthritis, diabetes, AF, etc.

**Patient Record** 

**Patient Diary** 

**Treatment flow** 

- Diagnosis
- Journey
- Coming from other treatment
- Other specialists
- Comorbidities
- Multi-medicated



- National data of prevalence and incidence for many pathologies
  - The majority of forecasts and patient flows are developed based on American or European data
  - However, it is found good epidemiologic local data for few pathologies



# **Characteristics of the profession**



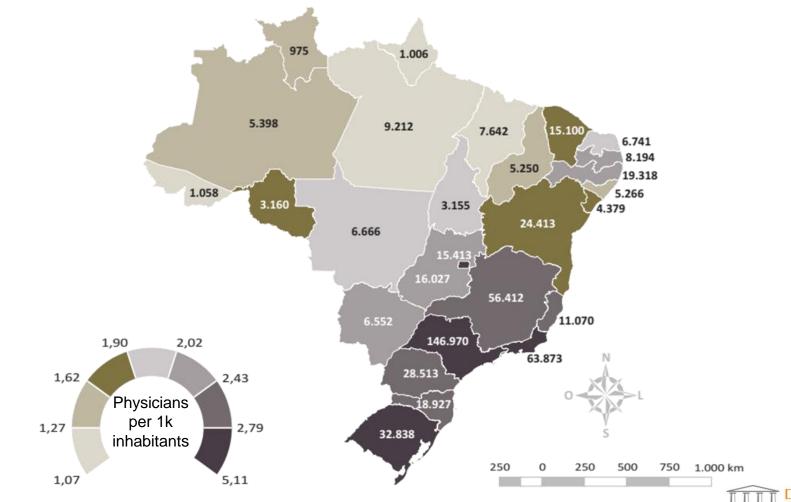
- Brazil has the 6<sup>th</sup> largest number
  of doctors in the world

2. There is no shortage of doctors overall, but there is **imbalance** in **geographic** and **specialty** terms

- Market ATTRACTIVENESS:income vs. reference centers vs. opportunities
- Multiple jobs (both private & public)long work shift
- **5** Young doctors Ionger professional lifespan more doctors coming in than going out



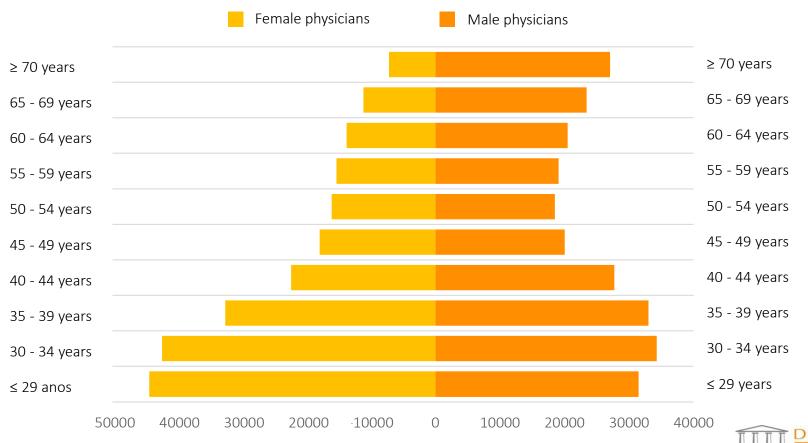
### **Geographic distribution of physicians**



Source: CFM, FMUSP; Demografia Médica no Brasil, 2020

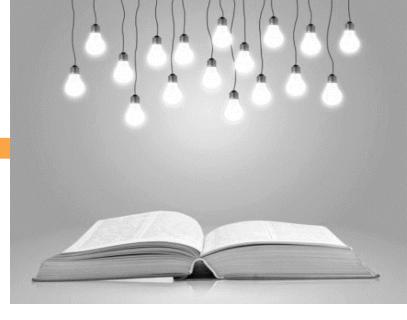
## **Distribution of physicians**

Distribution of physicians by gender and age



Source: CFM, FMUSP; Demográfia Médica no Brasil, 2020

#### Some relevant info about the Pharma Market Research itself

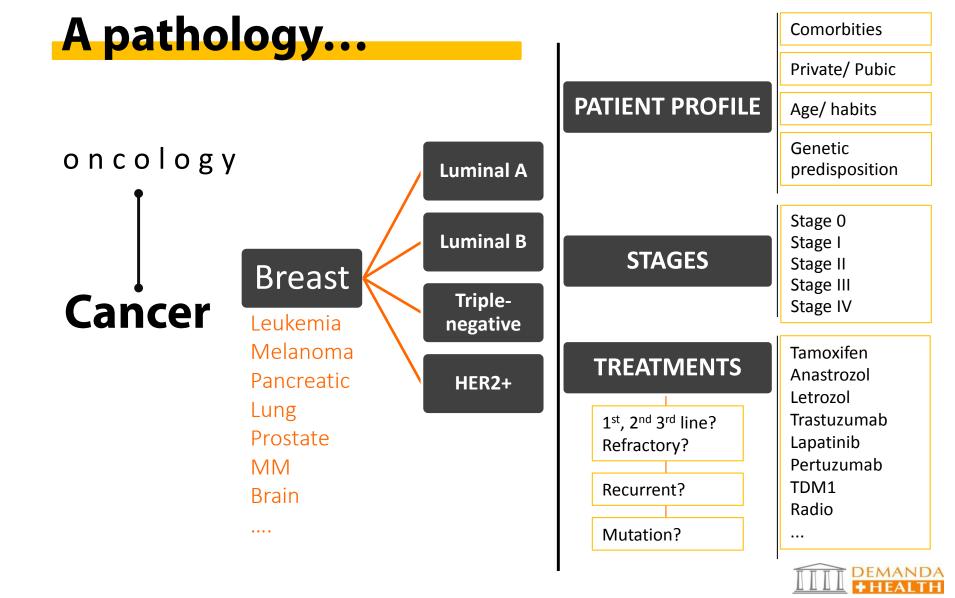




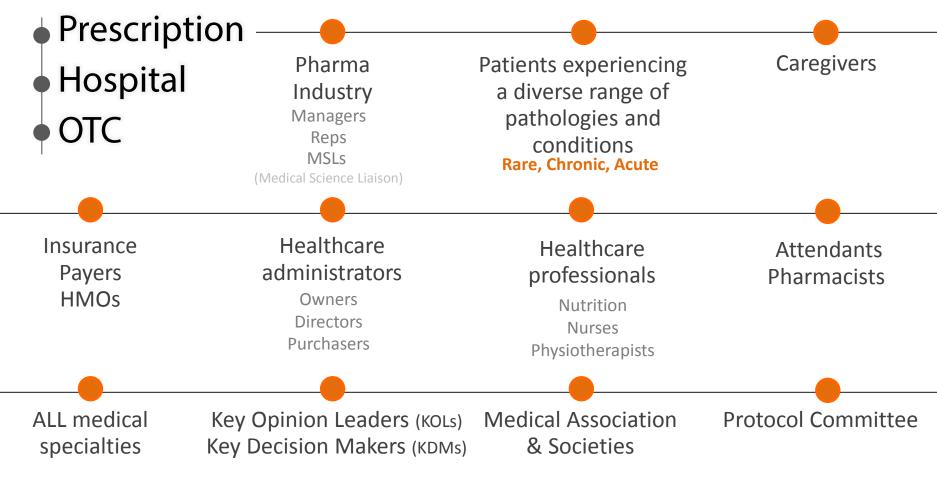
### **Pathologies x Specialities**

Allergy and Immunology HIV, Vaccines: Influenza, TB, Strep A, Dengue Anesthesiology Anesthetics, Infusion devices Cardiology and Hemodynamics Anti-hypertensive, Atrial fibrillation, Anticoagulants CV Surgery Primary care Vitamins, infections Dermatology Dermatitis, Psoriasis, Acne, Onychomycosis, Aesthetics Emergency care Endocrinology Metabolic syndrome - hyperglycemia, obesity, Type I and II diabetes - devices, treatment, medication Gastroenterology GERG, Gastritis, Ulcer, Crohn's disease, UC, Hep B-C Genetic study Gerontology GOB Hormone therapy, Vulvovaginal Atrophy, Dyspareunia, Endometriosis, Contraception, Osteoporosis, In Vitro Fertilization, HPV Hematology Gaucher, CLL, Hemophilia Hepatology Infectious diseases Hospital-acquired infection Mastology Breast CA Nephrology Chronic Kidney Disease, Transplant Neurology MS, Alzheimer, Parkinson, Epilepsy, Neuropathic pain, Cervical Dystonia, Spasticity of the limbs, Pain Occupational medicine Ophthalmology Cataract, Glaucoma, IOL Oncology CLL, AML, Pancreatic, Lung, Prostate, MM Orthopedics and Traumatology ENT Allergic rhinitis Pediatrics vaccines Pulmonology Rhinitis, Asthma, Bronchitis, COPD, Emphysema Proctology CA prostrate, Hemorrhoid disease Psychiatry Depression, Alzheimer, Bipolar disorder, Psychosis, Schizophrenia Radiology and Medical Imaging Rheumatology Osteoarthritis, Lupus, Rheumatoid Arthritis, Fibromyalgia Urology erectile dysfunction, BPH Healthcare and Well-being Nutrition, Nicotine, Healthcare habits Hospital-related Parenteral nutrition, Antibiotics ...



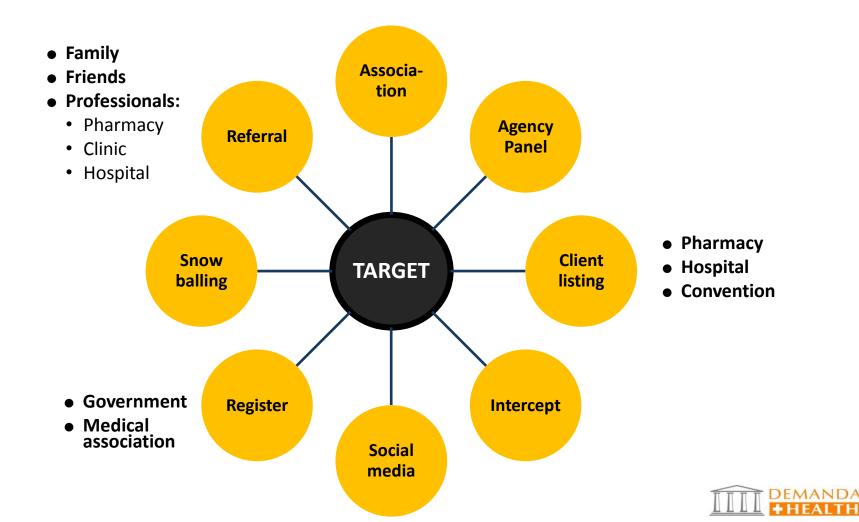


### Who we talk to





### **Recruitment Methods**



### **Qualitative... to be taken into account**

IDI

- The majority of physicians in Brazil can be interviewed in-field as they generally have their own offices in hospitals/polyclinics.
- Hospitals do not usually restrict access to interviewers: prescheduled interviews are duly authorized



- It offers the benefit of flexibility of time and location.
- Tidis are seen as less serious by physicians: a less important commitment: Rebooking, if incentives are not attractive

#### WEB-AIDED IDI

- Not rarely physicians used to struggled with links that support web-aided TIDis. Lately, this has changed due to the pandemic + tech tools survival needs.
- ... KOLs, it is the best-choice methodology for interviews lasting no longer than 1 hour

#### Online

- Commonly adopted
- Specific targets & pathologies & Rx riangle Conducted with prior recruitment
- Structured panels for online research and syndicated studies with doctors are still incipient in comparison to ad-hoc ones

SUCCESSFUL

RECOMMENDED	Friendly, clear
UP TO 30min	language
With a time bar	Being able to stop
showing time to	and adjourned
completion	some other time

- It may take longer than expected: Portuguese X English
- Little familiarity with PC: Elderly and Regions outside the South, Southeast & Northeast
- Sterling recruitment is essential for engaging and committing respondent
- Updated database is important to speedup recruitment process



# **Choosing Markets**

#### **Qualitive and Quantitative Studies**

The largest city in Brazil and in the Southern Hemisphere is São Paulo; it is the world's 7<sup>th</sup> largest city and 5<sup>th</sup> largest metropolitan region with 19,5 millions inhabitants.

#### Cities typically included in Pharma MR

Market	Dopulation	Physicians*	Datio**	Cities typically in	cluded in MR ***
	Population		s* Katio**	QUALITATIVE	QUANTITATIVE
São Paulo	12,252,023	68,694	5,61	Essential	Essential
Rio de Janeiro	6,718,903	40,232	5,99	Strongly Recommended	Essential
Salvador	2,872,347	14,084	4,90	Recommended	Recommended
Fortaleza	2,669,342	11,171	4,18	Recommended	Recommended
Belo Horiz.	2,512,070	20,412	8,13	Recommended	Recommended
Curitiba	1,933,105	12,611	6,52	Recommended	Recommended
Recife	1,645,727	13,457	8,18	Strongly Recommended	Strongly Recommended
Porto Alegre	1,483,771	14,755	9,94	Strongly Recommended	Strongly Recommended

\*Physicians registered at Consellho Federal de Medicina (Federal Council of Medicine - FMC)

\*\*Physicians registered in FMC/1,000 inhabitants ratio

\*\*\* Demanda Health suggestions based on years of experience



**Fortaleza** 

Salvador

Rio de Janeiro

Belo Horizonte

São Paulo

Recife

# **Physicians**



#### Receptivity

- Surveys: a source of knowledge and income...
- Reps' visit: updating
- One notices a certain appreciation in demonstrating knowledge.
- They tend to be very curious professionals when it comes to new launches
- High level of refusal or abandonment of online studies more than 45 minutes in length.

#### **Patient information**

- Physicians are increasingly being used as a source of patient records (PR).
- Ideal is to request up to 8 PR, to avoid respondent fatigue and drop out
- Attention: Referrals of patients!
- Patients are becoming more proactive and seeking information about their health.
- Patients come to the office knowing what they want to have as prescriptions for them.



### **Research with Patients & Caregivers**

#### Methods

- Patients want to talk about their problems: ethno, video diaries, bulletin board work well.
- Want to be and feel cared for.
- Transparency: being clear on what is required of them.
- Processing Information: avoid showing sensitive data.

#### Age & Gender

- Conservative: In patient groups it is advisable not to mix genders within a group.
- Mix of ages is recommended as it enriches results.
- The permission of a guardian must be obtained before formally interviewing children under 14 years.

#### SEC x Education

- Social classification must be observed in selecting respondents.
- Combining very different social classes isn't recommended mainly because of the difference in level of education.

#### Difficulties

- If the disease is more debilitating, then in-home IDIs are preferred over studies at facility.
- Dexterity, visual impairment.
- Elderly: lack of PC familiarity.
- Suspicious.
- Most Brazilians speak only Portuguese.



#### **Alzheimer**



- Method
- Family' protection
- Unknown diagnosis
- Sad, sad learnings



### **Spinal Muscular Atrophy**



Dependent

- Movement limited
- Willing to take part in the study: needs to talk
- Commotion in the back room



### **Urinary incontinence**



- Social life is affected
- So, personal hygiene
- Embarrassment
- How to recruit???



### **Bipolar Disorder**

• yes







#### **Cultural issues**



- Brazilians speak Portuguese... English is spoken with low quality / proficiency
- Interviews with Brazilians are likely to take longer than in other cultures
- Because... Brazilians are outspoken and talkative
- A 15 minute delay is expected. It is culturally accepted, no one will get angry
- Brazilians are lenient: evaluations tend to be more positive than in other cultures



#### **Expert Help**



- On-line panels may be limited to A B C class. If D class is your sample frame, you may need to recruit on the street
- Some small markets don't have focus group facilities
- If the project calls for product placement, consider in person delivery. The local post office, and FedEx are not especially strong!
- Uniqueness: An "A" household in Sao Paulo is NOT equal to an "A" household in Peru or Mexico.

Business to Consumer: Don't ask household income, use SEC such as, A through E. Example Questions:

- 1. Do you own a car? How many?
- 2. How many full-time household staff members do you employ?
- Know which time zone you are working in
- Daylight Savings Time start and stop days vary—check and double check!



### **Expert Help**



- Translation will be expensive, but don't skimp!
  - Brazilian Portuguese is different from that spoken in Portugal—you need the right translation! Think American vs. British English
  - Whether qualitative or quantitative, the language must be accurate!
    - Provide materials as early as possible to the translator
    - Triple check technical words
    - Don't rely on Google Translate!
- Stimulus Items:
  - Can they fit or be carried on the plane with you?
  - Will they have to be shipped? Have you allowed plenty of time? Customs clearance?
- If you are traveling in Latin America use in-country staff or the local research vendor to select hotel and car service, use DEMANDA!





Gabriela Prado, PhD Head of Demanda Health gabriela@demanda.com.br

Tel.: +55 11 3218.8000 Rua da Consolação, 1992 4º andar CEP 01302 – 001 São Paulo – SP

www.demanda.com.br

