



## **BRAZIL MACRO**

August 19, 2021

## **COVID MONITOR**

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- The vaccination rate reached 1.9 million/day on average, reaffirming a positive outlook for the control of the pandemic and the reopening of the economy in 2H21, in our view.
- Our proxy for a nationwide average of ICU occupancy continues to decline, now close to 51%, the lowest level in our series (begun in January).
- Despite this positive note, the Delta variant has been spreading in key regions such as state of Rio de Janeiro (where it accounts for 60% of new cases) and the metropolitan region of São Paulo (23% of new cases).
- Data from Brazil's Health Ministry showed that the 7-day average of infections stood at 30k as of Wednesday (August 18), down 2% from last week; as for casualties, the 7-day average stood at 844, down 3%.

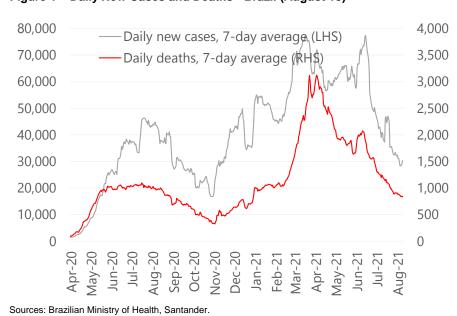
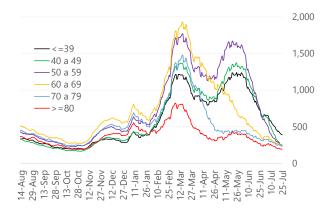


Figure 1 – Daily New Cases and Deaths - Brazil (August 18)

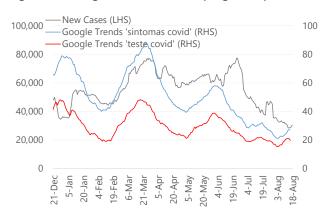
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Figure 2 - New Hospital Admissions by Age (July 25)



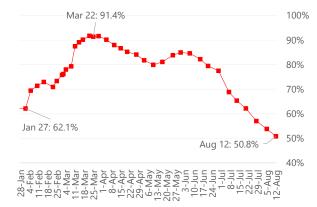
Sources: openDataSUS, Santander.

Figure 4 - Google Trends - Brazil (August 18)



Sources: Brazilian Ministry of Health, Google Trends, Santander.

Figure 6 – Nation-wide Average ICU Occupancy<sup>1</sup> (%)



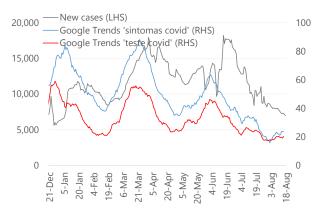
Sources: @coronavirusbra1, Santander.

Figure 3 - New Hospital Admissions by Age (July 25)



Sources: openDataSUS, Santander.

Figure 5 - Google Trends - São Paulo (August 18)



Sources: Brazilian Ministry of Health, Google Trends, Santander.

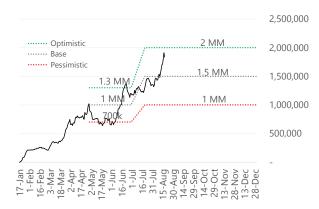
Figure 7 - ICU Occupancy - São Paulo (August 18)



Sources: São Paulo Government, Santander.

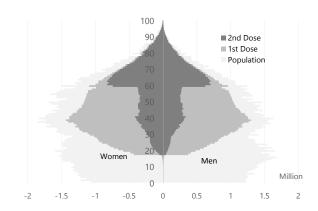
<sup>&</sup>lt;sup>1</sup> The nation-wide average is a weighted average (by state population) of state ICU occupancy rates. Hence it does <u>not</u> reflect the actual national occupancy rate = Total beds occupied in Brazil / Total beds available in Brazil.

Figure 8 - Vaccination Pace (Daily Shots 7dma)



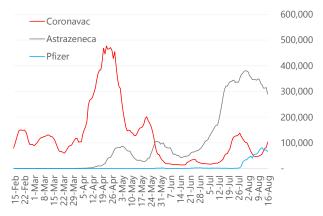
Sources: Brazilian Ministry of Health, Santander.

Figure 10 – Vaccination by Age and Gender (August 18)



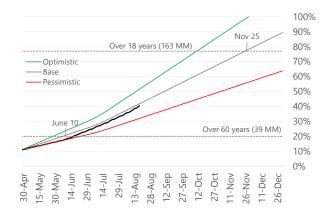
Sources: openDataSUS, Santander.

Figure 12 – Daily shots (2<sup>nd</sup> dose) by Vaccine (August 16)



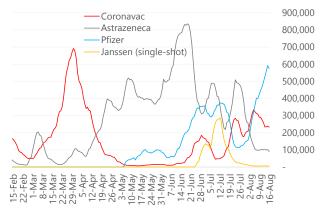
Sources: openDataSUS, Santander.

Figure 9 - Population Fully Vaccinated (%)



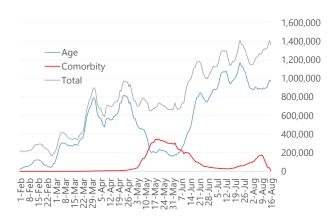
Sources: Brazilian Ministry of Health, Santander.

Figure 11 – Daily shots (1<sup>st</sup> dose) by Vaccine (August 16)



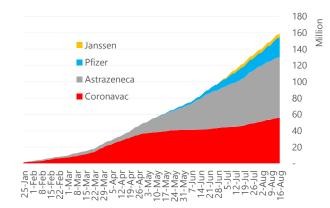
Sources: openDataSUS, Santander.

Figure 13 - Daily shots by Criteria (August 16)



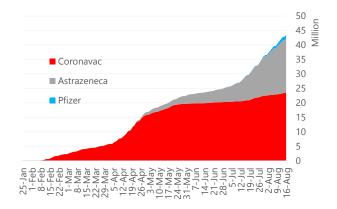
Sources: openDataSUS, Santander.

Figure 14 – Accumulated Doses Administered (Total) by Vaccine (August 16)



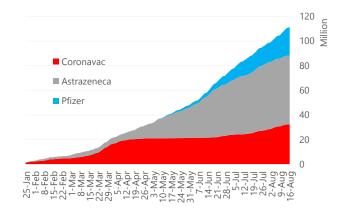
Sources: openDataSUS, Santander.

Figure 16 – Accumulated Doses Administered (2<sup>nd</sup> dose) by Vaccine (August 16)



Sources: openDataSUS, Santander.

Figure 15 – Accumulated Doses Administered (1st dose) by Vaccine (August 16)



Sources: openDataSUS, Santander.

Figure 17 - Vaccination Schedule (August 19)

	AstraZeneca		CoronaVac		Covax		Pfizer		Janssen	Moderna	Accum	. Doses	Accum. IFA	Accum. Doses + IFA
	Expected	Actual	Expected	Actual	Expected	Actual	Expected	Actual	Expected	Expected	Expected	Actual	Actual	Actual
Jan-21	2,000,000	2,000,000	8,702,348	8,702,348	-	-	-	-	-	-	10,702,348	10,702,348		10,702,348
Feb-21	1,999,600	1,999,600	4,853,000	4,853,000	-	-	-	-	-	-	17,554,948	17,554,948		17,554,948
Mar-21	2,822,000	2,822,000	22,758,970	22,758,970	1,022,400	1,022,400	-	-	-	-	44,158,318	44,158,318		44,158,318
Apr-21	19,186,750	19,186,750	5,800,000	5,800,000	-	-	1,000,000	1,000,000	-	-	70,145,068	70,145,068		70,145,068
May-21	21,677,750	21,677,750	5,116,010	5,116,010	4,051,200	4,051,200	2,500,000	2,500,000	-	-	103,490,028	103,490,028		103,490,028
Jun-21	18,258,000	18,041,000	5,000,000	5,000,000	842,000	842,000	11,065,000	11,066,000	4,801,550	-	138,655,028	143,240,578		143,240,578
Jul-21	14,504,500	14,504,500	10,654,000	10,654,000	4,084,800	4,084,800	14,386,320	14,386,320			182,284,648	186,870,198		186,870,198
Aug-21	11,600,000	4,000,000	20,000,000	9,800,000			33,300,000	14,573,880		1,000,000	248,184,648	215,244,078	21,346,000	236,590,078
Sep-21	11,951,500	800,000	17,115,672	20,546,000			37,495,530			1,000,000	315,747,350			
Oct-21	39,333,333		10,000,000		10,845,333		33,333,300		12,066,667		409,259,317			
Nov-21	39,333,333		10,000,000		10,845,333		33,333,300		12,066,667	10,000,000	524,837,950			
Dec-21	39,333,333		10,000,000		10,845,333		33,333,300		12,066,667		607,504,583			
Total	222.000.100		130.000.000		42,536,400		199.746.750		41.001.550	12.000.000				

Available doses

In production (API in the country)

Sources: Brazilian Ministry of Health, Santander.



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