

PLASMA DE CONVALECIENTE

Experiencia en el laboratorio

Bioq Agustina Da Passano
Residente 2° año- Hospital El Carmen

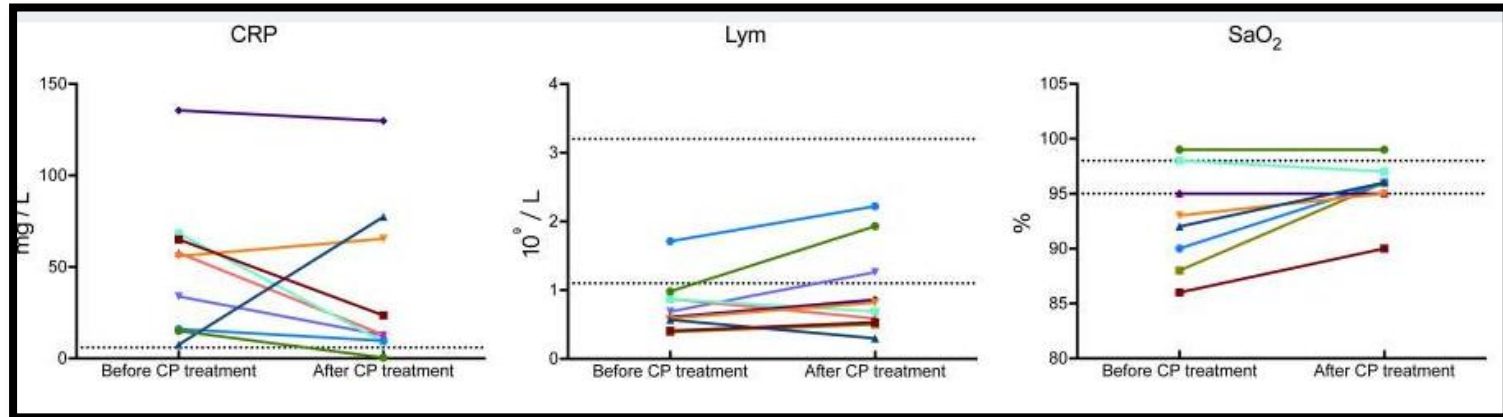




Effectiveness of convalescent plasma therapy in severe COVID-19 patients

Kai Duan^{a,b,1} , Bende Liu^{c,1}, Cesheng Li^{d,1}, Huajun Zhang^{e,1} , Ting Yu^{f,1}, Jieming Qu^{g,h,i,1} , Min Zhou^{g,h,i,1} , Li Chen^{h,1} , Shengli Meng^b, Yong Hu^d, Cheng Peng^e, Mingchao Yuan^k, Jinyan Huang^l , Zejun Wang^b, Jianhong Yu^d, Xiaoxiao Gao^o, Dan Wang^k, Xiaoqi Yu^m , Li Li^b , Jiayou Zhang^b, Xiao Wu^d, Bei Li^o, Yanping Xu^{g,h,i} , Wei Chen^b, Yan Peng^d, Yeqin Hu^b, Lianzhen Lin^d, Xuefei Liu^{g,h,i}, Shihe Huang^b, Zhijun Zhou^d, Lianghao Zhang^b, Yue Wang^d, Zhi Zhang^b, Kun Deng^d, Zhiwu Xia^b, Qin Gong^d, Wei Zhang^d, Xiaobei Zheng^d, Ying Liu^d, Huichuan Yang^o, Dongbo Zhou^o, Ding Yu^o, Jifeng Houⁿ, Zhengli Shi^o, Saijuan Chen^l, Zhu Chen^{l,2}, Xinxin Zhang^{m,2}, and Xiaoming Yang^{a,b,2} 

1. 10 pacientes graves
2. La terapia fue bien tolerada
3. Mejoría clínica y de laboratorio



INFUSION OF CONVALESCENT PLASMA IS ASSOCIATED WITH CLINICAL IMPROVEMENT IN CRITICALLY ILL PATIENTS WITH COVID-19: A PILOT STUDY

JUAN C. OLIVARES-GAZCA^{1,2}, JOSE M. PRIESCA-MARÍN¹, MARTÍN OJEDA-LAGUNA¹, JAVIER GARCES-EISELE^{2,3}, SILVIA SOTO-OLVERA³, ABRAHAM PALACIOS-ALONSO⁴, JUDITH IZQUIERDO-VEGA⁴, RÓMULO CHACON-CANO⁵, DANIEL ARIZPE-BRAVO⁵, MIGUEL A. LÓPEZ-TRUJILLO³, YAHVETH CANTERO-FORTIZ^{1,6}, DANITZA FERNANDEZ-LARA^{1,2}, GUILLERMO J. RUIZ-DELGADO^{1,3}, AND GUILLERMO J. RUIZ-ARGÜELLES^{1,5*}

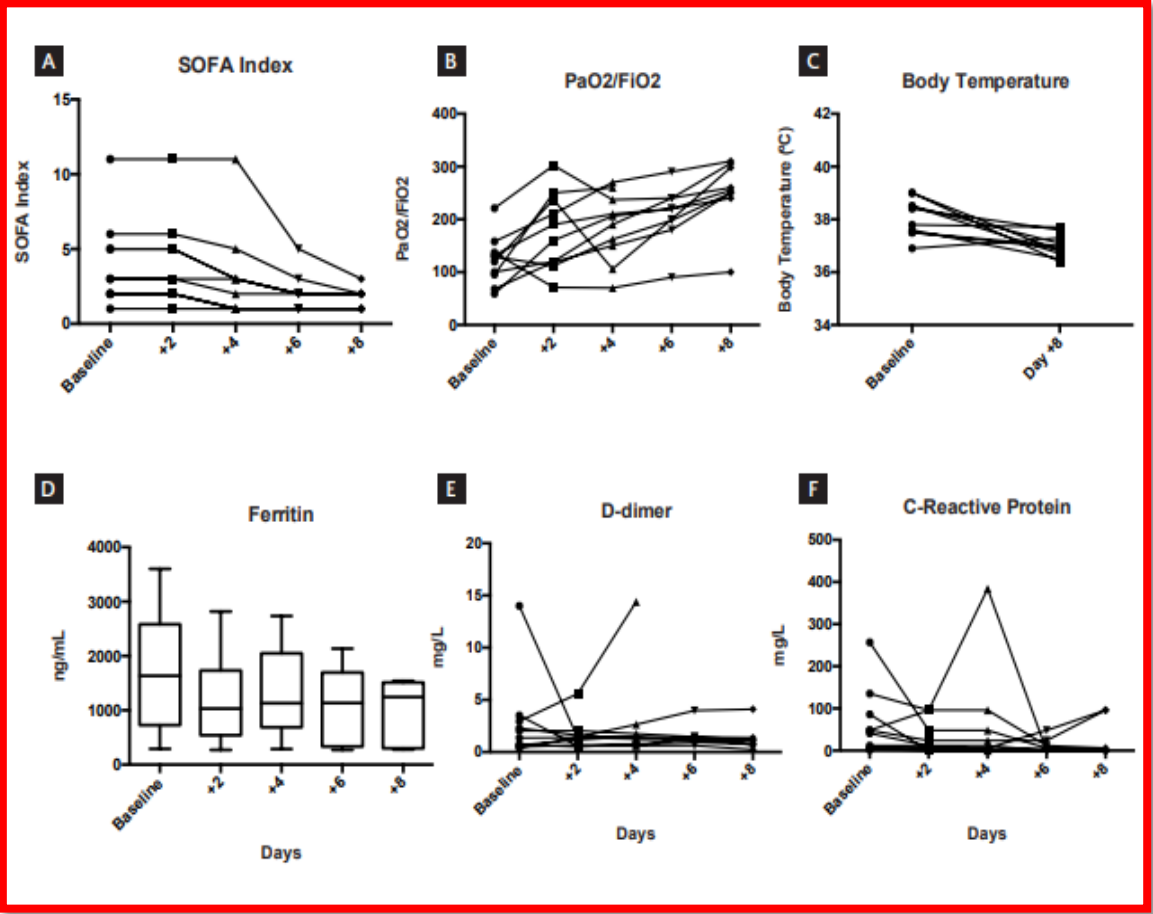
Donantes

- 2 rtPCR negativas separadas por 24/48 hs
- Anticuerpos totales

Receptores

- 10 pacientes masculinos graves o moderadamente graves en UTI
- Tratamiento previo





- Mejoría clínica y de la función respiratoria
- Supervivencia 77%
- No se detectaron efectos adversos
- No se determinaron las cargas virales

Treatment of 5 Critically Ill Patients With COVID-19 With Convalescent Plasma

Chenguang Shen, PhD; Zhaoqin Wang, PhD; Fang Zhao, PhD; Yang Yang, MD; Jinxiu Li, MD; Jing Yuan, MD; Fuxiang Wang, MD; Delin Li, PhD; Minghui Yang, PhD; Li Xing, MM; Jinli Wei, MM; Haixia Xiao, PhD; Yan Yang, MM; Jiuxin Qu, MD; Ling Qing, MM; Li Chen, MD; Zhixiang Xu, MM; Ling Peng, MM; Yanjie Li, MM; Haixia Zheng, MM; Feng Chen, MM; Kun Huang, MM; Yujing Jiang, MM; Dongjing Liu, MD; Zheng Zhang, MD; Yingxia Liu, MD; Lei Liu, MD

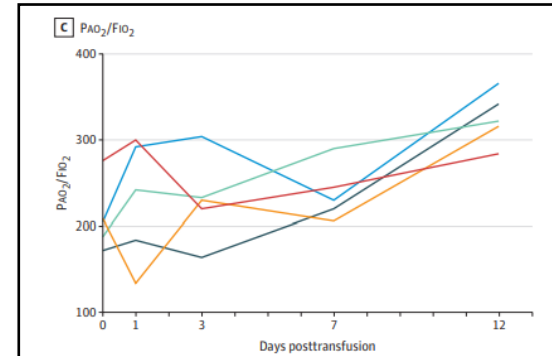
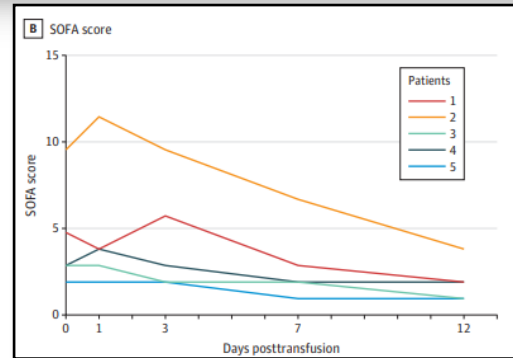


DONANTES

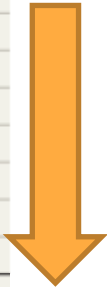
- ✓ 5 donantes
- ✓ Ac totales >1:1000
- ✓ Ac neutralizantes >1:40

RECEPTORES

- ✓ 5 pacientes críticos
- ✓ ARM y tratamiento antiviral
- ✓ Ac totales y neutralizantes pretransfusión



Laboratory findings					
C-reactive protein, mg/L (normal range, <8)					
Before transfusion	163.4	242.8	65.	156.0	173.1
Day 1 posttransfusion	146.2	223.0	108.3	NT	186.8
Day 3 posttransfusion	115.1	75.2	78.7	160.8	233.7
Day 5 posttransfusion	31.3	10.4	74.7	NT	260.4
Day 7 posttransfusion	31.2	13.9	6.2	9.6	5.5
Day 12 posttransfusion	5.3	33.1	NT	5.8	3.2
Procalcitonin, ng/mL (normal range, <0.1)					
Before transfusion	1.2	7.3	0.1	0.2	0.2
Day 1 posttransfusion	1.3	19.7	0.1	0.08	0.4
Day 3 posttransfusion	1.6	13.9	0.09	0.07	1.5
Day 5 posttransfusion	0.9	1.8	0.08	NT	0.9
Day 7 posttransfusion	1.1	0.1	0.04	0.04	0.09
Day 12 posttransfusion	0.4	0.2	NT	0.04	0.07
IL-6, pg/mL (normal range, 0-7)					
Before transfusion	70.5	438.2	63.9	79.1	87.8
Day 1 posttransfusion	74.9	NT	118.5	39.3	NT
Day 3 posttransfusion	34.5	1045.0	67.0	25.8	797.9
Day 5 posttransfusion	24.1	334.1	590.5	NT	NT
Day 7 posttransfusion	30.8	29.8	174.3	34.0	69.9
Day 12 posttransfusion	6.1	31.8	NT	2.7	54.9



- ✓ Mejoría del estado clínico y de laboratorio
- ✓ Aumento de los Ac neutralizantes



Anti-SARS-CoV-2 virus antibody levels in convalescent plasma of six donors who have recovered from COVID-19

Libo Zhang^{1,*}, Rongrong Pang^{1,*}, Xiang Xue², Jingjing Bao¹, Sheng Ye³, Yudong Dai⁴, Yishan Zheng⁵, Qiang Fu⁴, Zhiliang Hu^{6,7}, Yongxiang Yi⁶

DONANTES

Ninguno sufrió enfermedad grave
Terapia antiviral y corticoides
Tiempo de internación: 8-18 días

Recolección de plasma: 29-46 días desde los síntomas
Asintomáticos y rtPCR negativa

5 donantes tuvieron IgM débilmente positivo
5 donante tuvieron títulos altos de IgG (>1:160)

Table 2. Antibody levels of six donors recovered from COVID-19.

Donor No.	Blood group	Days from symptom onset to plasma collecting	Days from discharge to plasma collecting	Anti-SARS-CoV-2 IgM levels (OD ratio) ^a	Anti-SARS-CoV-2 IgG levels (OD ratio) ^{a,b}
A	A	29	13	1.47	7.58
B	O	36	17	1.22	6.59
C	B	37	23	1.55	7.84
D	A	46	27	2.01	3.92
E	O	40	22	1.95	7.52
F	A	39	27	5.63	8.36



IgG antibody levels at different titers

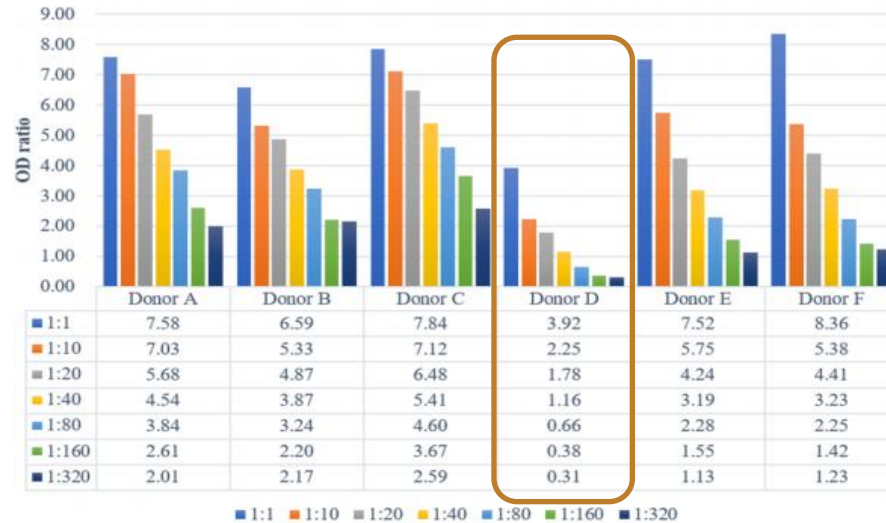


Figure 1. Specific immunoglobulin IgG were titrated by semiquantitative ELISA. Plasma IgG antibody titers ranged from 1:40 to >320.



Experiencia en el laboratorio
del hospital El Carmen

Serología

Valores >15
COI

DONANTES

Determinación
de Ac

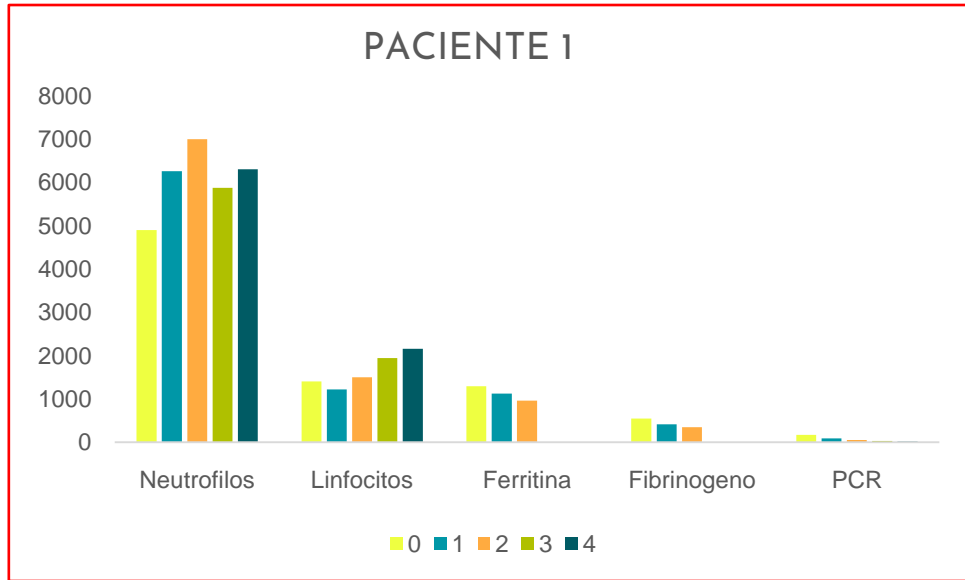
PROMEDIO	46.17	48,78	50,62
MEDIANA	27,02	37,54	36,36
MAXIMO	116,6	121,1	119,20
MINIMO	2,54	3,71	3,29
SD	42,19	44,03	49,98

RECEPTORES

1. Paciente masculino
2. 61 años
3. Inicio de los síntomas 6/7
4. Internación 19/7
5. Indicación 19/7

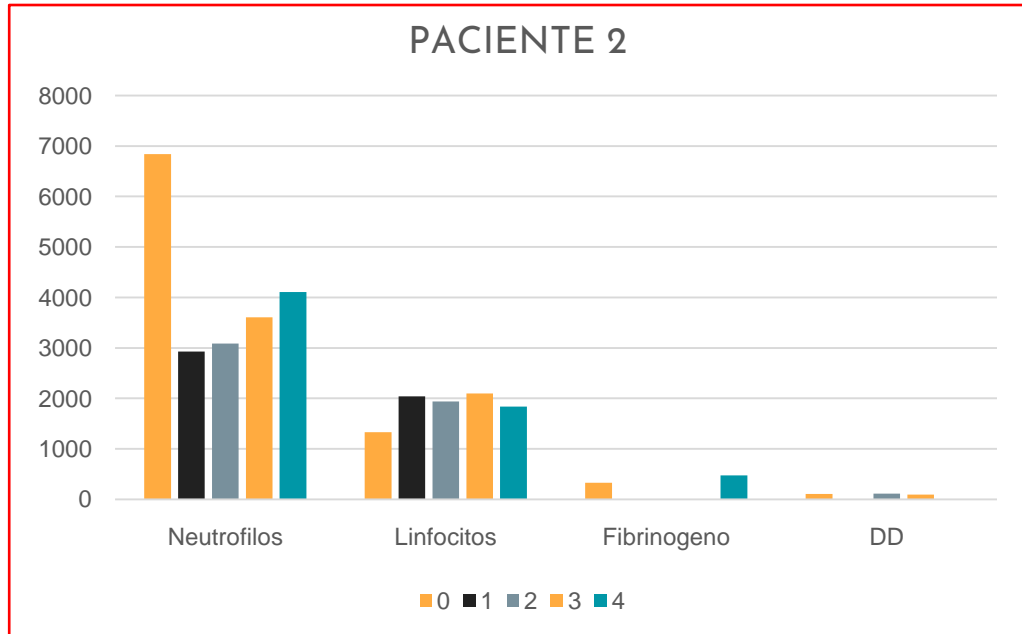


2

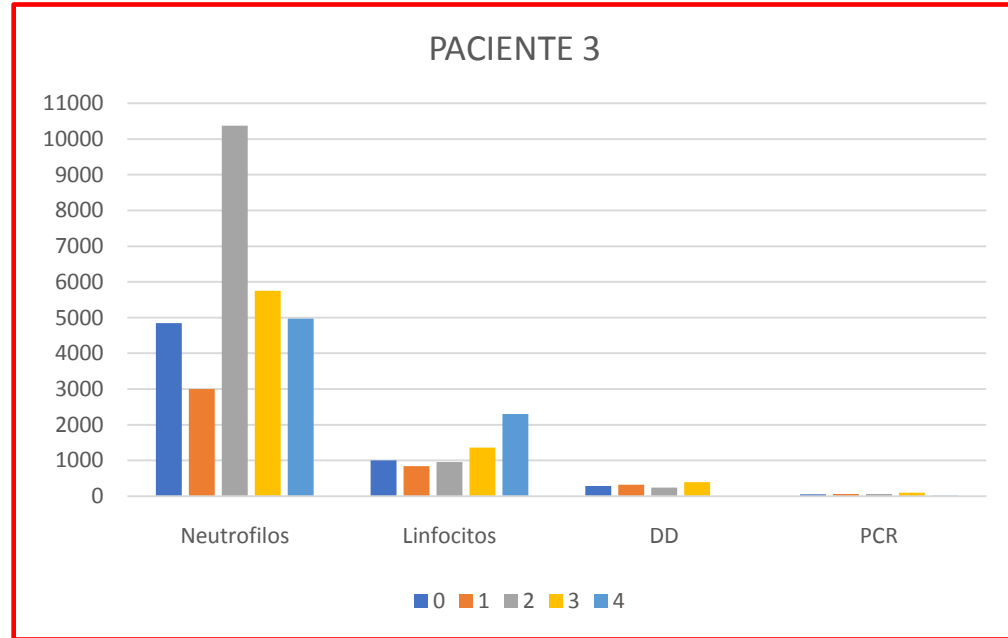


1. Paciente masculino 31 años
2. Inicio de los síntomas 12/7
3. Internación 13/7
4. Indicación 22/7

 PCR



1. Paciente masculino
2. Internación 14/7
3. Indicación 14/7



1. Paciente masculino 71 años
2. Inicio de los síntomas 10/7
3. Internación 10/7
4. Indicación 12/7



5

Día	Neutro	Linfo	DD	Ferritina	Fibri	IL-6	PCR
0 (10/7)	6220	1870					36.71
1			397		525		
2	5970	940					144.14
3	9150	790	615				
4	7250	330	1015				306
5	10530	350					382
6	8090	290			789	45.4	364
7	8310	470	1309		593		38
8	4680	850	1920	899	593		
9	5490	630					
10	6000	1000		817	500		91

CONCLUSIONES...



**MUCHAS
GRACIAS**

TEMARIO

01

ANTECEDENTES

02

EXPERIENCIA EN
EL LABORATORIO

03

DONANTES

04

RECEPTORES



Mercury

Mercury is the closest planet to the Sun



Jupiter

It's the biggest planet in our Solar System



Mars

Despite being red, Mars is a cold place, not hot



Saturn

It's composed mostly of hydrogen and helium

DONANTES

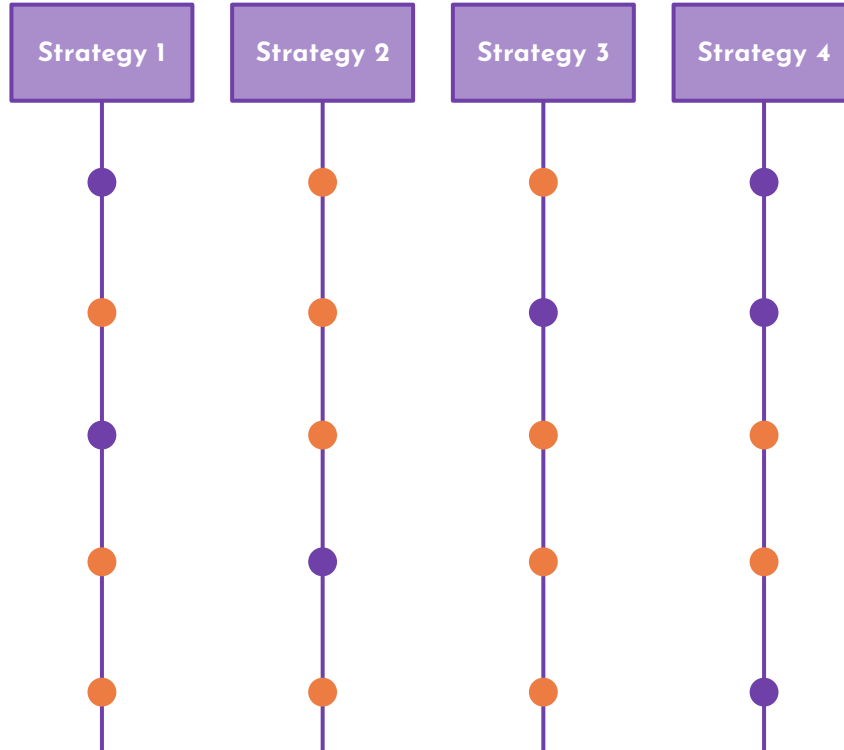
“This is a quote. Words full of wisdom that someone important said and can make the reader get inspired.”

–Someone famous

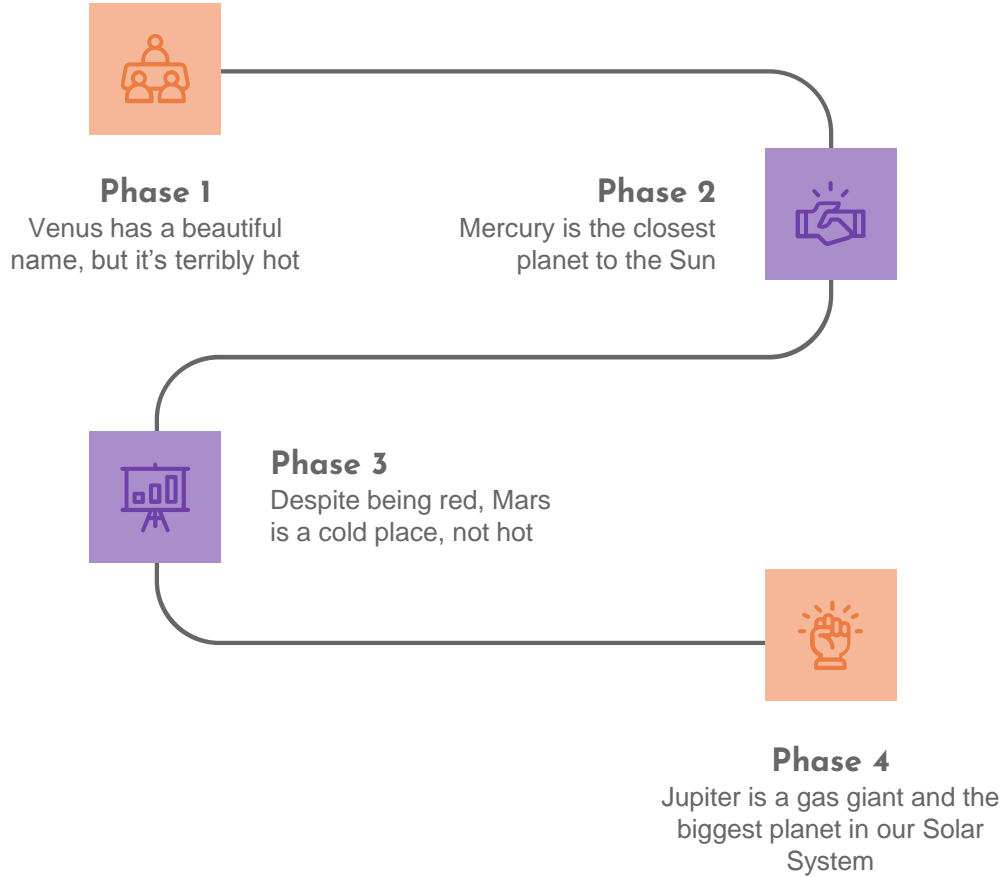
30	31	1	2	3	4	5
		Meeting				
6	7	8	9	10	11	12
30	13	14	15	16	17	18
	Meeting				Meeting	
19	20	21	22	23	24	25
			Meeting			
26	27	28	29	30	1	2
		Meeting				

Project Schedule

20



Checklist



Project Timeline

Schedule ■ ■ ■ The project schedule is on track

Resourcing ■ ■ ■ Resourcing is adequate

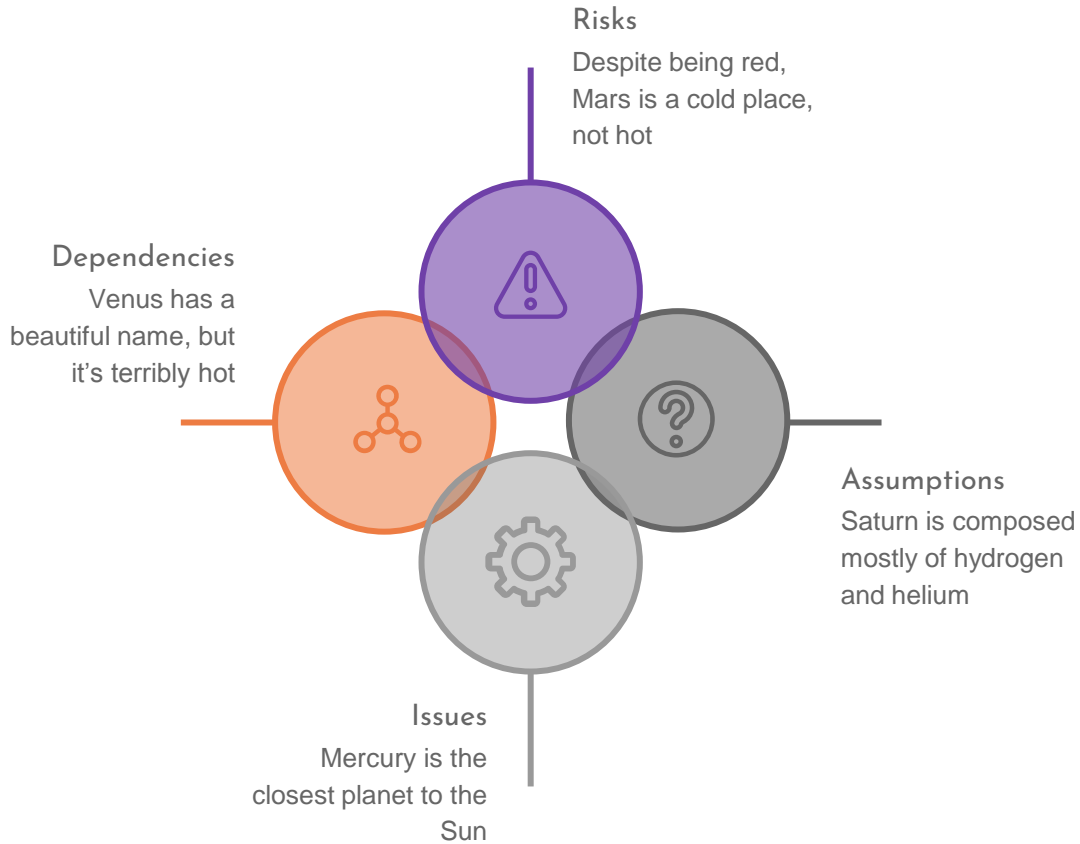
Budget ■ ■ ■ Project is within budget

Risks ■ ■ ■ All project risks are under control

Issues ■ ■ ■ Project issues need to be solved

Benefits ■ ■ ■ Project benefits do not meet the expectations

Status Report



RAID Summary

Thanks

Does anyone have any questions?
addyouremail@freepik.com
+91 620 421 838
yourcompany.com



Instructions for use

In order to use this template, you must credit [Slidesgo](#) by keeping the Credits slide.

You are allowed to:

- Modify this template.
- Use it for both personal and commercial projects.

You are not allowed to:

- Sublicense, sell or rent any of Slidesgo Content (or a modified version of Slidesgo Content).
- Distribute Slidesgo Content unless it has been expressly authorized by Slidesgo.
- Include Slidesgo Content in an online or offline database or file.
- Offer Slidesgo templates (or modified versions of Slidesgo templates) for download.
- Acquire the copyright of Slidesgo Content.

For more information about editing slides, please read our FAQs:

<https://slidesgo.com/faqs>

Fonts & colors used

This presentation has been made using the following fonts:

Josefin Sans

(<https://fonts.google.com/specimen/Josefin+Sans>)

Zilla Slab

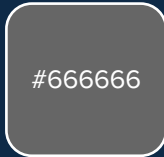
(<https://fonts.google.com/specimen/Zilla+Slab>)



#ed7c43



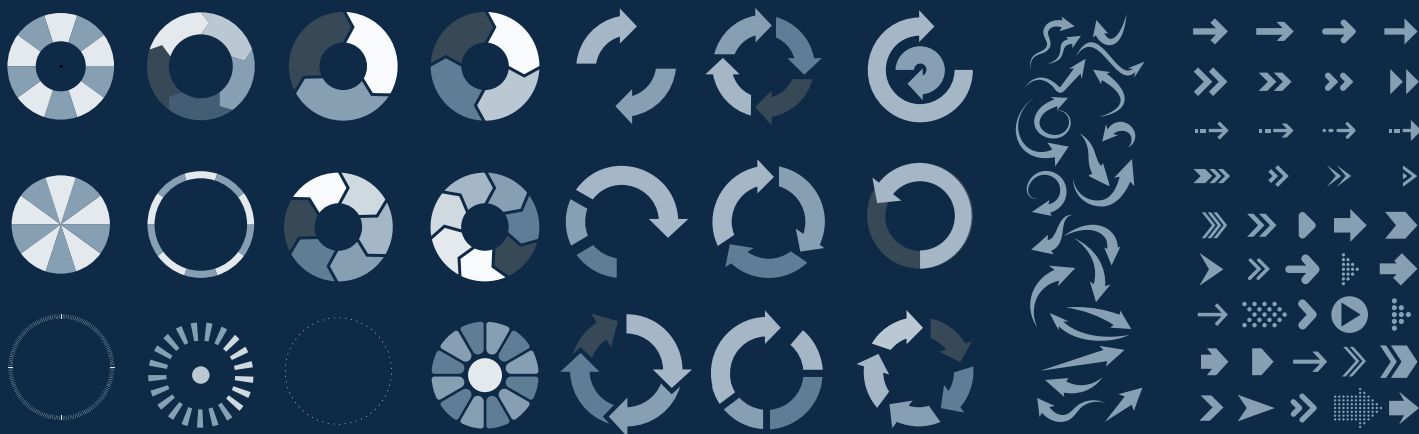
#6f40a8



#666666

Use our editable graphic resources...

You can easily resize these resources keeping the quality. To change the color just ungroup the resource and click on the object you want to change. Then click on the paint bucket and select the color you want. Don't forget to group the resource again when you're done.



...and our set of editable icons

You can resize these icons keeping the quality.

You can change the stroke and fill color; just select the icon and click on the paint-bucket/pen.



Avatar Icons



Business Icons



Creative Process Icons



Educational Process Icons



Help & Support Icons



Medical Icons



Nature Icons



Performing Arts Icons



SEO & Marketing Icons



Teamwork Icons



