

Approches thérapeutiques actuelles et à venir

Pr Bergeron, Pneumologue – Hôpital St Louis

Approches thérapeutiques (hors vaccins)

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Approches thérapeutiques (hors vaccins)

- Littérature profuse, pas toujours de bonne qualité scientifique (tri)
- Objectifs pertinents face à :
 - Une pandémie
 - Une maladie qui tue et qui sature le système de soins/hôpitaux (réanimations et services conventionnels)
 - Ce qu'on connaît de la maladie (virus, inflammation, thromboses)
- Impact des traitements sur:
 - Mortalité
 - Hospitalisation
 - Passage en réanimation
- Traitements:
 - Accessibles (coût, disponibilité)
 - Balance bénéfique/risque favorable

01/11/20

The COVID-NMA Project: Building an Evidence Ecosystem for the COVID-19 Pandemic FREE

Isabelle Boutron, MD, PhD, Anna Chaimani, PhD, Joerg J. Meerpohl, MD, Asbjørn Hróbjartsson, MD, PhD, MPhil, Declan Devane, PhD, Gabriel Rada, MD, David Tovey, MBChB, Giacomo Grasselli, MD, Philippe Ravaud, MD, PhD, for the COVID-NMA consortium [View fewer authors](#)



The COVID-NMA initiative A living mapping and living systematic review of Covid-19 trials

COVID-NMA is an international research initiative supported by the WHO and Cochrane. We provide a living mapping of COVID-19 trials available through interactive [data visualizations](#). We are also conducting living evidence synthesis on preventive interventions, treatments and vaccines for COVID-19 to assist decision makers. [See the description of our model here](#) and [our living review protocol here](#).

LIVING MAPPING OF TRIALS

(i.e., trials registered on the WHO platform)

Updated weekly

1940

Randomized Trials
1107 RCTs recruiting

LIVING SYNTHESIS OF PUBLISHED TRIALS

(include both articles and preprints)

Updated daily

110

RCTs with results
included in our evidence synthesis

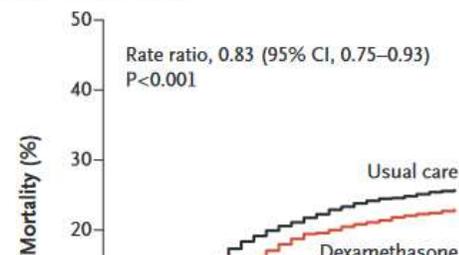
Dexamethasone in Hospitalized Patients with Covid-19 — Preliminary Report

The NEW ENGLAND JOURNAL of MEDICINE

The RECOVERY Collaborative Group*

Randomisation: SOC vs SOC+DXM 2:1
6 mg/j po ou IV pendant 10 jours ou stop à sortie

A All Participants (N=6425)



B Invasive Mechanical Ventilation (N=1007)

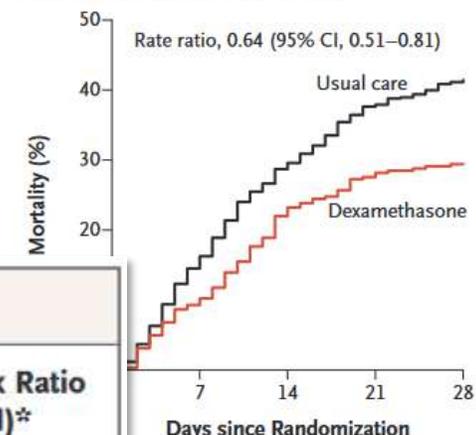


Table 2. Primary and Secondary Outcomes.

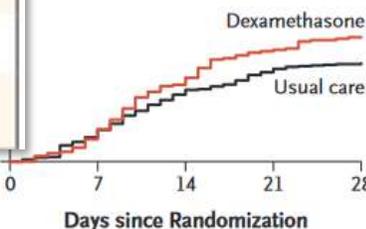
Outcome	Dexamethasone (N=2104)	Usual Care (N=4321)	Rate or Risk Ratio (95% CI)*
	<i>no./total no. of patients (%)</i>		
Primary outcome			
Mortality at 28 days	482/2104 (22.9)	1110/4321 (25.7)	0.83 (0.75–0.93)
Secondary outcomes			
Discharged from hospital within 28 days	1413/2104 (67.2)	2745/4321 (63.5)	1.10 (1.03–1.17)
Invasive mechanical ventilation or death†	456/1780 (25.6)	994/3638 (27.3)	0.92 (0.84–1.01)
Invasive mechanical ventilation	102/1780 (5.7)	285/3638 (7.8)	0.77 (0.62–0.95)
Death	387/1780 (21.7)	827/3638 (22.7)	0.93 (0.84–1.03)

Days since Randomization

7	14	21	28
572	481	424	400
290	248	232	228

† (N=1535)

Rate ratio, 1.19 (95% CI, 0.91–1.55)



Days since Randomization

0	7	14	21	28
2604	2195	2018	1950	1916
1279	1135	1036	1006	981

No. at Risk

Usual care	2604	2195	2018	1950	1916
Dexamethasone	1279	1135	1036	1006	981

Days since Randomization

0	7	14	21	28
1034	987	928	897	889
501	478	441	421	412

No. at Risk

Usual care	1034	987	928	897	889
Dexamethasone	501	478	441	421	412

Respiratory Support at Randomization	Dexamethasone <i>no. of events</i>
Invasive mechanical ventilation	95/324 (29.3)
Oxygen only	298/1279 (23.3)
No oxygen received	89/501 (17.8)
All Patients	482/2104 (22.9)

Chi-square trend across three categories: 11.1

Figure 3. Effect of Dexamethasone on 28-day mortality.

Antiviraux

- Azvudine vs Standard care (1 RCTs)
- Baloxavir marboxil vs Lopinavir + Ritonavir or Darunavir/Cobicistat + Umifenovir + Interferon- α **update** (1 RCTs)
- Favipiravir vs Umifenovir (1 RCTs)
- Favipiravir vs Baloxavir marboxil **update** (1 RCTs)
- Favipiravir vs Lopinavir + Ritonavir or Darunavir/Cobicistat + Umifenovir + Interferon- α **update** (1 RCTs)
- Favipiravir vs Standard care **update** (3 RCTs)
- Favipiravir vs Favipiravir+Tocilizumab **new** (1 RCTs)
- Favipiravir vs Tocilizumab **new** (1 RCTs)
- Favipiravir Early vs Favipiravir Late (1 RCTs)
- IFN- κ plus TFF2 vs Standard care **new** (1 RCTs)
- Interferon α -2b + Interferon gamma+ vs Interferon α -2b (1 RCTs)
- Interferon β vs Standard care (2 RCTs)
- Leflunomide + Interferon alpha2a vs Interferon alpha2a (1 RCTs)
- Lopinavir + Ritonavir vs Standard care (3 RCTs)
- Lopinavir + Ritonavir vs Umifenovir (2 RCTs)
- Lopinavir + Ritonavir + Ribavirin + Interferon-b-1b vs Lopinavir + Ritonavir (1 RCTs)
- Lopinavir+Ritonavir+Interferon alpha vs Ribavirin+Interferon alpha (1 RCTs)
- Novaferon vs Lopinavir + Ritonavir (1 RCTs)
- Novaferon + Lopinavir + Ritonavir vs Lopinavir + Ritonavir (1 RCTs)
- Novaferon + Lopinavir + Ritonavir vs Novaferon (1 RCTs)
- Remdesivir vs Standard Care/Placebo **update** (3 RCTs)
- Remdesivir 5 days vs Remdesivir 10 days (2 RCTs)
- Ribavirin+Lopinavir+Ritonavir+Interferon alpha vs Ribavirin+Interferon alpha (1 RCTs)
- Ribavirin+Lopinavir+Ritonavir+Interferon alpha vs Lopinavir+Ritonavir+Interferon alpha (1 RCTs)
- rSIFN-co vs IFN-alpha (1 RCTs)
- Sofosbuvir + Daclatasvir + Ribavirin vs Standard care (1 RCTs)
- Sofosbuvir/daclatasvir vs Standard care (1 RCTs)
- Tocilizumab vs Favipiravir+Tocilizumab **new** (1 RCTs)
- Triazavirin vs Placebo **new** (1 RCTs)
- Umifenovir vs Standard care (1 RCTs)

Antimicrobiens

- Chloroquine vs Standard Care (1 RCTs)
- Darunavir/cobicistat vs Standard Care (1 RCTs)
- Hydroxychloroquine vs Standard Care/Placebo **update** (11 RCTs)
- Hydroxychloroquine vs Chloroquine (1 RCTs)
- Hydroxychloroquine + Azithromycin vs Standard Care (1 RCTs)
- Hydroxychloroquine + Azithromycin vs Hydroxychloroquine (2 RCTs)
- Intravenous Immunoglobulin vs Standard care/Placebo (2 RCTs)
- Ivermectin + Doxycycline vs Hydroxychloroquine + Azithromycin (1 RCTs)
- Lincomycin vs Azithromycin (1 RCTs)

Antinflammatoires

- Colchicine vs Standard care/Placebo (3 RCTs)
- IFN- κ plus TFF2 vs Standard care **new** (1 RCTs)

- CIGB-325 vs Standard care (1 RCTs)
- Ruxolitinib vs Vitamin C (1 RCTs)
- Leflunomide + Interferon alpha2a vs Interferon alpha2a (1 RCTs)
- Human umbilical cord mesenchymal stem cell infusion vs Standard care (1 RCTs)
- rSIFN-co vs IFN-alpha (1 RCTs)

Remdesivir for the Treatment of Covid-19 — Final Report

J.H. Beigel, K.M. Tomashek, L.E. Dodd, E. Hohmann, H.Y. Chu, A. Luetkemeier, R.W. Finberg, K. Dierberg, V. Tapson, L.D.A. Sweeney, W.R. Short, G. Toulounian, G.M. Ruiz-Palacios, T. Benfield, G. Fätke, C.B. Creech, J. Lundgren, A.G. Babiker, T. Bonnett, M. Green, M. Makowski, A. for the ACTT-1 Study

The NEW ENGLAND JOURNAL

Randomisation 1:1 SOC vs SOC
Dose de charge 200-mg J1 puis
sortie de l'hôpital

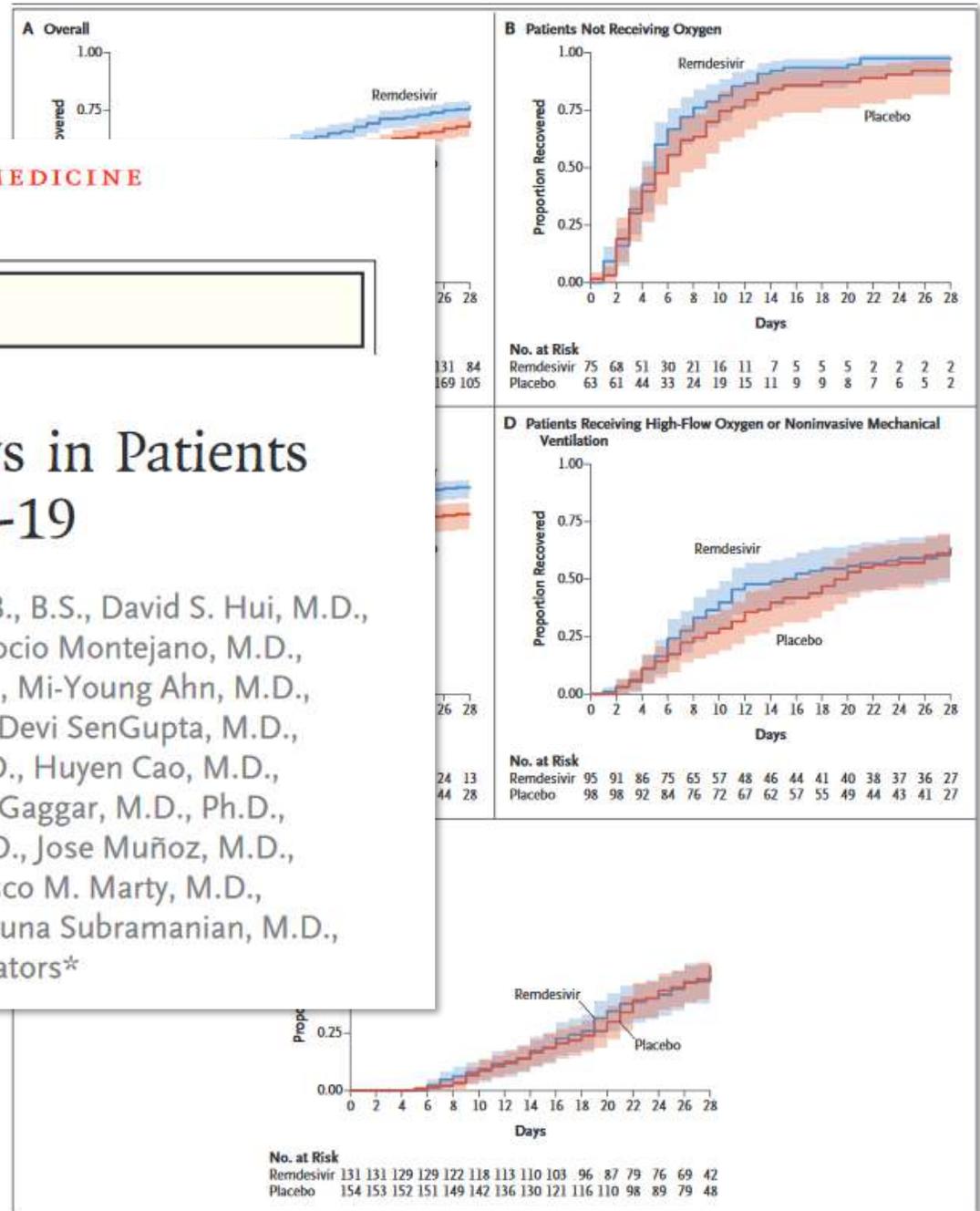
Délai de récupération (sortie
court de 5 jours avec le Remdesivir
hospitalisés avec O2

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Remdesivir for 5 or 10 Days in Patients with Severe Covid-19

Jason D. Goldman, M.D., M.P.H., David C.B. Lye, M.B., B.S., David S. Hui, M.D., Kristen M. Marks, M.D., Raffaele Bruno, M.D., Rocio Montejano, M.D., Christoph D. Spinner, M.D., Massimo Galli, M.D., Mi-Young Ahn, M.D., Ronald G. Nahass, M.D., Yao-Shen Chen, M.D., Devi SenGupta, M.D., Robert H. Hyland, D.Phil., Anu O. Osinusi, M.D., Huyen Cao, M.D., Christiana Blair, M.S., Xuelian Wei, Ph.D., Anuj Gaggar, M.D., Ph.D., Diana M. Brainard, M.D., William J. Towner, M.D., Jose Muñoz, M.D., Kathleen M. Mullane, D.O., Pharm.D., Francisco M. Marty, M.D., Karen T. Tashima, M.D., George Diaz, M.D., and Aruna Subramanian, M.D., for the GS-US-540-5773 Investigators*

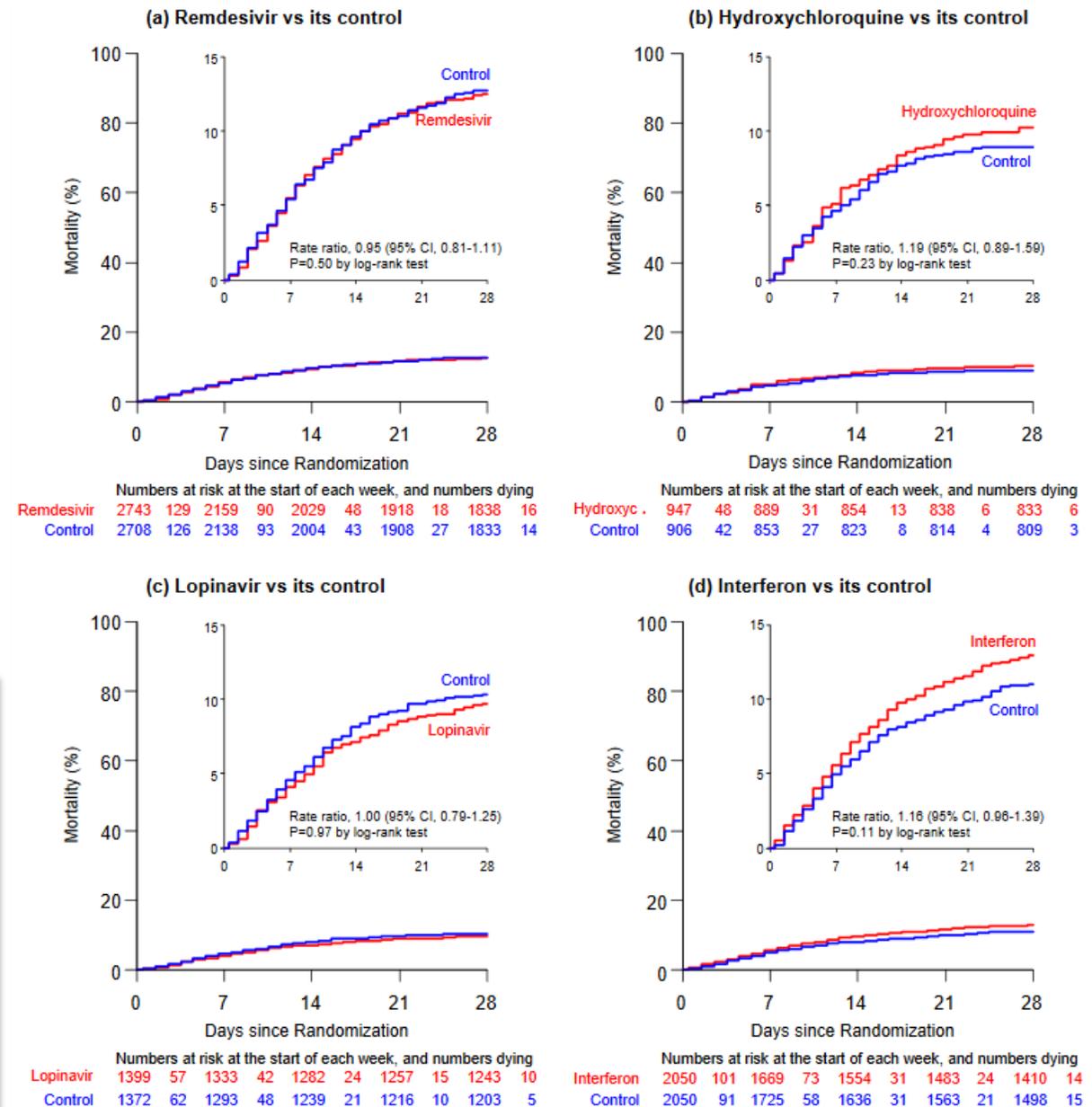


Repurposed antiviral drugs for COVID-19 –interim WHO SOLIDARITY trial results

WHO Solidarity trial consortium*

Mortalité à 28 jours
Patients hospitalisés

	Deaths reported / Patients randomized in ITT analyses (28-day risk, K-M%)		Active-group deaths: log-rank statistics		Ratio of death rates (RR), & 95% CI (or 95% CI, for total)	
	Active	Control	O-E	Variance	Active	Control
(a) Remdesivir						
Age at entry						
<50	61/961 (6.9)	59/952 (6.8)	2.3	29.8	1.08	[0.67-1.73]
50-69	154/1282 (13.8)	161/1287 (14.2)	-7.6	77.5	0.91	[0.68-1.21]
70+	86/500 (20.5)	83/469 (21.6)	-2.9	41.5	0.93	[0.63-1.39]
Respiratory support at entry						
Ventilated	98/254 (43.0)	71/233 (37.8)	7.6	40.8	1.20	[0.80-1.80]
Not ventilated	203/2489 (9.4)	232/2475 (10.6)	-15.8	108.0	0.86	[0.67-1.11]
Total	301/2743 (12.5)	303/2708 (12.7)	-8.3	148.8	0.95	[0.81-1.11]
Heterogeneity around total χ^2_3 : 3.9						2p = 0.50



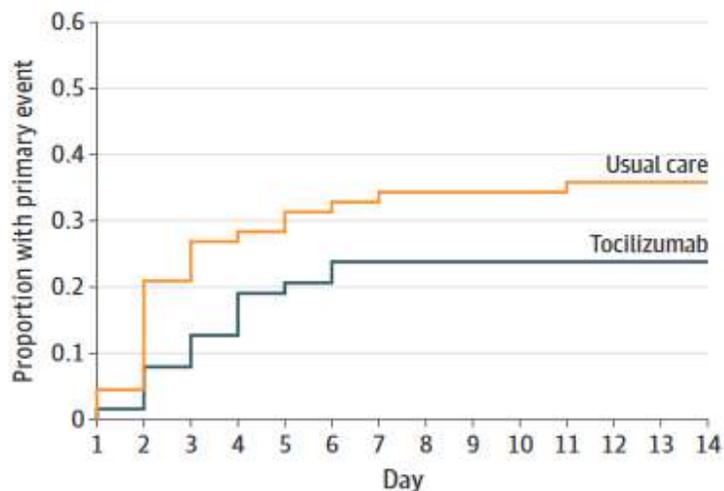
Effect of Tocilizumab vs Usual Care in Adults Hospitalized with COVID-19 and Moderate or Severe Pneumonia

A randomized Clinical Trial

Olivier Hermine, MD, PhD; Xavier Mariette, MD, PhD; Pierre-Louis Tharaux, MD, PhD; Matthieu Resche-Rigon, MD, PhD; Raphaël Porcher, PhD; Philippe Ravaud, MD, PhD; for the CORIMUNO-19 Collaborative Group

« RCT » Tocilizumab (n=63) vs SOC (n=67)

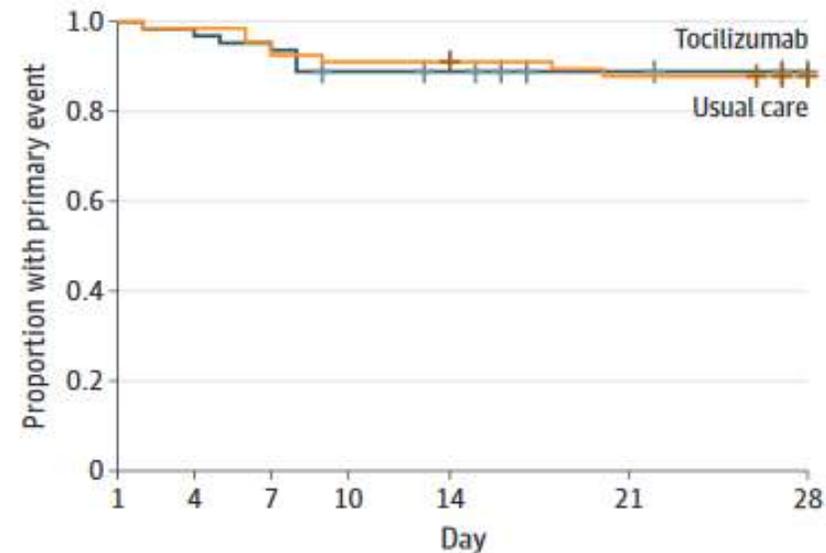
A Probability of primary outcome, death or MV, HFO, or NIV, at day 14



Parameter	Value
Median HR	0.58
90% CrI	0.33-1.00
95% CrI	0.30-1.11
P (HR <1)	0.95
P (HR <0.95)	0.93
P (HR <0.85)	0.87
P (HR <0.8)	0.83

No. at risk	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Tocilizumab	63	62	58	55	51	50	48	48	48	48	48	48	48	48
Usual care	67	64	53	49	48	46	45	44	44	44	44	43	43	43

C Probability of overall survival at day 28



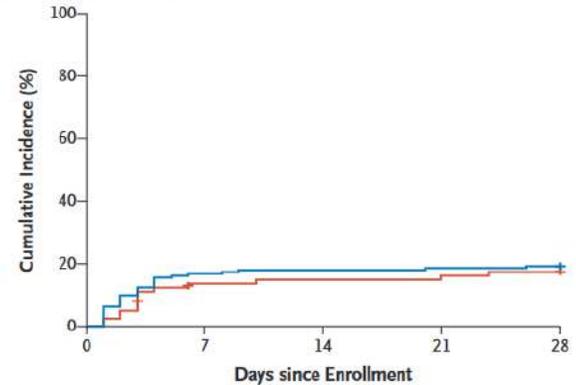
No. at risk	1	4	7	10	14	21	28
Tocilizumab	63	62	60	55	54	50	46
Usual care	67	66	64	61	61	56	50

Efficacy of Tocilizumab in Patients Hospitalized with Covid-19

J.H. Stone, M.J. Frigault, N.J. Serling-Boyd, A.D. Fernandes, L. Harvey, A.S. Foulkes, N.K. Horick, B.C. Healy, R. Shah, A.M. Bensaci, A.E. Woolley, S. Nikiforow, N. Lin, M. Sagar, H. Schrage, D.S. Huckins, M. Axelrod, M.D. Pincus, J. Fleisher, C.A. Sacks, M. Dougan, C.M. North, Y.-D. Halvorsen, T.K. Thurber, Z. Dagher, A. Scherer, R.S. Wallwork, A.Y. Kim, S. Schoenfeld, P. Sen, T.G. Neilan, C.A. Perugino, S.H. Unizony, D.S. Collier, M.A. Matza, J.M. Vinh, K.A. Bowman, E. Meyerowitz, A. Zafar, Z.D. Drobni, M.B. Bolster, M. Kohler, K.M. D'Silva, J. Dau, M.M. Lockwood, C. Cubbison, B.N. Weber, and M.K. Mansour, for the BACC Bay Tocilizumab Trial Investigators*

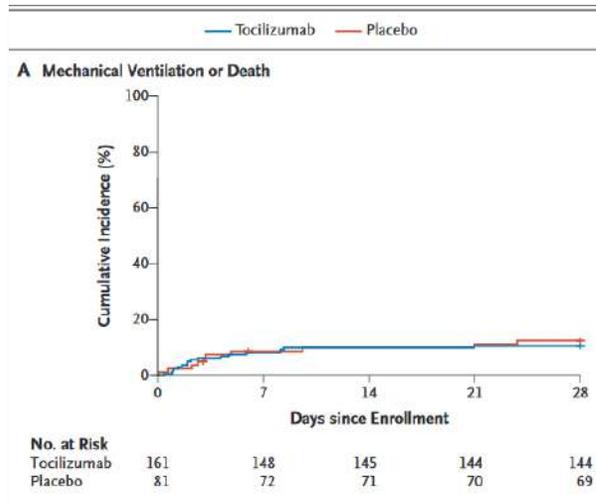
RCT Tocilizumab (n=161) vs placebo (n=81), double aveugle

B Clinical Worsening on Ordinal Scale

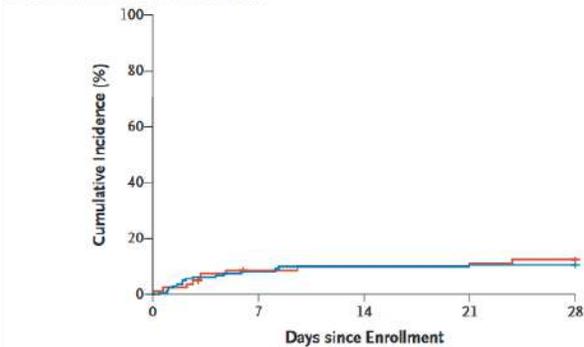


No. at Risk

Tocilizumab	161	134	132	131	130
Placebo	81	68	67	66	65



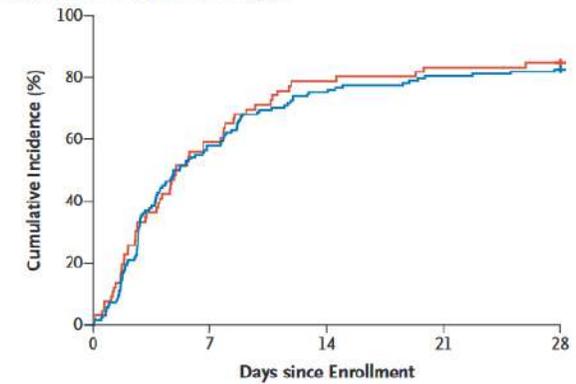
A Mechanical Ventilation or Death



No. at Risk

Tocilizumab	161	148	145	144	144
Placebo	81	72	71	70	69

C Discontinuation of Supplemental Oxygen



No. at Risk

Tocilizumab	138	58	34	27	24
Placebo	66	27	14	11	10

Tocilizumab in Hospitalized Patients With COVID-19 Pneumonia

Ivan Rosas, Norbert Bräu, Michael Waters, Ronaldo C. Go, Bradley D. Hunter, Sanjay Bhagani, Daniel Skiest, Mariam S. Aziz, Nichola Cooper, Ivor S. Douglas, Sinisa Savic, Taryn Youngstein, Lorenzo Del Sorbo, Antonio Cubillo Gracian, David J. De La Zerda, Andrew Ustianowski, Min Bao, Sophie Dimonaco, Emily Graham, Balpreet Matharu, Helen Spotswood, Larry Tsai, Atul Malhotra



- RCT Tocilizumab (n=294) vs placebo + SOC (n=144)
- Pas de différence sur l'état clinique (haut débit d'O₂, ventilation mécanique / décès) à J28
- Pas de différence en termes de mortalité toutes causes à J28
- Diminution de la durée d'hospitalisation (- 8 jours) et en réanimation (-5.8 jours)
- SAE identiques

Convalescent plasma for patients with severe COVID-19; a matched cohort study

Ralph Rogers, M.D.¹, Fadi Shehadeh, M.Eng.¹, Evangelia K. Mylona, M.Eng.¹, Josiah Rich, M.D., M.Ph.¹, Marguerite Neill, M.D.¹, Francine Touzard-Romo, M.D.¹, Sara Geffert, M.D.¹, Jerome Larkin, M.D.¹, Jeffrey A. Bailey, M.D., Ph.D.², Shaolei Lu, M.D., Ph.D.², Joseph Sweeney, M.D.², Eleftherios Mylonakis, M.D., Ph.D.¹

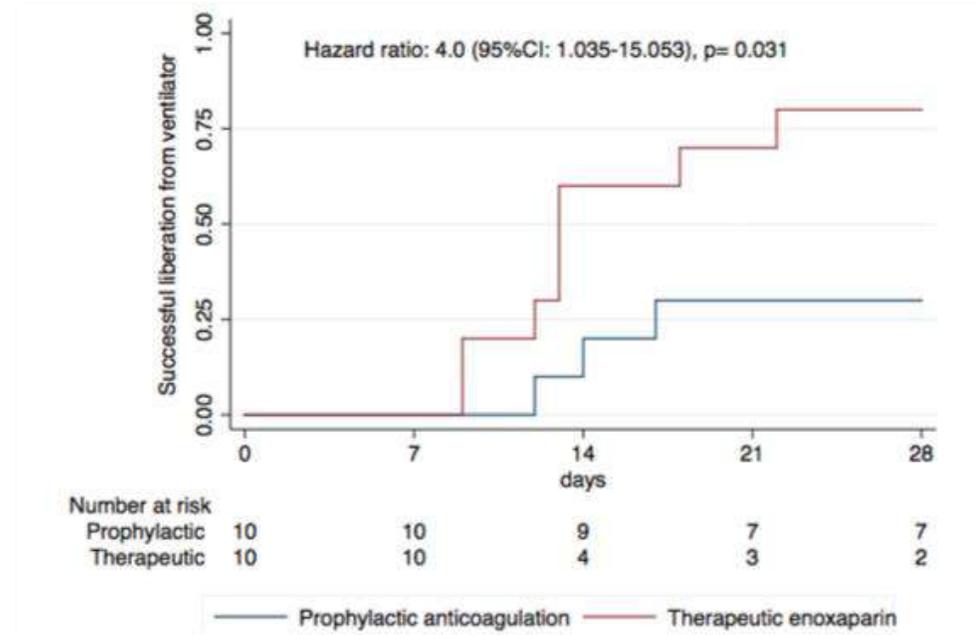
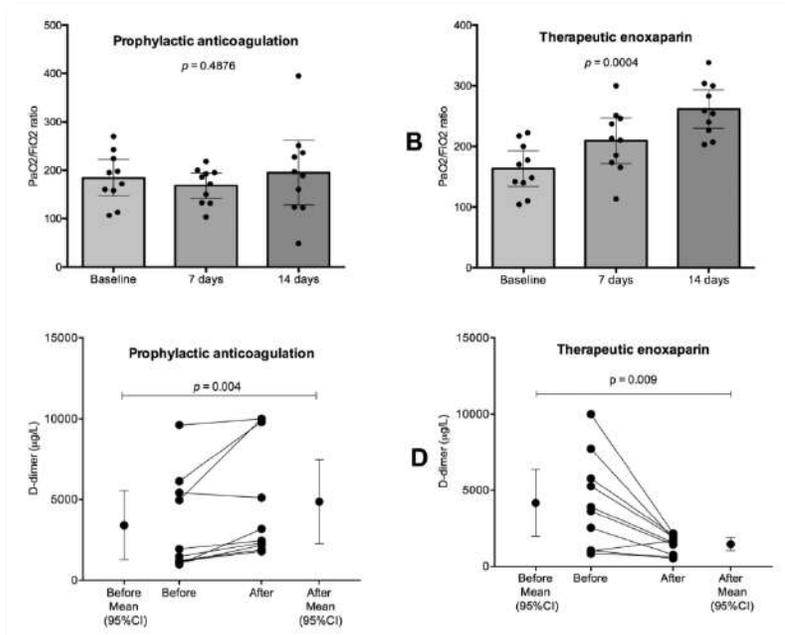
Cohort matchée
64 PC vs 177 contrôles
2.8% réactions transfusionnelles / unité transfusée

All cause in-hospital mortality	Unadjusted HR (95% CI)	Adjusted HR (95% CI)	
		Model 1 ^a	Model 2 ^b
Overall (n = 64)	0.73 (0.32 – 1.69)	0.91 (0.39 – 2.15)	0.93 (0.39 – 2.20)
AI ≥ 1.4 ^c (n = 32)	1.08 (0.41 – 2.80)	1.09 (0.41 – 2.86)	1.17 (0.43 – 3.19)
AI ≥ 5 ^d (n = 18)	0.35 (0.05 – 2.62)	0.38 (0.05 – 2.98)	0.39 (0.05 – 3.08)

Therapeutic versus prophylactic anticoagulation for severe COVID-19: A randomized phase II clinical trial (HESACOVID)

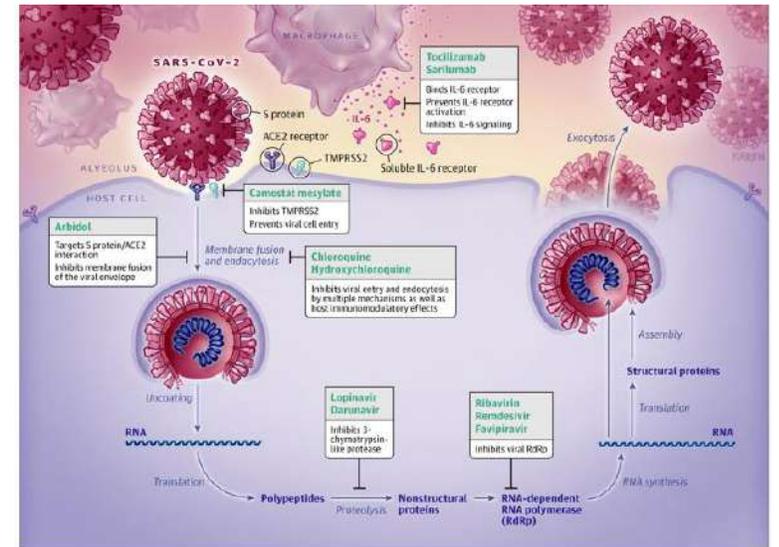
Anna Cristina Bertoldi Lemos^a, Douglas Alexandre do Espírito Santo^a, Maísa Cabetti Salvetti^b, Renato Noffs Gilio^b, Lucas Barbosa Agra^a, Antonio Pazin-Filho^a, Carlos Henrique Miranda^{a,*}

- 10 patients enoxaparine curatif vs 10 patients enoxaparine prophylactique
- ARDS/ ventilation mécanique
- Ddimères > 1000



Multiplés molécules en cours d'évaluation

- Antiviraux
 - Molnupiravir, Atazanavir, Daclatasvir, Sofusbuvir, Galidesivir....
- Anti-inflammatoires
 - Anti-cytokines
 - Anti-JAK: baricitinib, tofacitinib...
 - Anti-BTK
 - Cellules mésenchymateuses
- Anti-complément



JAMA May 12, 2020 Volume 323, Number 18

SARS-CoV-2 Neutralizing Antibody LY-CoV555 in Outpatients with Covid-19

Peter Chen, M.D., Ajay Nirula, M.D., Ph.D., Barry Heller, M.D., Robert L. Gottlieb, M.D., Ph.D., Joseph Boscia, M.D., Jason Morris, M.D., Gregory Huhn, M.D., M.P.H.T.M., Jose Cardona, M.D., Bharat Mocherla, M.D., Valentina Stosor, M.D., Imad Shawa, M.D., Andrew C. Adams, Ph.D., Jacob Van Naarden, B.S., Kenneth L. Custer, Ph.D., Lei Shen, Ph.D., Michael Durante, M.S., Gerard Oakley, M.D., Andrew E. Schade, M.D., Ph.D., Janelle Sabo, Pharm.D., Dipak R. Patel, M.D., Ph.D., Paul Klekotka, M.D., Ph.D., and Daniel M. Skovronsky, M.D., Ph.D., for the BLAZE-1 Investigators*

Phase 2

Diminution de la charge virale

REGN-COV2 antibodies prevent and treat SARS-CoV-2 infection in rhesus macaques and hamsters

Alina Baum¹, Dharani Ajithdoss¹, Richard Copin¹, Anbo Zhou¹, Kathryn Lanza¹, Nicole Negron¹, Min Ni¹, Yi Wei¹, Kusha Mohammadi¹, Bret Musser¹, Gurinder S. Atwal¹, Adelekan Oyejide¹, Yenny Goetz-Gazi², John Dutton², Elizabeth Clemmons², Hilary M. Staples², Carmen Bartley², Benjamin Klaffke², Kendra Alfson², Michal Gazi², Olga Gonzalez², Edward Dick Jr.², Ricardo Carrion Jr.², Laurent Pessaint³, Maciel Porto³, Anthony Cook³, Renita Brown³, Vaneesha Ali³, Jack Greenhouse³, Tammy Taylor³, Hanne Andersen³, Mark G. Lewis³, Neil Stahl¹, Andrew J. Murphy¹, George D. Yancopoulos¹, Christos A. Kyratsous^{1*}

- Cocktail d'anticorps monoclonaux dirigés contre la protéine Spike
- Curatif ou prophylactique
- Animaux macaques et hamster
- Phase 1-2 en cours;
 - patients hospitalisés
 - Patients ambulatoires
 - Prophylaxie chez sujets contact