

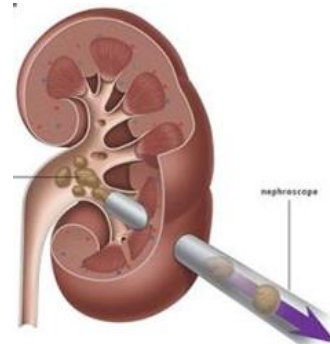
# **Falacias con los datos**

# Paradoja de simpson

En un estudio se compararon los porcentajes de éxito de la extracción de cálculos renales según el método utilizado.



Cirugía Abierta	Nefrolitotomía percutánea
78%	83%





# Paradoja de simpson

El estudio concluía que lo mejor era la nefrolitotomía percutánea.

Sin embargo, partiendo el dataset de otra forma lo que se puede ver es distinto.

<https://www.bmj.com/content/309/6967/1480.full>

# Paradoja de simpson

	Cirugía Abierta	Nefrolitotomía percutánea
Piedra <2cm	93%	83%
Piedra >=2cm	73%	69%

Lo que sucede es que los datos que se tienen son de tratamientos reales, en donde a más grande la piedra más chances hay de ir a cirugía.

# Paradoja de simpson

	Cirugía Abierta	Nefrolitotomía percutánea
Piedra <2cm	93%	83%
Piedra >=2cm	73%	69%

No es que la cirugía sea peor, sino que se le suelen asignar los casos más complejos.



# Paradoja de simpson: Solución?

Podemos agarrar a la mitad de los pacientes y arbitrariamente elegirlos al azar un tratamiento.

En medicina esto sería bastante polémico, pero sirve para muchos otros casos en donde hacer este tipo de pruebas no mata a nadie. Esto se llama **validación cruzada**.



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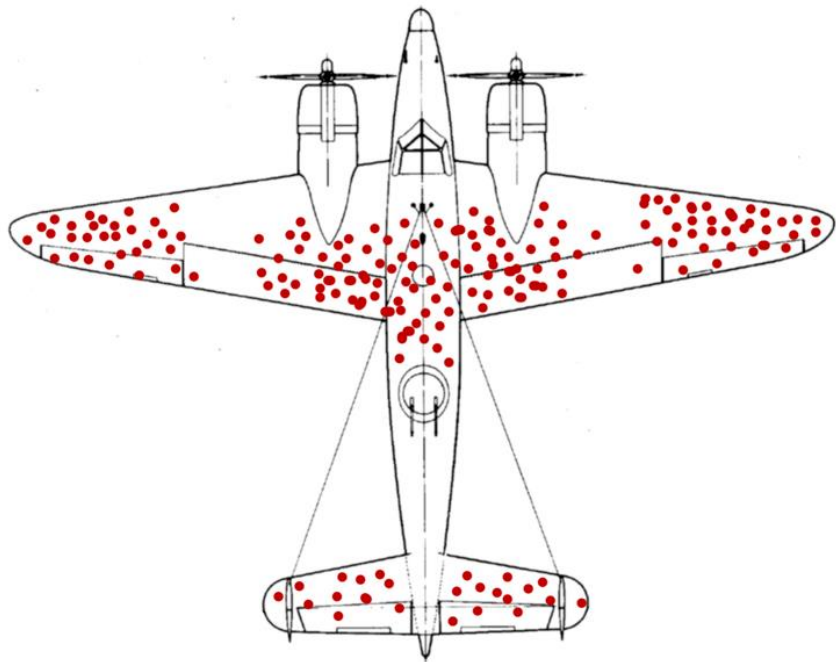
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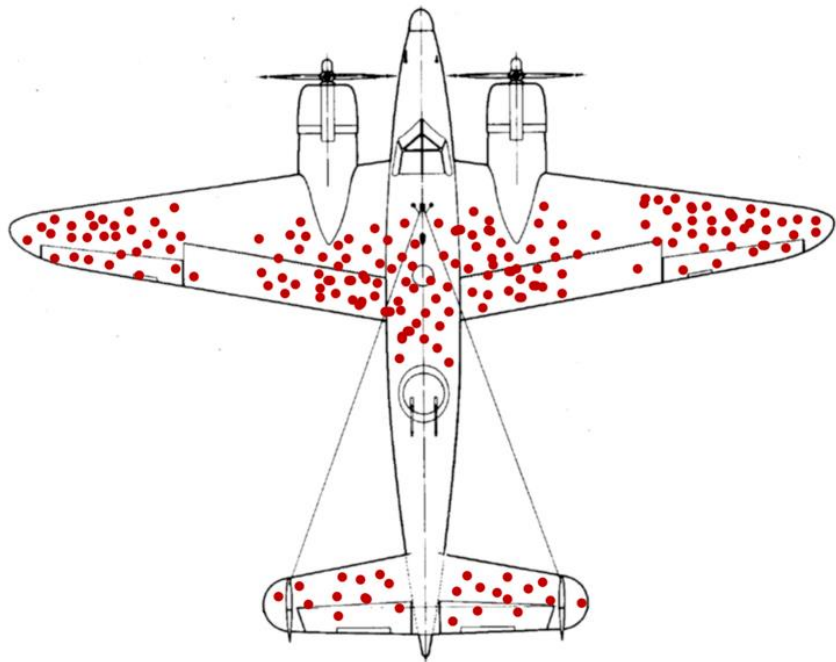
# Sesgo de supervivencia



Estados Unidos de cara a la segunda guerra mundial analiza los aviones que vuelven del combate.

Concluye que debe reforzarlos en donde más se dañaron.

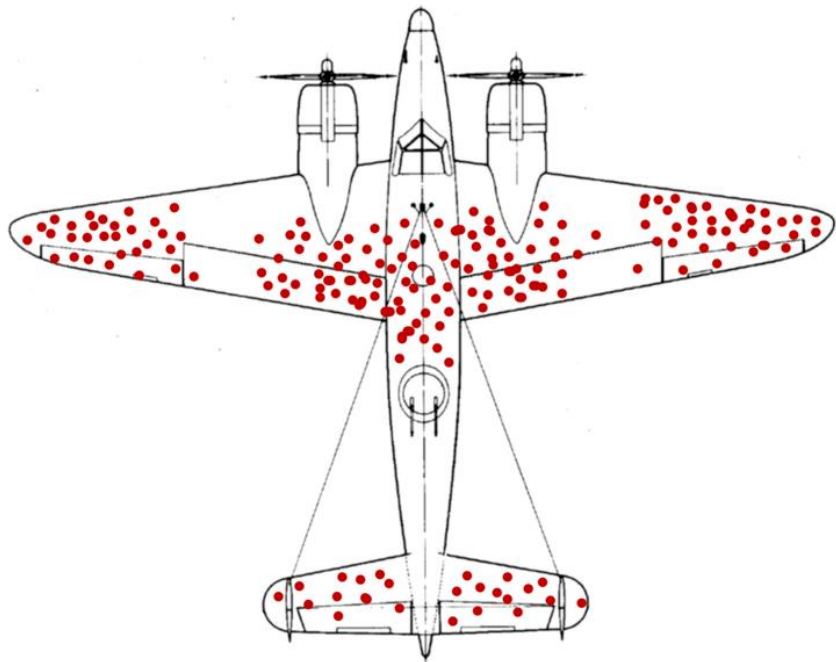
# Sesgo de supervivencia



Resulta que estaban dañados en todos los lugares que no son críticos, porque pudieron volver.

Alguien nota esto y indica que en realidad se debe reforzar los lugares en donde no vemos daños de los que volvieron.

# Sesgo de supervivencia: Fix



Siempre hay que preguntarnos, ¿cuál es el origen de nuestros datos?