

# DAN Europe's Emergency Assistance 2018-2021: A Statistical Study

DAN Europe keeps detailed records of the emergencies that it handles through the 24/7 hotline and its network of diving doctors and specialists. We thought it would be interesting to examine and compare the emergency data the two years prior to the COVID-19 pandemic to that of the last two years, and identify any possible trends and determine what they might mean.

## Diving VS Non-Diving Accidents

As might be expected, the overall number of reported accidents fell steeply from the two years before the pandemic to 2020 and 2021 when lockdowns and travel restrictions were in place. The number of reported accidents in 2018 and 2019 were 1656 and 1810 respectively as shown in Table 1, or an average of 1733 accidents reported a year. This compares to 931 and 932 in 2020 and 2021 during the pandemic, with an average of 932/year—or a decline of approximately 46%.

### DIVING ACCIDENTS TOTALS

Diving accident type	2018	2019	2020	2021
DCI	292	271	182	200
SUSPECTED DCI	129	159	70	106
BAROTRAUMA	150	171	74	91
SUSPECTED BAROTRAUMA	65	113	76	82
DIVING DEATH	17	12	8	15
GAS TOXICITY/CBG		1	1	3
MARINE LIFE	34	50	19	11
NEAR MISSES	13	10	4	11
OTHER DIVING	142	134	70	72
TRAUMA DIVING DRY	37	39	20	18
TRAUMA DIVING WET	64	78	50	46
<b>Total</b>	<b>943</b>	<b>1038</b>	<b>574</b>	<b>655</b>

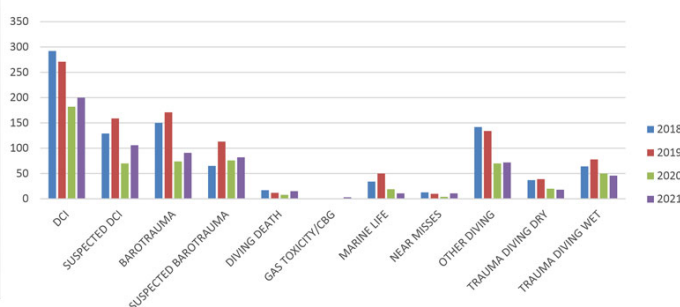


Table 1: # of accidents per year by type. Please note that some incident numbers, for example the number of suspected DCI or barotrauma cases are sometimes “recategorized” after a report is issued based on further medical review, resulting in slight changes to the numbers.

Figure 1 Shows the number of assistance cases registered by month over the four year period. Note the precipitous fall in reported accidents in the spring of 2020 as the pandemic grew and lock downs were put in place. The number of accidents increased in the summer diving season similar to pre-pandemic years, only to decline again in the fall, in part due to normal seasonality along with continued lock downs and travel restrictions as the next wave of the pandemic hit.

## ASSISTANCE CASES REGISTERED PER MONTH

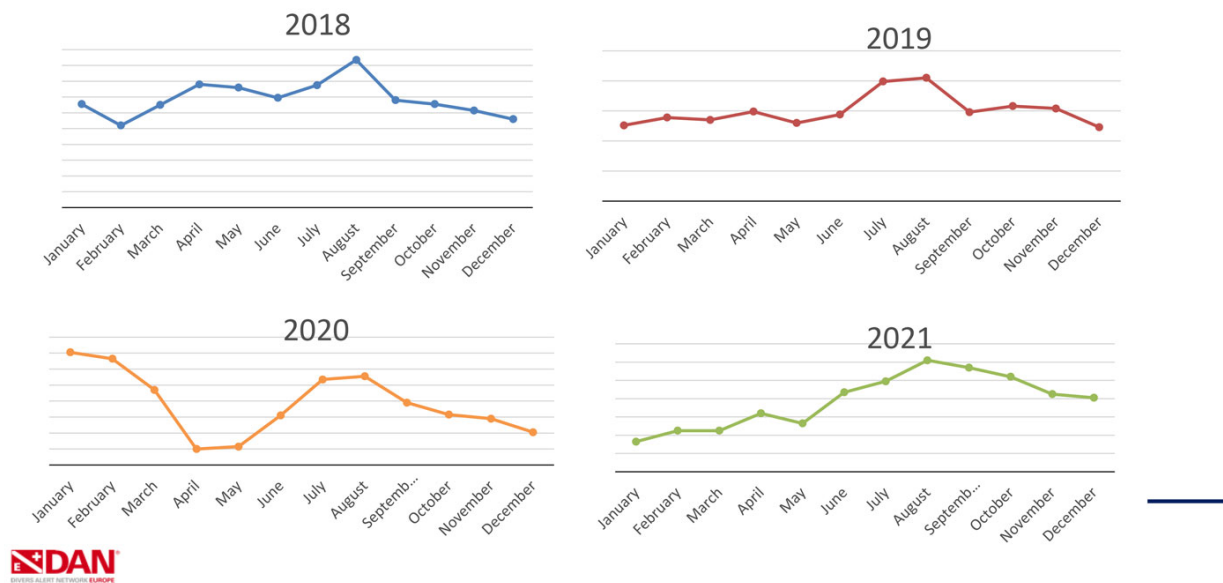


Figure 1: Assistance cases registered per month

Interestingly, as shown in Figure 2 below the percentage of diving vs non-diving cases during the pandemic compared to the two years prior increased: diving incidents represented 67% of the total emergencies reported during the pandemic compared to 58% in the years prior. This is likely explained by the fact that divers were primarily diving locally during the pandemic and spending less time traveling to far away dive destinations, and hence incurring fewer non-diving emergencies.

## ASSISTANCES OPENED PER MONTH

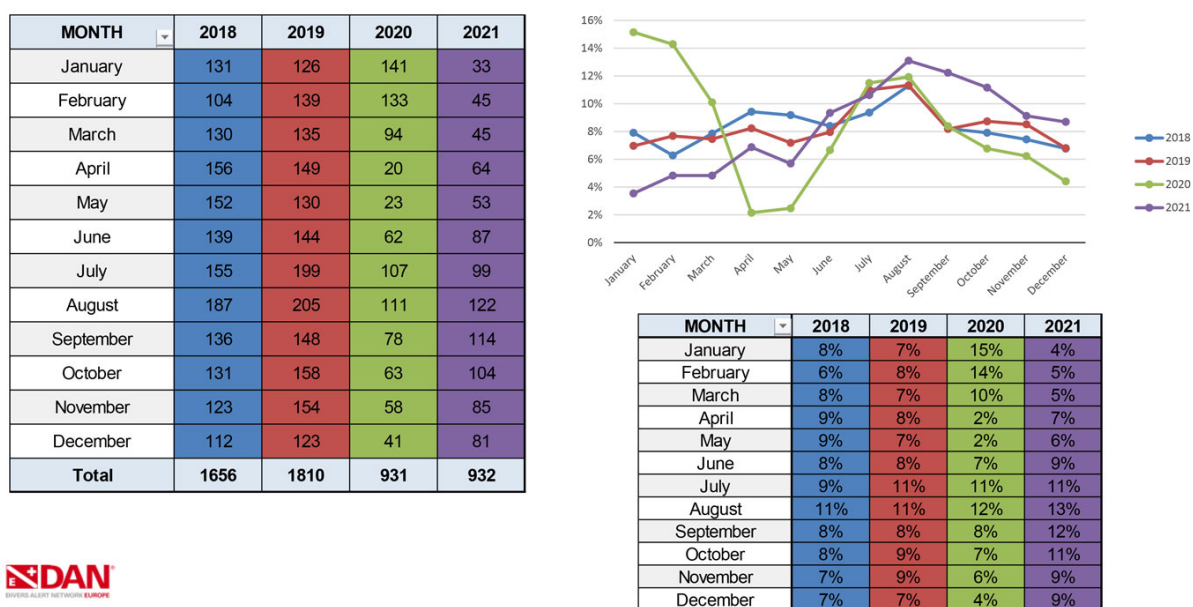


Figure 2: Percentage of Assistance Cases Opened

## Types of Diving Accidents

Table 2 shows diving accidents by type over the four year period. Similar to total reported accidents, the number of diving accidents fell dramatically during the last two years of the pandemic compared to the two years before. In addition, we see that the number of accidents increased from 2020 to 2021, presumably as more members were able to return to diving.

Note that decompression illness (DCI) and suspected DCI represented the majority of accidents in all four years, followed by barotrauma and suspected barotrauma. In fact, the types of accidents by percentage seem somewhat consistent year to year. The bar chart in Figure 3 shows the percentage of cases by type over the four year period.

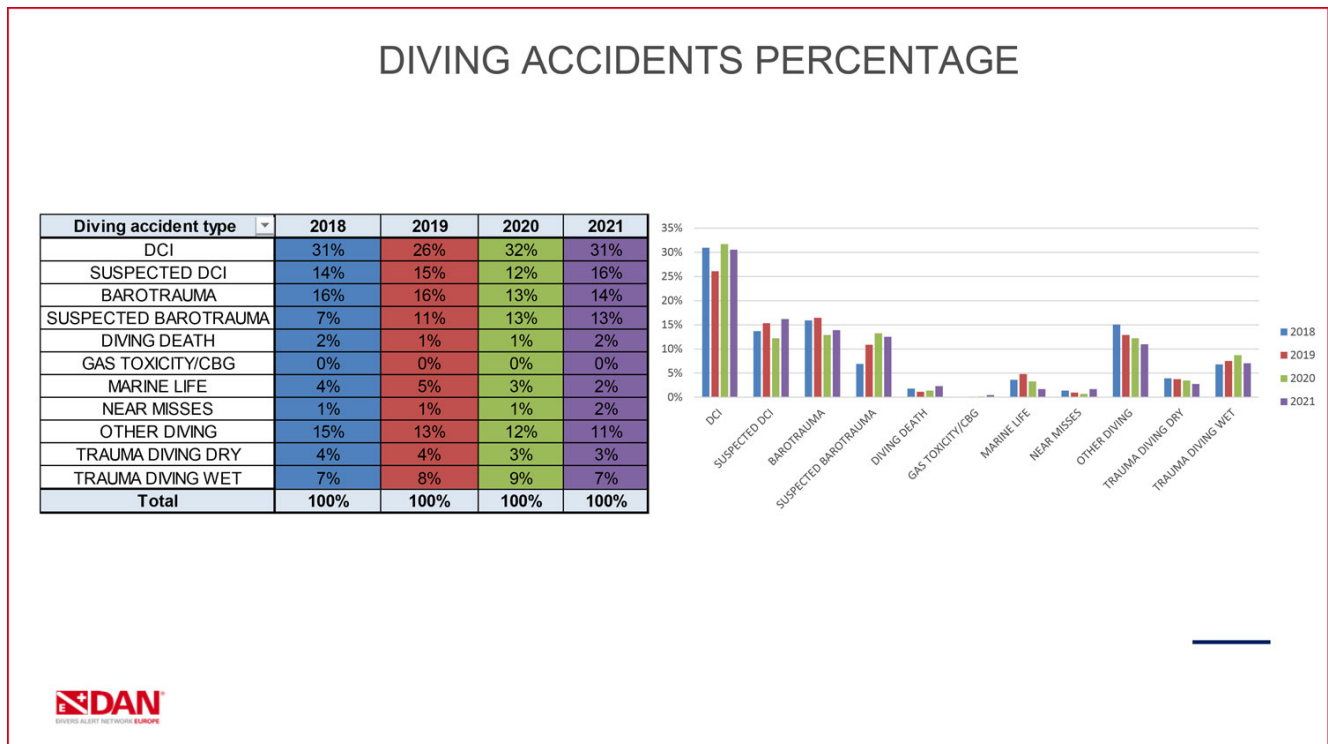


Fig 3: Dive Accident Type By %

Diving a bit deeper into the data, Figure 4 shows the Ear barotrauma is the predominant injury followed by pulmonary and sinus squeezes, which are common in freediving. Similarly, Table 4 shows the breakdown of non-diving accidents as a percentage of the total. Note that unexpected illness was the primary cause of non-diving accidents over the four year period.

## BAROTRAUMAS IN 4 YEARS (Confirmed and suspected)

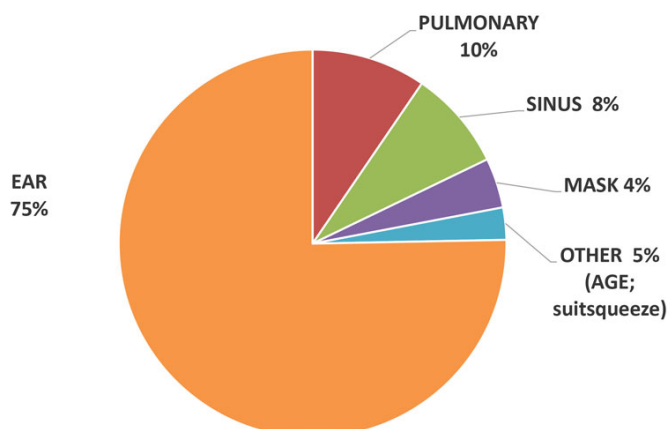
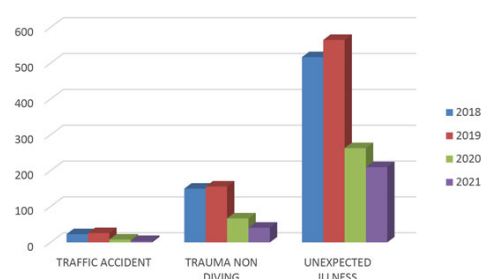


Figure 4

## NON DIVING ACCIDENTS TOTALS

Accident/illness reported	2018	2019	2020	2021
TRAFFIC ACCIDENT	23	26	8	4
TRAUMA NON DIVING	150	156	67	41
UNEXPECTED ILLNESS	517	565	263	210
<b>Tot</b>	<b>690</b>	<b>747</b>	<b>338</b>	<b>255</b>

Accident/illness reported	2018	2019	2020	2021
TRAFFIC ACCIDENT	3,3%	3,5%	2,4%	1,6%
TRAUMA NON DIVING	21,7%	20,9%	19,8%	16,1%
UNEXPECTED ILLNESS	74,9%	75,6%	77,8%	82,4%



Type of illness	2020	2021
Covid 19	4	16
Suspected Covid 19	8	
<b>Tot</b>	<b>12</b>	<b>16</b>
Percentage of tot illnesses	4,6%	5,7%



Table 4

Finally, Figure 5, shows the percentage breakdown of reported accidents by country. Presumably, as mentioned above, travel access and lockdown impacted the country totals. Note for example, Indonesia represented about 12% of the reported accidents in 2018/2019, but fell to 9.2% in 2020, and 4.1% in 2021, likely reflecting travel restrictions. Rest of World (ROW), i.e., DAN Europe countries not listed by name, consistently accounted for about 28-33% of the total over the four year period.

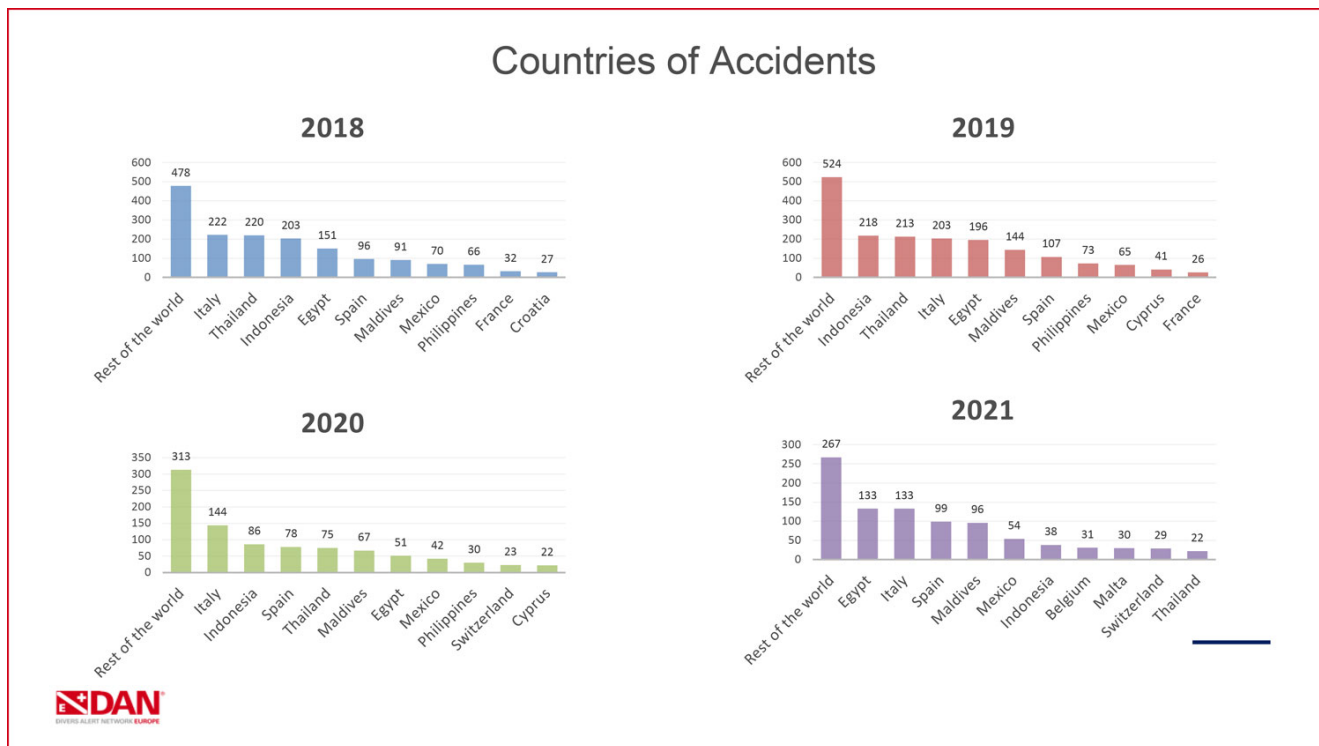


Figure 5: Countries by %

## Uniquely DAN

We hope that you found the above accident information useful. Fortunately, as a member, DAN Europe has your back. It is the only diving organization that offers divers a 24/7 medical hotline that will connect you to diving medical officers who speak your own language and are part of DAN's extensive international network of 180+ diving physicians. Because it provides insurance through its own insurance subsidiaries, DAN Europe is also able to authorize the best care from a medical perspective, while managing claims efficiently and according to industry laws and regulations.

In addition, a portion of the monies that DAN Europe collects for insurance goes to fund advancements in diving medical research, which serve as an important benchmark for the global scientific and diving communities. Monies are also used to develop and promote safety campaigns, which focus on increasing diving safety and reducing diving accidents. Dive safely!