Supplementary Appendix: Questionnaire for Data Collection in the Study

Diving Practices in Technical Divers' Community and Behaviour towards Self-reported Unusual Symptoms. Gouin et al.

Characterization of Tek divers community "TEK-Care"

*Obligatoire

1.	1. You are :
	Une seule réponse possible.
	A man
	A woman
	Other
2.	2. How old are you (in years) ? *
	Une seule réponse possible.
	18-25
	26-35
	36-45
	46-55
	>56
3.	3. How much do you weigh (in kilograms) ? *
4.	4. How tall are you (in centimeters) ? *

5.	5. Currently, do you have one or several "risk factors" for scuba diving ? (multiple answers allowed) *
	Plusieurs réponses possibles.
	Smoking
	Arterial hypertension
	Diabetes mellitus
	Heart disease (heart attack history, valvular disease or arrhythmia)
	Relatively low level of physical activity (moderate intensity exercise like fast walking, running, biking < 60 minutes per week)
	None of the above
6.	6. What is your home country?*
	Une seule réponse possible.
	Belgium
	Canada
	Germany
	Ireland
	Italia
	Luxembourg
	Mainland France
	French overseas territories
	United Kingdom
	USA
	Spain
	Switzerland
	Other

7.	7. How long have you been practicing scuba diving (since your first scuba course) (in years) ? *
	Une seule réponse possible.
	< 1
	Between 1 and 5
	Between 6 and 10
	Between 11 and 20
	> 20
8.	8. How often do you practice scuba diving ? *
	Une seule réponse possible.
	Continuous practice all year long without discontinuity
	Continuous practice all year long but with short interruptions < 6 months
	Discontinuous practice with one (or several) interruptions for one or more year, for any reason
	Occasional practice (a few dives per year maximum)
	Oon't know / No position
9.	9. How many dives did you realize during your years of practice (all types of dives) ? *
	Une seule réponse possible.
	<100
	Between 100 and 500
	Between 501 and 1000
	Between 1001 and 3000
	>3000

10.	10. For how long have you been certified for your first trimix certification (OC ro SCR/CCR) (in years) ? *
	Une seule réponse possible.
	<u> </u>
	Between 1 and 5
	Between 6 and 10
	Between 11 and 20
	> 20
11.	11. How many Trimix dives did you realize during your years of practice?*
	Une seule réponse possible.
	< 20
	Between 20 and 50
	Between 51 and 100
	Between 101 and 500
	> 500
12.	12. How many Trimix dives do you do in average per year ? *
	Une seule réponse possible.
	< 5
	Between 6 and 10
	Between 11 and 20
	Between 20 and 30
	> 30

	Une seule réponse possible.
	In open circuit only In rebreather only Both (OC and SCR/CCR) Don't know / No position
14.	14. If you use a rebreather, what kind of equipment do you mostly use?
	Une seule réponse possible.
	electronic Closed Circuit Rebreather (eCCR) mecanic Closed Circuit Rebreather (mCCR) electronic Semi-Closed Rebreather (eSCR) mecanic Semi-Closed Rebreather (mSCR) Do not use rebreather
15.	15. You mostly Trimix dive : *
	Une seule réponse possible.
	In your home country
	In foreign countries
	More on less equally between home and foreign countries Don't know / No position
16.	16. You mostly Trimix dive : (multiple answers allowed) * Plusieurs réponses possibles.
	In open sea In lake or quarry In cave Don't know / No position

13. You Trimix dive: *

17.	17. You mostly Trimix dive : *
	Une seule réponse possible.
	In very cold water (< 8°C)
	In cold water (between 8 and 20°C)
	In temperate water (between 20 and 25°C)
	In tropical water (> 25°C)
18.	18. You mostly Trimix dive : *
	Une seule réponse possible.
	In wetsuit
	In semi-dry wetsuit
	In drysuit WITHOUT heating system
	In drysuit WITH heating system
19.	19. Generally, in what context do you do your Trimix dives ? *
	Une seule réponse possible.
	Recreational
	Professional for teaching (instructor)
	Other professional activity (military, science, media)
	On't know / No position
20.	20. What is your highest level of certification in Trimix diving?*
	Une seule réponse possible.
	Helitrox Diver / Adv Rec Trimix Diver / Extended Range (Prerogatives 45 meters)
	Normoxic Trimix Diver / Mixed Gas diver / Tec Trimix 65 / Technical Extended Range / PTH 70 (Prerogatives 60-70 meters)
	Hypoxic Trimix Diver / Expedition Trimix Diver / Adv Mixed gas Diver / Tec trimix Diver / PTH 120 (Prerogatives ≥ 100meters)

21.	21. In what Tek diving organization(s) are you certified for this highest level? (multiple answers allowed) *
	Plusieurs réponses possibles.
	□ IANTD (International Association of Nitrox and Technical Divers) □ TDI (Technical Diving International) □ SSI (Scuba schools international) □ FFESSM (French Federation of Underwater Studies and Sports) □ PADI (Professional Association of Diving Instructors) □ GUE (Global Underwater Explorers) □ FEBRAS/LIFRAS (Francophone League of Research and Underwater Activitiess) Autre :
Di	ve decompression planning
22.	22. Which algorithm on your primary dive computer do you use to calculate your decompression ? *
	Une seule réponse possible.
	Bühlmann Passer à la question 29
	Varying Permeability Model (VPM-B) Passer à la question 33
	Reduced Gradient Bubble Model (RGBM) Passer à la question 33 Don't know / No opinion Passer à la question 33
23.	23. Which bottom mix (OC) or diluant gas (SCR/CCR) do you usually use for a 50-meters dive (expressed in Tx O2/He)? *
24.	24. If you are qualified, which bottom mix (OC) or diluant gas (SCR/CCR) do you usually use for a 80-meters dive (expressed in Tx O2/He)?

25.	25. If you are qualified, which bottom mix (OC) or diluant gas (SCR/CCR) do you usually use for a dive beyond 100 meters (expressed in Tx O2/He)?
26.	26. During a rebreather dive with a fixed partial pressure of oxygen, what setpoint do you usually use during the bottom time? * Une seule réponse possible.
	1.1 bar 1.2 bar 1.3 bar 1.4 bar 1.5 bar 1.6 bar Do not dive with rebreather/ Don't know / No opinion
27.	27. During rebreather dive with a fixed partial pressure of oxygen, what setpoint do you usually use during the ascent time? * Une seule réponse possible. 1.2 bar 1.3 bar 1.4 bar 1.5 bar Do not dive with rebreather/ Don't know / No opinion

28. During a rebreather dive with a fixed partial pressure of oxygen, what setpoint do you usually use from the 6-meters decompression stop?*												
Une seule réponse possible.												
1.3 bar												
1.4	bar											
1.5	bar											
1.6 bar												
Don't dive with rebreather/ Don't know / No opinion												
er à la que	stion 33											
dient Fac	tors for	Bühlman										
do you n	ormally ι	use for a s	50-meter	s dive wi	th a total	ascent tir	ne < 60 n	ninutes ?	*			
Une seule	réponse p	ossible pa	r ligne.									
Une seule	réponse p 10	ossible pa 20	r ligne. 30	40	50	60	70	80	90			
Une seule				40	50	60	70	80	90			
				40	50	60	70	80	90			
Low GF				40	50	60	70	80	90			
Low GF High GF 22b. In th	10	20	30 onpression 50-meter	n algorithm	m, which	Gradient	Factors (GF) low a	and high			
Low GF High GF 22b. In th	10	an deconuse for a s	30 onpression 50-meter	n algorithm	m, which	Gradient	Factors (GF) low a	and high			
Low GF High GF 22b. In th	10 De Bühlm ormally uréponse p	an deconuse for a spossible pa	npression 50-meter	n algorith	m, which	Gradient ascent tir	Factors (GF) low a	and high			
Low GF High GF 22b. In the do you not the seule	10 De Bühlm ormally uréponse p	an deconuse for a spossible pa	npression 50-meter	n algorith	m, which	Gradient ascent tir	Factors (GF) low a	and high			

31.			an decon use for a 8		_		Gradient	Factors (GF) low a	nd high
	Une seule	réponse p	ossible pa	r ligne.						
		10	20	30	40	50	60	70	80	90
	Low GF									
	High GF									
	4									•
32.	do you n	ormally u	an deconuse for a coossible pa	dive beyo			Gradient	Factors (GF) low a	ınd high
		10	20	30	40	50	60	70	80	90
	Low GF									
	High GF									
	4									•

Incidents and illness during your Trimix diver career.

33.	29. During a Trimix dive, did you already presented a loss of consciousness who needed your buddie assistance?*
	Une seule réponse possible.
	Yes, with certainty
	Yes potentially but doubtful
	Probably not but doubful
	No, with certainty
34.	30. During a Trimix dive, have you already presented, in depth, an unusual euphoric feeling, concentration disorders or alteration in judgment and reasoning ? *
	Une seule réponse possible.
	Yes, with certainty
	Yes, potentially but doubtful
	Probably not but doubtful
	No, with certainty
35.	31. During a Trimix dive, have you already presented, in deep depth (beyond 100 meters), uncontrollable shaking of limbs or whole body (excluding shivering due to cold) associated or not with impaired vision, disappearing while ascending?
	Une seule réponse possible.
	Yes, with certainty
	Yes, potentially but doubtful
	Probably not but doubtful
	No, with certainty
	Never reached depth

Unusual intense tiredness

36.	32. Have you already feeled an unusual intense tiredness after a Trimix dive ? *						
	Une seule réponse possible.						
	Yes, with certainty, once Passer à la question 37						
	Yes, with certainty, several times Passer à la question 37						
	Yes, potentially but doubtful Passer à la question 37						
	Probably not but doubtful Passer à la question 40						
	No, with certainty Passer à la question 40						
Pass	er à la question 40						
Ма	nagement of an unusual tiredness						
37.	32a. Did you receive (or take by yourself) normobaric oxygen after this dive (those dives) ? *						
	Une seule réponse possible.						
	Yes						
	No						
	Don't know / No position						
38.	32b. Did you seek medical advice after this dive (those dives) ? *						
	Une seule réponse possible.						
	Yes						
	No						
	Don't know / No position						
39.	32c. Did you receive a hyperbaric oxygen therapy after this dive (those dives) ?						
	Une seule réponse possible.						
	Yes						
	No						

Osteoarticular pain

40.	40. 33. Have you already feeled arm, leg or articular pain, even transient, after Trimix dive? *	
	Une seule réponse possible.	
	Yes, with certainty, once Passer à la question 41	
	Yes, with certainty, several times Passer à la question 41	
	Yes, potentially but doubtful Passer à la question 41	
	Probably not but doubtful Passer à la question 46	
	No, with certainty Passer à la question 46	
Pass	ser à la question 46	
Ma	nagement of osteoarticular pain	
IVIG	magement of osteoal ticular pain	
41.	33a. Did you selfmedicate for pain after this dive (those dives) ? *	
	Une seule réponse possible.	
	Yes	
	No	
	Don't know / No position	
42.	33b. Did you receive (or take by yourself) normobaric oxygen after this dive (those dives) ? *	
	Une seule réponse possible.	
	Yes	
	No	
	Don't know / No position	

43.	33c. Did you seek medical advice after this dive (those dives)?*
	Une seule réponse possible.
	Yes
	◯ No
	Oon't know / No position
44.	33d. Did you receive a hyperbaric oxygen therapy after this dive (those dives) ?
	*
	Une seule réponse possible.
	Yes
	◯ No
45.	33e. Have you got long-lasting sequels as discomfort or pain? *
	Une seule réponse possible.
	Yes
	○ No
	Don't know / No position
D:	zziness and hearing trouble
DI.	zziness and hearing trouble
46.	34. Have you already experimented dizziness, vomiting, ear ringing or hearing
	impairment after a trimix dive (not related to otitis)?*
	Une seule réponse possible.
	Yes, with certainty, once Passer à la question 47
	Yes, with certainty, several times Passer à la question 47
	Yes, potentially but doubtful Passer à la question 47
	Probably not but doubtful Passer à la question 51
	No, with certainty Passer à la question 51

Management of dizziness or hearing trouble

47.	34a. Did you receive (or take by yourself) normobaric oxygen after this dive (those dives) ? *		
	Une seule réponse possible.		
	Yes		
	No		
	Don't know / No position		
48.	34b. Did you seek medical advice after this dive (those dives) ? *		
	Une seule réponse possible.		
	Yes		
	◯ No		
	Don't know / No position		
49.	34c. Did you receive a hyperbaric oxygen therapy after this dive (those dives) ?		
	Une seule réponse possible.		
	Yes		
	No		
50.	34d. Have you got long-lasting sequels as dizziness or hearing discomfort?*		
	Une seule réponse possible.		
	Yes		
	No		
	Don't know / No position		

Neurological trouble

51.	. 35. Have you already feeled an acute back pain, tinglings or a decreased limb strength after a trimix dive ? *	
	Une seule réponse possible.	
	Yes, with certainty, once Passer à la question 52	
	Yes, with certainty, several times Passer à la question 52	
	Yes, potentially but doubtful Passer à la question 52	
	Probably not but doubtful Passer à la question 56	
	No, with certainty Passer à la question 56	
Pass	er à la question 56	
Management of neurological trouble		
52.	35a. Did you receive (or take by yourself) normobaric oxygen after this dive (those dives) ? *	
	Une seule réponse possible.	
	Yes	
	◯ No	
	Don't know / No position	
53.	35b. Did you seek medical advice after this dive (those dives) ? *	
	Une seule réponse possible.	
	Yes	
	○ No	
	Don't know / No position	

54.	35c. Did you receive a hyperbaric oxygen therapy after this dive (those dives) ?		
	Une seule réponse possible.		
	Yes		
	○ No		
55.	35d. Have you got long-lasting sequels as difficulties for limb motricity or urination?*		
	Une seule réponse possible.		
	Yes		
	◯ No		
	Don't know / No position		
Bre	eathing trouble		
56.	36. Have you already experimented breathing difficulty persistent after surfacing associated or not with foamy or bloody spits?*		
	Une seule réponse possible.		
	Yes, with certainty, once Passer à la question 57		
	Yes, with certainty, several times Passer à la question 57		
	Yes, potentially but doubtful Passer à la question 57		
	Probably not but doubtful Passer à la question 63		
	No, with certainty Passer à la question 63		

Passer à la question 63

Management of breathing trouble

ţ	57.	36a. At what depth did this breathing difficulty appear (in meters) ? $\stackrel{\star}{\cdot}$
		Une seule réponse possible.
		on the surface
		6 meters
		10 meters
		20 meters
		30 meters
		40 meters
		50 meters
		60 meters
		70 meters
		80 meters
		90 meters
		> 100 meters
		Don't know / No position
	58.	36b. What was the water temperature (in degree celcius) ? *
		Une seule réponse possible.
		In very cold water (< 8°C)
		In cold water (between 8 and 20°C)
		In temperate water (between 20 and 25°C)
		In tropical water (> 25°C)
!	59.	36c. What kind of equipment did you use during this dive ? *
		Une seule réponse possible.
		Open circuit
		Back mounted counter lung Rebreather
		Front mounted counter lung Rebreather
		Shoulder mounted counter lung rebreather

60.	36d. Did you do an unusual or intense physical effort (intense kicking, heavy load carrying) during this dive ? *
	Une seule réponse possible.
	Yes
	No
	Don't know / No position
61.	36e. Did you receive (or take by yourself) normobaric oxygen after this dive (those dives) ? *
	Une seule réponse possible.
	Yes
	No
	Don't know / No position
62.	36f. Did you seek medical advice after this dive (those dives) ? *
	Une seule réponse possible.
	Yes
	No
	Don't know / No position