1 Drop Dose of MMS1 Can Equate to 1ml of CDH & 2ml of CDS

	 MMS is a 22.4% solution of 80% sodium chlorite powder or flakes (NaClO2) in water. MMS1 is activated MMS. It is MMS plus an activator; when the two are mixed together they produce chlorine dioxide (ClO2). MMS1, CDH and CDS are Chlorine Dioxide Solutions Drop size based on 24 drops = 1 ml (1 drop=0.042 ml) 	
1	(CDS)	
1. 2	why this paper is to prevent under-dosing CDH and CDS when using Protocols.	
2.	<u>Minis Protocols</u> were designed for use with MMS1, not CDH of CDS which need different dosing.	
۶.	Theory: 1 drop of Mixis contains 6.7mg of chlorine dioxide (CLO2) when 24 drops = 1ml. 1 drop=0.042 mi	
4.	Fact : 1 drop of MINIS is <u>activated</u> about 7% externally when combined with 50% citric acid 1-to-1 for 20 to 30 seconds. The remaining MMS in MMS1 should fully activate in a stomach with normal gastric acids.	
5.	Fact: Many people have normal gastric acids to activate residual MMS in MMS1 & CDH; older people less.	
6.	<u>CDH Recipes</u> were designed so each milliliter of CDH will be made from 1 drop of MMS. <u>NOTE</u> : only applies to McRae-Lackney recipes, not to any other recipes.	
7.	<u>1ml of CDH</u> and a 1 drop dose of MMS1 are both made from 1 drop of MMS.	
8.	<u>1ml of CDH</u> and a 1 drop dose of MMS1 both have the potential to produce 6.7mg of CLO2 when ingested in a stomach with adequate gastric acid.	
9.	<u>CDH4%</u> is about 50% activated externally and <u>CDH2%</u> about 25% activated. Fridge life 2 weeks/2 months.	
10.	If there is little or no stomach gastric acid present, CDH will provide more CLO2 than MMS1.	
11.	<u>CDS</u> is fully activated externally and can not increase nor decrease in CLO2 content when in a stomach.	
12.	<u>A recent newsletter</u> from Jim Humble said the maximum amounts of CDH and CDS to use with Protocol 1000 were 3ml and 6ml respectively. Protocol 1000 limits MMS1 to 3 drops per hour.	
13.	Therefore one can conclude that a 3 drop dose of MMS1, 3ml of CDH & 6ml of CDS can deliver the same amounts of CLO2 if adequate stomach acids are present for MMS1 & CDH. Math & photos prove this.	
14.	If no stomach acids are present, then CDS can provide more CLO2 than MMS1 or CDH.	000 ppm
15.	Between zero and normal stomach acids, varying amounts of additional CLO2 can be provided by MMS1 and CDH.	3 mg, x 8 g
16.	MMS Tablets would be a good choice for someone who has little or no gastric acids as they contain an activator and will fully activate in plain water.	
17.	<u>A little math</u> will be necessary to show how much CLO2 is in 6ml of 3000ppm CDS.	
18.	Volume of SCS (liters) x CLO2 Concentration (ppm) = Dose (mg of CLO2) (0.006 x 3000 = 18)	
19.	6ml of CDS contains 18mg of CLO2.	
20.	<u>3 drop dose of MMS1</u> provides 20.1mg of CLO2 if fully activated. (6.7mg/drop of MMS) (3 x 6.7 = 20.1)	
21.	3ml of CDH provides 20.1mg of CLO2 if fully activated. (6.7mg/drop of MMS used to make each ml of CDH)	
22.	It is not possible to measure the total amount of CLO2 that MMS1 or CDH could produce in a stomach, but the maximum possible amounts of CLO2 in milligrams can be calculated by multiplying 6.7 x MMS drops.	
23.	Because stomach acid availability is unknown when ingesting MMS1 or CDH, the amount of CLO2 that may be produced is unknown. Therefore, knowing the external CLO2 concentration isn't useful information.	
	updated 1 July 2016	