

Studies at DDRC

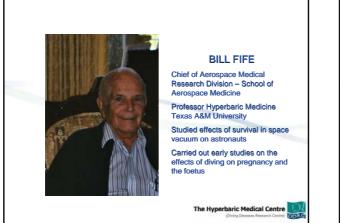
Men & Women in Diving St Leger Dowse M, Bryson P, Gunby A, Fife W. Comparative data from 2250 male and female sports divers: diving patterns and decompression sickness. Aviat Space Environ Med 2002; 73(8):747-749

Scuba Diving & the Menstrual Cycle Stleger Dows M, Gunby A, Moncad R, File C, Morenan J, Bryson P, Problems associated with scuba diving are not evenly distributed across a menstrual cycle J Obstet Gymaeol. 2006 Apr;26(3):216-21.

Women & Decompression illness Lee V, St Leger Dowse M, Edge C, Gunby A, Bryson P. Decompression sickness in women: a possible relationship with the menstrual cycle. Aviat Space Environ Mod 2003;74(1):1177-1182

Pregnancy and Diving St Leger Dowse M, Gunby A, Moncad R, Fife C, Bryson P. Scuba diving and pregnancy: can we determine safe limits. J Obstet Gynaecol. 2006 Aug;26(6):509-13.

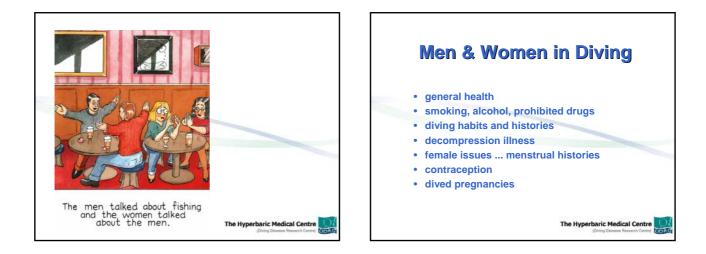
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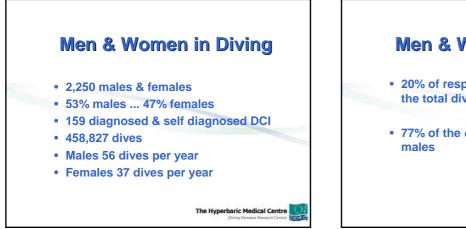


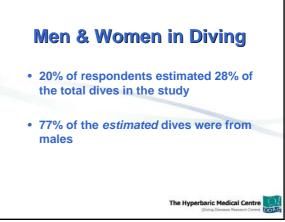


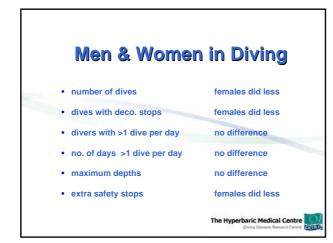






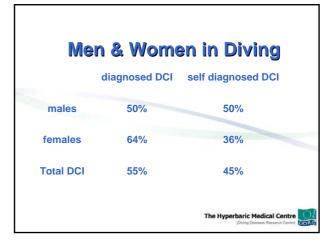


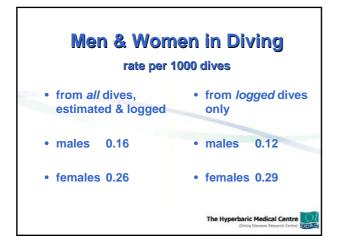


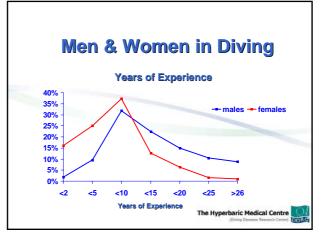






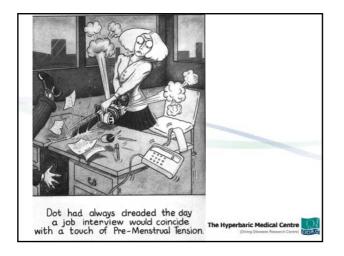


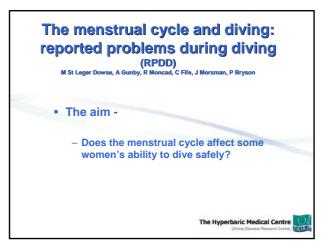




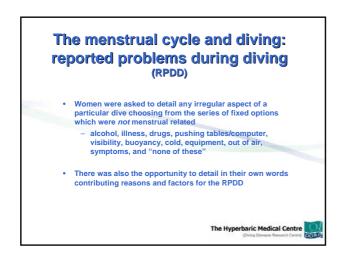
Men & Women in Diving		
years of experience	males	females
>26	0.01	0.01
<25	0.05	0.02
<20	0.06	0.02
<15	0.09	0.03
<10	0.24	0.09
<5	1.16	0.45
<2	10.52	4.09
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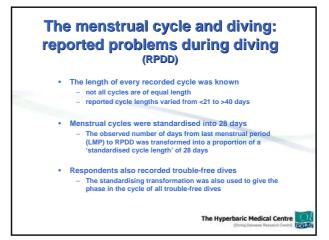


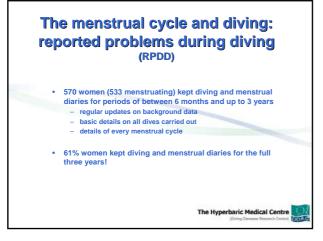




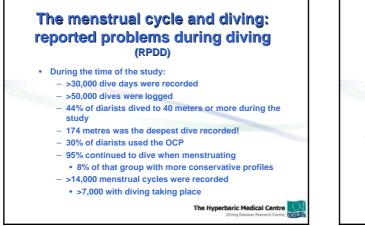




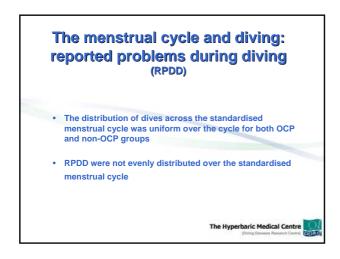


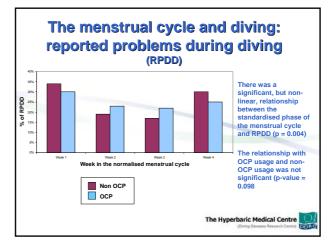


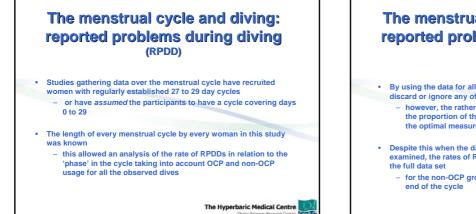




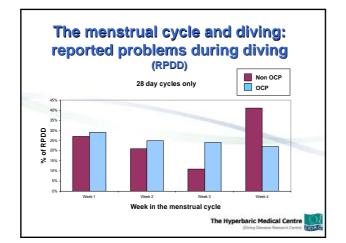




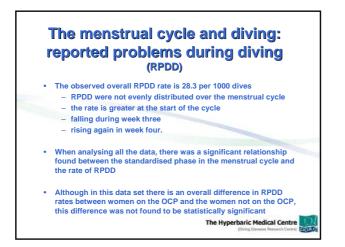


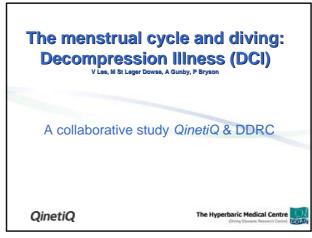


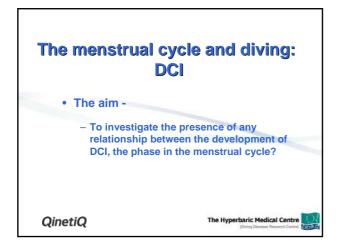


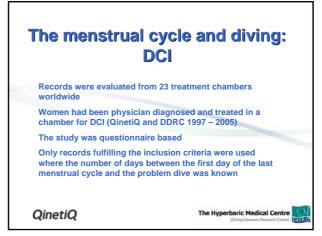




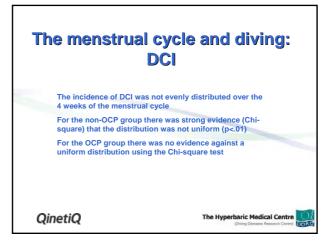


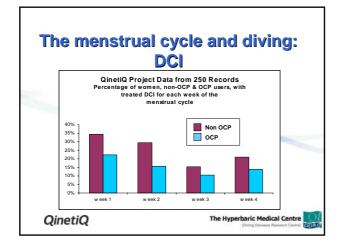


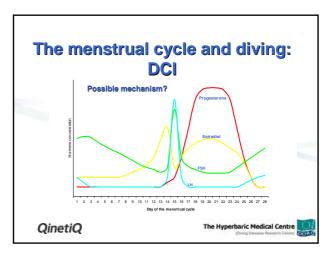


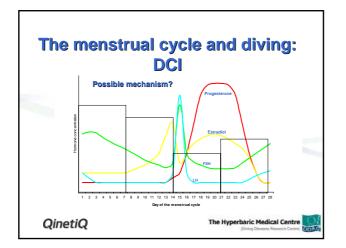


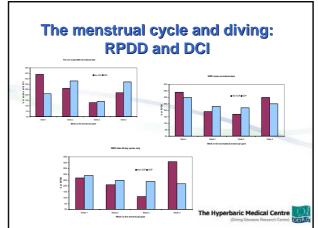












The literature & conclusions Dixon GA, Krutz RW, Fischer MS. All 5/30 female subjects with Decompression Sickness and Bubble Formation in Females Exposed to a Simulated 7.8 PSIA Suit Environment. Aviat Space Environ Med 1985;59:1146-1149.

Dunford RG, Hampson NB. Gender-Related Risk of Decompression Sickness in Hyperbaric Chamber Inside Attendants: A Case Control Study. Undersea Biomed Res (Suppl) 1992;19:(41)37.

 Rudge FW.
 Significant inverse linear correlation

 Relationship of Menstrual History to Altitude
 between number of days since start

 Chamber Decompression Sickness. Aviat Space
 of LMP and DCS incident, highest

 Environ Med. 1990 Jul;61(7):657-659.
 risk at the beginning of a 28 day

 cycle. 81 retrospective records
 studied

Menses was a significant risk factor for inside chamber attendants, but not for divers in open water. This study was based on small numbers, 9 in total.





Lee V. St Leger Dowse M. Edge C. Gunby A. Bryson P. Decompression Sickness in Women: A Possible Relationship with the Menstrual Cycle. Aviat Space Environ Med. 2003 74 1177-1182.

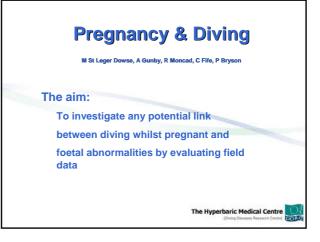
Webb T, Kannan N, Pilmanis A. Gender Not a Factor for Altitude Decompression Sickness Risk. *Aviat Space Environ Med.* 2003 Jan;74(1):2-10

Suggested the risk of DCS may be dependent on the phase of the menstrual cycle with greatest risk of DCS, in the ono-OCP group, being in the 1st week of a 28 day cycle, the lowest risk being in week 3. 150 prospective records

Data from the non-ocp women agreed with Dunford, Krause, Lee, & Rudge, showing a reduction in susceptibility from week one through week four of the menstrual cycle. 70 women, 269 altitude exposures

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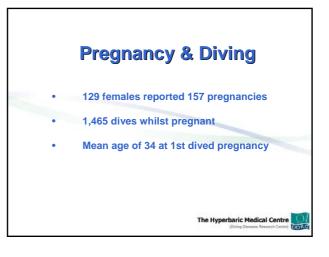




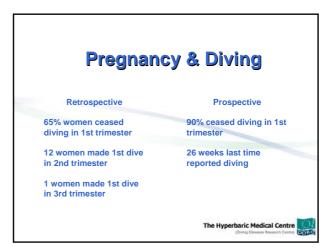
Pregnancy & Diving Animal studies: Conflicting and contradictory in their findings May not be relevant to the human situation

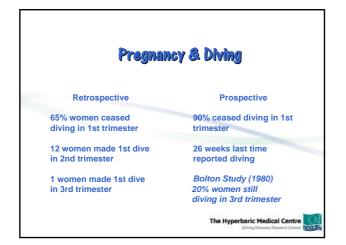
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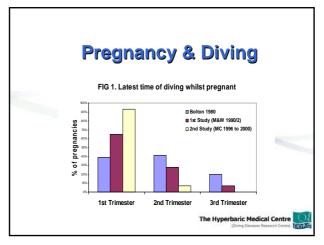
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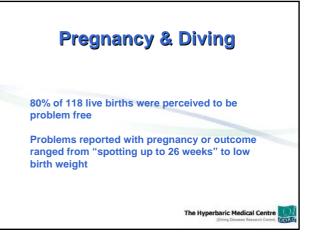
















Pregnancy & Diving Pregnancy & Diving Case 4 reported that her baby had a seizure at three days old a blood infection was suspected The baby was full term and weighed 10lbs 10ozs She reported 8 dives, 2 greater than 20 metres in the first trimester Case 3 reported that she felt extremely ill during diving She drank alcohol, 1 unit a day in the first trimester and After continuing to feel unwell during the pregnancy it thereafter 3 units per day 4 days a week was decided to terminate the pregnancy at 18 weeks she also admitted to "occasional hashish" whilst pregnant It was found that although the placenta appeared to indicate a pregnancy of 18 weeks, the foetus showed a size of 8-10 weeks Case 5 was an active horse-back rider until the sixth month The respondent was also a sky diver and in the first 6 weeks of her pregnancy, when she went into labour at 33 weeks of pregnancy had been to an altitude of 10,000 feet at least 6 times The baby weighed 3lbs 4oz She had dived to no more than 10 to 12 metres Her 10 dives took place in the 15 to 20 metres range up to week 20 It was concluded that the placenta had torn away, resulting in premature labour, following a fall from a horse She did not drink alcohol or smoke during pregnancy The Hyperbaric Medical Centre The Hyperbaric Medical Centre









