

2010 年國際狂犬病預防與控制研討會 成果回顧

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加強狂犬病宣導杜絕狂犬病入侵

臺灣目前雖為狂犬病非疫區，但我國鄰近之中國、東南亞、韓國等地，其狂犬病疫情有日趨嚴重之傾向，且近年來國際交通往來密切，非法走私動物及其產品之行為防不勝防，而我國與中國大陸兩岸開放小三通之後，交通更是頻繁，使狂犬病入侵我國之風險大為提高，根據世界衛生組織之資料，大陸地區每年均有數百人死於狂犬病，近 5 年感染人數持續上升；據中國衛生部公佈，近年中國大陸之狂犬病疫情逐年上升，病例數高居全球第 2 位，僅次於印度，2004 至 2006 年各通報 2,651、2,537 和 3,279 例，3 年總計 8,403 例死亡，占總死亡數的 30.1%，高居 37 種法定傳染病之首。2007 年截至 10 月底共通報 2,717 例，其中 2,532 例死亡，較前年同期（2,653 例）增加 2.41%，總計 23 個省發生病例，其中以廣西、貴州、四川、湖南和廣東省之疫情最為嚴重。因此，為防杜絕狂犬病入侵我國，除積極防範非法走私動物及其產品之行為與嚴格控管流浪狗且減少其族群之擴張外，仍應藉由宣導與教育強化全民對此疾病之認識，並定期對自己飼養之家犬注射狂犬病疫苗，才能降低狂犬病入侵之風險。

加強國際交流合作分享研究成果及狂犬病預防與控制上的經驗

本所於 99 年 12 月間邀請美國、澳洲、日本、印尼、菲律賓等各國，計有 Dr. Charles, Edward Rupprecht, Dr. Xianfu Wu, Dr. Wun-Ju Shieh, Dr. Michael Pennay, Dr. Janine Barrett, Dr. Satoshi Inoue, Dr. Dewa Made Ngurah Dharma, Dr. Mary Elizabeth Miranda 等 8 位專家來臺灣指導有關狂犬病預防與控制相關議題及實驗室診斷及監測，並與本所、防檢局、臺灣蝙蝠協會等業務相關人員進行交流，並於 12 月 7-8 日兩天在本所舉開「2010 年狂犬

病預防與控制研討會」國際會議，與會對象包含我國執行動物疾病診斷業務之公務獸醫師、疾病管制局、防檢局等，參與人數共計達 150 人以上，透過經驗交流提升實驗室研究人員及與會學員對狂犬病之認知以及執行業務之能力，並進一步瞭解狂犬病預防與控制之重要性。

國內狂犬病監測現況

狂犬病係由麗莎病毒 (Lyssavirus) 引起之急性病毒性疾病，所有溫血脊椎動物均具有感受性，動物經由患病動物咬傷或黏膜接觸等途徑而感染。我國於 1961 年後便無動物感染病例，並自 1999 年開始進行本病之監測。另美、澳及歐洲等國家鑑於蝙蝠可傳播麗莎病毒、亨德拉病毒和立百病毒等疫病，均已將其納入監測及防疫重點。國內雖無前述疾病報告，但蝙蝠保有病原之相關文獻較少，且蝙蝠可經由遷徙將疾病帶入國內，故國際專家建議我國對境內蝙蝠進行麗莎病毒、西尼羅病毒等重要人畜共通傳染病病原之監測，以強化人畜共通傳染病監測體系並提供後續研究參考。本所現階段針對蝙蝠之狂犬病病毒或其他麗莎病毒持續進行監測，截至 2010 年 (如表 1)，經組織病理學檢查與直接免疫螢光染色結果皆無狂犬病特徵性病變與病毒抗原，臺灣至今仍為狂犬病非疫區。

加強民眾對狂犬病及蝙蝠之認識

因應近年來國際交通往來密切，與會專家建議臺灣應加強宣導與教育，請民眾勿走私或輸入野生動物，政府加強把關嚴格管控輸入野生動物，尤其是自疫區輸入野生動物，狂犬病潛伏期可達數年之久，臺灣不應該冒此風險。另加強民眾認識狂犬病及宣導蝙蝠可能帶有人畜共通傳染病，讓民眾不輕易接觸蝙蝠，對狂犬病及蝙蝠有正確的認知。不過，國際專家表示，民眾也不需過度恐慌，憑藉著建立犬及蝙蝠咬傷處理與通報機制，可讓民眾及醫師重視犬及蝙蝠咬傷處理。另依據 OIE 規定進行狂犬病研究、診斷、接觸或暴露在蝙蝠環境中實施接觸前預防 (Pre-exposure prophylaxis, PREP)，甚至有感染疑慮應額外施打免疫球蛋白，皆能預防狂犬病的感染及疾病發生。

國際組織見證臺灣在狂犬病防治上的努力

在農委會及防檢局的大力支持、國際專家的共襄盛舉以及同仁的努力之下，本所幾乎年年舉辦狂犬病及其他重要人畜共通傳染病國際研討會，2010 年甚至一舉邀請多達 6 國的專家與會，可謂盛況空前。透過研討會與國際大師對談，逐步修正狂犬病的防治策略，並在診斷監測技術上持續進步、精益求精。臺灣多年來在狂犬病防治上默默耕耘與付出，終於開出甜美的果實，本次研討會以及中華民國獸醫師公會全國聯合會舉辦的「單車守護行暨狂犬病防治宣導活動」分別受到世界狂犬病控制聯盟（Global Alliance for Rabies Control）及 2010 世界狂犬病日（World Rabies Day）等國際組織發行之電子期刊的重視並報導之（圖 3 及圖 4），不僅增加臺灣在世界的能見度，更有助於我國國際地位的提升。



圖 1、2010 年狂犬病預防與控制研討會參與人員合照。



圖 2、邀請國際狂犬病專家，由左分別為 Dr. Michael Pennay、Dr. Janine Barrett、Dr. Dewa Made Ngunrah Dharma、Dr. Satoshi Inoue、Dr. Xian-fu Wu、Dr. Charles Edward Rupprecht、鄭秀蓮副所長、謝文儒博士、Dr. Mary Elizabeth Gutierrez Miranda 及李淑慧組長。

Taiwan Rabies Prevention and Control Conference 2010

The Taiwan Animal Health Research Institute, Council of Agriculture, organized the Taiwan Rabies Prevention and Control Conference 2010 in Tansui, Taipei County on 6-10 December 2010 with the objective of exchanging information on rabies control and recent research progress on lyssavirus as well as exploring the possibility of closer cooperation with the international community to eliminate human and animal rabies.

National and international speakers from 6 countries, Australia, Indonesia, Japan, Philippines, USA and Taiwan presented recent information and developments in rabies control, surveillance and research. More than 200 participants including government and private veterinarians, physicians, biologists, academicians, researchers and scientists attended the occasion. Represented were a number of institutions, including Department of International Affairs of the Council of Agriculture, Bureau of Animal and Plant Health Inspection and Quarantine, Taiwan Centers for Disease Control, National Taiwan University, Taiwan Veterinary Medical Association, Bat Association of Taiwan and the private sector. This was an important opportunity to bring together the Taiwanese scientific community to advocate and maintain the awareness about rabies prevention and the significance of keeping rabies out of Taiwan.

Taiwan has been free of rabies for more than 50 years. There has been no indigenous human case since 1959 and no animal case since 1961. It is very important for rabies-free countries like Taiwan to remain vigilant against the re-introduction of rabies and cooperate with neighboring countries especially as rabies is still endemic around it.

Contributed by Dr. Shu-Hwae Lee, Head of the Division of Epidemiology Research, Animal Health Research Institute in Taiwan & Betsy Miranda, Asian Coordinator for the Alliance.



The Alliance is a registered charity in the UK and a 501(c)(3) organization in the US

www.rabiescontrol.net

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圖 3、2010 年狂犬病預防與控制研討會獲得世界狂犬病控制聯盟（Global Alliance for Rabies Control）發行期刊專題報導，增加我國國際能見度。

WORLD RABIES DAY OUTCOMES 2010

VETERINARY OUTREACH
Vaccination clinics on World Rabies Day are the most effective way to raise awareness, prevent disease and promote responsible animal ownership. To support these efforts, the WRD Team released a rabies vaccination clinic toolkit and provided online educational materials for students across the globe. Support from our partners allowed us to send educational material to 10,000 veterinary clinics. The toolkit is available at www.worldrabiesday.org.

CROSS-SECTOR COLLABORATION
Events in 2010 have confirmed that partnerships between governments, local communities, volunteers and the private sector are pivotal to successful vaccination campaigns and sustainable rabies prevention programs. Since 2007, World Rabies Day has provided a focus for the vaccination of more than 4.6 million animals, not just dogs and cats, but also livestock that provide food and serve as the mode of transportation for so many people.





Image credits: Upper - Taiwan - Dr. Andrea Fei, Center - USA - Melissa D. Mason, Lower - Russia - Dr. Arzum Melnik

LIFE-SAVING EDUCATION
Rabies education saves lives. The World Rabies Day team has built an extensive library of freely downloadable educational materials in over 20 languages. Awareness is the best defense against rabies and these resources have become essential in providing much needed life-saving information. Also included are modules for children so they can become the future of rabies prevention. Over 96% of the respondents to our 2010 survey indicated that rabies education is saving lives in their community.

CALL FOR ACTION
You have told us overwhelmingly that World Rabies Day is making a difference. Help us make the fifth anniversary on September 28, 2011 the best ever World Rabies Day, and please keep sending us information and photos for our websites all year round!

Help us continue to change the world for those living at daily risk of dying of rabies by making a donation at www.worldrabiesday.org. Your financial gift of support will ensure that educational materials reach the people that need it most and each donation you make will help to save lives. Rabies is 100% preventable and no one needs to die of this most deadly and yet preventable disease.



"World Rabies Day is an initiative of the Global Alliance for Rabies Control"

WORLD RABIES DAY 2010 OUTCOMES




圖 4、中華民國獸醫師公會全國聯合會舉辦的「單車守護行暨狂犬病防治宣導活動」獲得 2010 世界狂犬病日 (World Rabies Day) 刊物報導。

表 1、本所 1999 年至 2010 年犬腦組織狂犬病監測數量統計

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	合計
家犬	29	2	27	3	6	9	3	3	0	0	0	0	82
流浪犬	5	10	1	53	68	79	92	195	108	1,478	1,480	1,134	4,703
走私動物	0	0	0	0	0	2	23	15	28	2	0	0	70
合計	34	12	28	56	74	90	118	213	136	1,480	1,480	1,134	4,855

註：歷年監測結果皆無狂犬病特徵性病變及病毒抗原。

