

圈養新生灰狼(*Canis lupus*)成長與行為發展

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摘要：臺北市立動物園圈養的雌性灰狼，於 2003 年 5 月 9 日產下兩隻健康情況良好的幼狼。本研究係運用監視錄影設備，以 24 小時連續拍攝方式，記錄幼狼出生後 6 週內的行為，以剖析其行為發展模式。研究結果顯示，雄幼狼在發育過程中，體重與體長皆略大於雌幼狼；出生後每日的 0800~1000 hr 為其吮乳的低峰期，並於幼狼 10 日齡時觀察到首次肉食行為，此兩種行為隨著成長，幼狼逐漸由被動轉呈主動角色。而每日休息的時間比例則逐漸降低，在 33 日齡後漸趨穩定，介於 55~65% 之間；個體移動與互動行為的強度與多樣性則明顯增加，推測上述行為發展受個體牙齒、骨骼、消化系統發育程度所影響，從而亦與個體在狼群社會中的角色建構有密切關係。此外，將首次進行的監視錄影與傳統現場觀察方法比較，確可獲知監視錄影是值得運用於圈養動物的研究方法！

關鍵詞：圈養、灰狼、行為、幼狼、監視錄影

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Growth and Behavioral Development of Gray Wolf (*Canis lupus*) New Borns in Captivity

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ABSTRACT : A 24-hour monitoring program was applied to study the behavioral development of two gray wolf pups born on May 9th, 2003 at the Taipei Zoo. The first 6 weeks of newborns were observed using the instant scan sampling method. Our results showed that the pups were inactive in milk taking behavior from 0800 to 1000 AM, and their meat hunt behavior was first recorded at the tenth day after their birth. Both milk taking and meat hunt behavior were relatively passive during the early development stage with the accumulated observation time scales. As the resting time of pups decreased, however, the strength of movements and interactions between pups, and the diversity of behavior types increased significantly. We speculate that the behaviors of wolf pups were partly influenced by the development of their skeleton and digestive systems, and may contribute to their future roles in the colony. Besides, comparison of monitoring program by video and traditional observation method, we could conclude that the monitoring program is indeed a feasible study method for especially captive wildlife.

KEY WORDS : captive, gray wolf, pups, behavior development, monitoring program

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