

Table S1 Number of non hatched and hatched eggs per each treatment.

Treatment	Non Hatched	Hatched	Total	% Hatched
Control	59	123	182	67.58
T2	13	43	56	76.78
T4	29	41	70	58.57
T8	24	45	69	65.21
Non injected	14	219	233	93.99

Table S2 Initial mixed models for tarsus length, body mass, body condition and gape width of spotless starling on nestling period. Nonsignificant variables were removed from the model based on stepwise selection by *p*-values criterion (*p* < 0.05, corresponding to the numbers in bold).

Independent variable	Tarsus length			Body mass			Body condition			Gape width		
	d.f.	F	P	d.f.	F	P	d.f.	F	P	d.f.	F	P
Treat	1/560	0.88	0.3496	1/566	0.02	0.8987	1/589	0.34	0.5623	1/591	10.83	0.0011
Treat ²	1/585	0.69	0.4061	1/584	0.73	0.3946	1/565	3.76	0.0530	1/560	0.22	0.6407
Treat ² × Age [days]	3/538	4.94	0.0022	3/539	4.17	0.0062	3/545	1.68	0.1699	3/536	0.92	0.4297
Treat ² × Sex	1/580	0.31	0.5796	1/582	0.62	0.4309	1/573	0.32	0.5736	1/580	0.76	0.3832
Treat ² × Sex × Age [days]	3/530	0.13	0.9411	3/531	0.06	0.9796	3/532	0.40	0.7508	3/529	0.02	0.9962
Trt × Age [days]	3/538	2.30	0.0761	3/539	2.08	0.1020	3/548	1.45	0.2271	3/541	0.11	0.9540
Trt × Sex × Age [days]	3/533	0.20	0.8960	3/534	0.15	0.9307	3/535	0.43	0.7292	3/532	1.65	0.1760
Age [days]	3/538	3257.40	<0.001	3/539	1662.52	<0.001	3/551	0.00	0.9997	3/548	924.72	<0.001
Sex	1/575	10.99	0.0010	1/577	15.74	<0.001	1/588	0.56	0.4537	1/596	9.98	0.0017
Trt × Sex	1/573	0.52	0.4717	1/576	0.69	0.4050	1/587	0.20	0.6553	1/586	0.04	0.8420
Sex × Age [days]	3/538	5.68	<0.001	3/539	7.46	<0.001	3/539	0.01	0.9983	3/547	2.43	0.0640
Clutch laying date	1/130	26.65	<0.001	1/119	1.84	0.1771	1/89.6	13.96	0.0003	1/88.4	15.55	<0.001
Egg volume	1/261	5.41	0.0208	1/233	9.26	0.0026	1/140	9.77	0.0022	1/149	0.53	0.4674
Laying order	1/571	95.01	<0.001	1/574	90.77	<0.001	1/600	18.40	<0.001	1/592	1.38	0.2402
EDP	1/422	20.84	<0.001	1/418	13.11	<0.001	1/254	0.66	0.4171	1/250	3.97	0.0474
Brood size	1/582	3.65	0.0566	1/583	10.87	0.0010	1/591	1.17	0.2794	1/590	9.86	0.0018
Tarsus length	—	—	—	—	—	—	—	—	—	1/588	71.74	<0.001

Table S3. Summary of final repeated-measures mixed models showing the estimates and standard error (estimate \pm SE) of all the variables affecting tarsus length, body mass, body condition and gape width of nestlings. Models were run using Proc Mixed with Satterthwaite correction to adjust the degrees of freedom. Age was measured in days (3, 6, 10 and 14).

Independent variable	Tarsus length	Body mass	Body condition	Gape width
	Estimate \pm SE	Estimate \pm SE	Estimate \pm SE	Estimate \pm SE
Intercept	29.958 \pm 0.224	72.161 \pm 0.979	-0.1610 \pm 0.095	23.235 \pm 0.139
Treat	0.156 \pm 0.075	0.307 \pm 0.335	-0.0175 \pm 0.030	0.0829 \pm 0.025
Age [3]	-18.709 \pm 0.245	-58.865 \pm 1.099	—	-3.645 \pm 0.128
Age [6]	-11.520 \pm 0.242	-39.906 \pm 1.086	—	1.517 \pm 0.128
Age [10]	-2.219 \pm 0.242	-8.824 \pm 1.086	—	2.713 \pm 0.128
Treat \times Age [3]	-0.212 \pm 0.103	-0.585 \pm 0.465	—	—
Treat \times Age [6]	-0.214 \pm 0.103	-0.775 \pm 0.463	—	—
Treat \times Age [10]	-0.0476 \pm 0.103	0.224 \pm 0.463	—	—
Sex (Males)	0.864 \pm 0.185	4.571 \pm 0.831	—	0.327 \pm 0.104
Age [3] \times Sex (Males)	-0.994 \pm 0.252	-5.051 \pm 1.130	—	—
Age [6] \times Sex (Males)	-0.686 \pm 0.250	-3.748 \pm 1.124	—	—
Age [10] \times Sex (Males)	-0.393 \pm 0.250	-2.097 \pm 1.124	—	—
Treat ²	-0.0916 \pm 0.034	-0.0792 \pm 0.152	0.0292 \pm 0.015	—
Treat ² \times Age [3]	0.119 \pm 0.045	0.309 \pm 0.202	—	—
Treat ² \times Age [6]	0.148 \pm 0.044	0.477 \pm 0.200	—	—
Treat ² \times Age [10]	0.0313 \pm 0.044	-0.161 \pm 0.200	—	—
Clutch laying date	0.278 \pm 0.054	—	-0.1210 \pm 0.032	-0.177 \pm 0.045
Egg volume	0.112 \pm 0.048	0.643 \pm 0.211	0.0959 \pm 0.031	—
Laying order	-0.251 \pm 0.026	-1.099 \pm 0.115	-0.0823 \pm 0.019	—
EDP	-0.184 \pm 0.040	-0.644 \pm 0.177	—	0.075 \pm 0.037
Brood size	-0.0725 \pm 0.038	-0.559 \pm 0.169	—	0.117 \pm 0.037
Tarsus length	—	—	—	0.258 \pm 0.030