Hatchery Talks 3 Tips to minimize the impact of prolonged hatching egg storage

#### Hatchery Talks

### Before we start ...

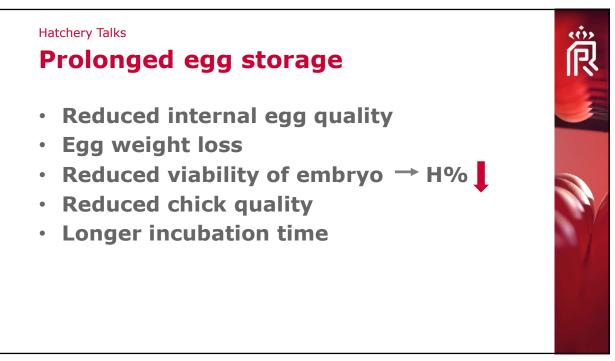
- Polls
- Questions

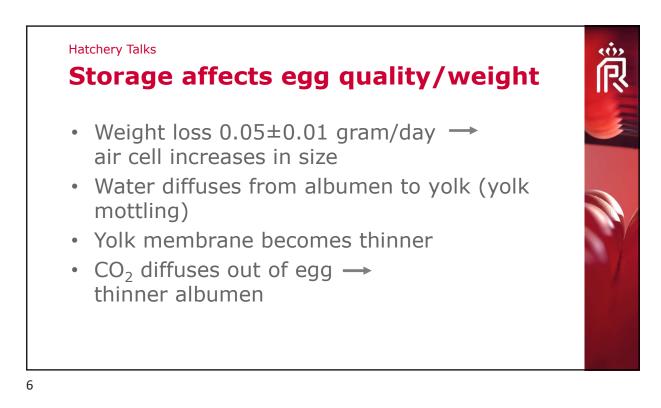




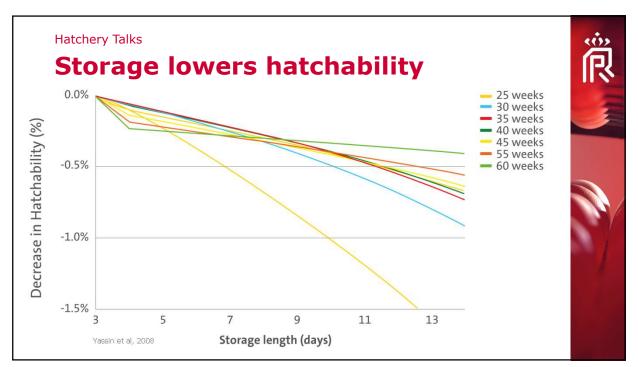








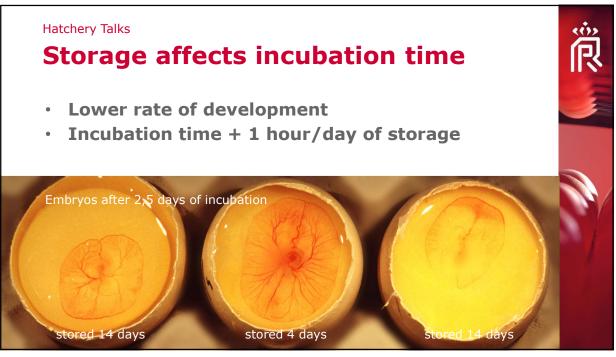
## Poll Storing hatching eggs for max. 7 days under good conditions does not have any negative effects on hatchability and chick quality



Pasgar©Score, espe		
Storage duration (days)	Pasgar©Score mean (n)	
3	9.4 (27)	
11	8.9 (29)	



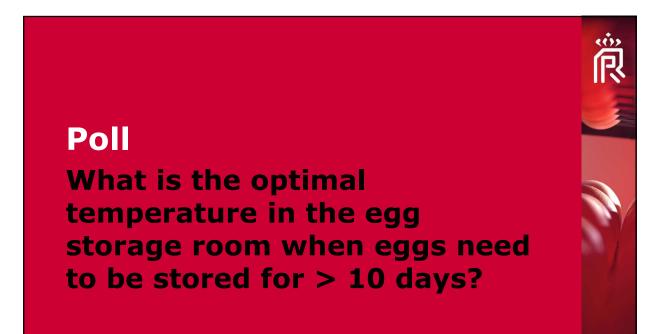




Hatchery Talks Storage affects incul	bation t	ime	Ř
<ul> <li>Lower rate of development</li> <li>Incubation time + 1 hour/day of storage</li> </ul>			6
Storage time	3 days	18 days	
Duration from setting to internal pipping	468 hrs	477 hrs	
Duration of internal pipping till emergence	17.8 hrs	24.7 hrs	
Ref. Tona et al. (2003). Poultry Science 82: 736			

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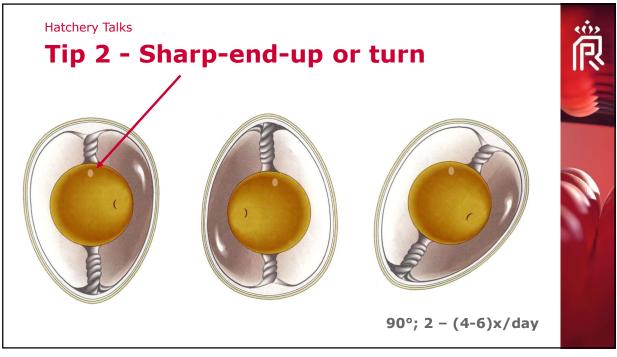
## Hatchery Talks Tip 1 - Optimal storage conditions

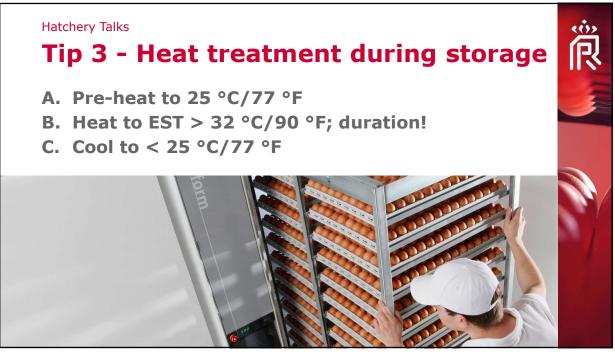
Storage duration (days)	Temperature (∘C/∘F)	Humidity (%)	Egg orientation	
0 - 3	18 - 21 / 64.4 - 69.8	75 - 85	Blunt end up	
4 - 7	15 - 17 / 59.0 - 62.8	75 - 85	Blunt end up	
8 - 10	12 - 14 / 53.6 - 57.2	80 - 85	Blunt end up	
> 10	12 - 14 / 53.6 - 57.2	80 - 85	Sharp-end-up or turning 2 (4-6) x per day	

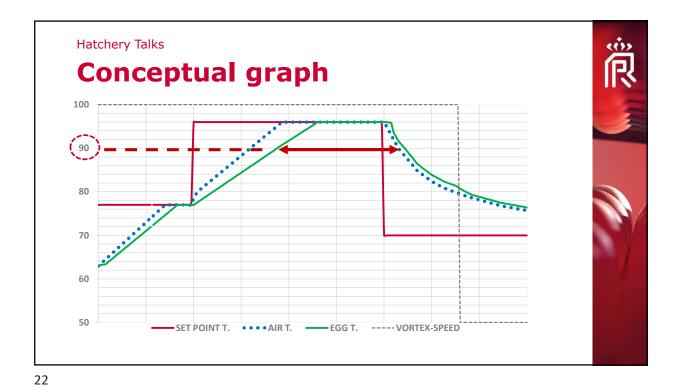




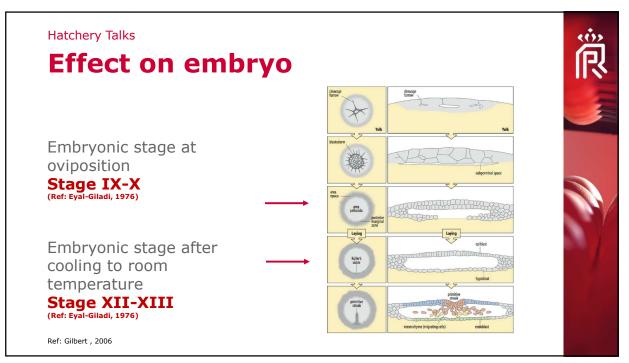
Hatchery <b>`Swe</b>	Talks Cating'				Ř
Eggs will sweat if RH% outside the storage room is higher than:					
Temperature storage room <sup>1</sup>					
	19°C/66.2°F	21°C/69.8°F	23°C/73.4 °F	25°C/77.0 °F	
21°C/69.8°F			> 88%	>78%	
18°C/64.4°F	> 94%	> 83%	> 73%	> 65%	
16°C/60.8°F	> 82%	> 73%	> 64%	> 57%	
14°C/57.2°F	> 72%	> 64%	> 56%	> 50%	
12°C/53.6°F	> 63%	> 56%	> 50%	> 44%	
<sup>1</sup> Assumption: egg temperature = temperature of egg storage room					



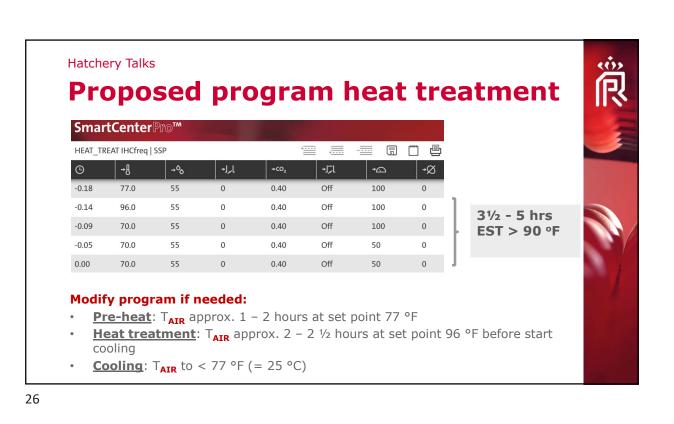




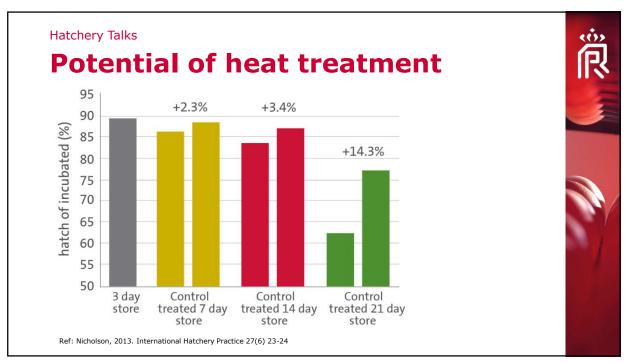


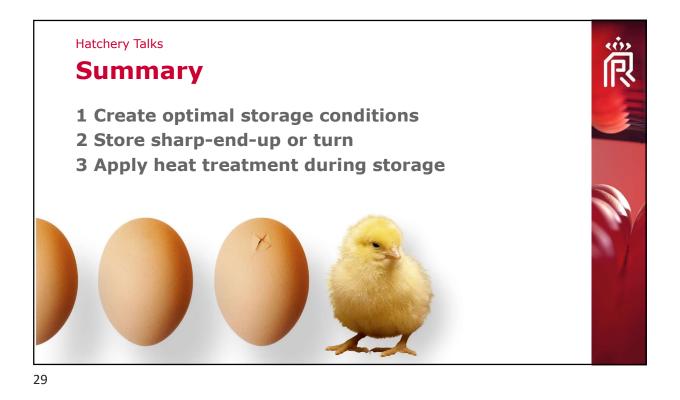














# When eventually setting long stored eggs

- Prevent 'sweating'
- Longer preheating
- Set earlier
- Increase turning frequency
- Expect reduced hatchability



