

# POST-HARVEST DISEASES OF POMEGRANATE IN SOUTH AFRICA

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## Diseases develop in orchard – originate in orchard

### *Alternaria spot*



Dark spots develop on fruit and leaves  
Symptoms limited to fruit surface  
Control  
Orchard treatment  
Orchard sanitation

### *Bacterial blight*



Systemic infection in trees  
Diseases can spread from tree to tree in humid conditions and through pruning  
Control  
Clean propagating material  
Orchard sanitation

### *Botryosphaeria sp.*



Systemic infection in trees  
Diseases can spread from tree to tree in humid conditions and through pruning  
Control  
Orchard sanitation  
Orchard treatment

### *Elsinoë punicea*



Also known as scab  
Spores spread from tree to tree in humid conditions and through pruning  
Control  
Orchard sanitation  
Orchard treatment

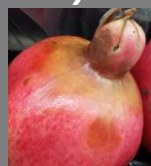
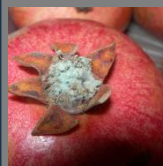
## Diseases develop during storage – originate in orchard

### *Alternaria alternata*



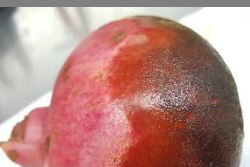
Also known as Black Heart Disease  
Infection initiated during flowering  
Not easily visible symptoms externally on fruit  
Control : Orchard treatment / Orchard sanitation

### *Botrytis cinerea*



Also known as Crown rot  
Can spread to adjacent fruit in packed cartons  
Control  
Pre- and post-harvest treatments

### *Coniella granati*



Latent/Systemic tree infection  
Spores can spread from fruit to fruit during handling and storage

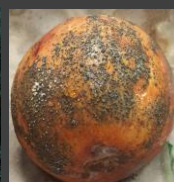
Control  
Orchard sanitation  
Post harvest fruit treatment



### *Cytospora punicea*

Latent /Systemic infection in trees  
Spores spread between trees through water or pruning . Mummified fruit on the orchard floor is inoculum

Control  
Orchard sanitation



## Diseases develop in storage - Typical wound pathogens

### *Penicillium spp.*



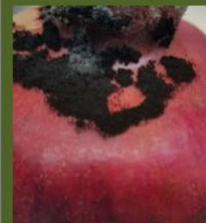
Primarily a wound or secondary pathogen  
Can spread to adjacent fruit in packed cartons  
Control  
Avoid fruit damage during harvest and packing  
Post-harvest treatments

### *Rhizopus*



Also known as Black bread mould  
Acts mostly as saprophyte on dead tissue  
Control  
Avoid fruit damage  
Post-harvest treatments

### *Aspergillus niger*



Also known as Black mould  
Could occur also inside fruit following orchard infection  
Control  
Avoid fruit damage  
Post-harvest treatments